GLOBAL COMPRESSOR CATALOG



WWW.TECUMSEH.COM



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WELCOME TO TECUMSEH!

We created the world's first hermetic compressor for the commercial refrigeration industry in the 1930s and solidified our reputation as a pioneer of refrigeration solutions. Today, our offerings reach much farther than hermetic compressors.

We continue to invest in expanding our portfolio of technology to meet the ever-changing needs of our global customers. Our technologies include condensing units, complete refrigeration systems, rack systems and chillers for a wide variety of cooling and refrigeration applications including food-retail, medical, automotive and many more.

Although our product portfolio has expanded over time, compressors remain the core of our solutions. As our customers envision next-generation equipment with low energy consumption using low-GWP refrigerant, we continue to develop highly efficient, best-in-class compressors to meet their ever-growing needs.

Our latest compressor portfolio includes technology such as variable-capacity cooling and DC (Direct Current) powered mobile refrigeration and we have added new models optimized for A2L and A3 refrigerants such as R-290.

Our compressors of today look much different from the one we invented almost 90 years ago but what remains are high-quality, reliable compressors built with pride and passion by Tecumseh team members all over the world.

Thus, we are pleased to bring you the new Tecumseh Compressors General Catalog!



TECUMSEH HISTORY, LEGACY AND FUTURE

2021 — Launch VR², TCW OPT, A2L refrigerant, FLEXY, MASTERFLUX EV-BTMS, Condensing Unit Semi-Hermetic



2019 2020 — Launch infinee, Argus, InteliCOOL, Launch AL compressor, natural refrigerant



2018 — Launch of the PAC³ Rotary inverter VR²



2015 — Tecumseh acquired by Atlas and Mueller Industries

2010 — Launch of the AE² and TA compressors



2000 — Launch of MASTERFLUX product line.



1990 — Opening Tecumseh India



1934 — Founded by Raymond Herrick



1937 — Developed first hermetic compressor



1941 1945 — Artillery shells producer for allies at WW II



1947 — Supplied compressor for first window AC



1953 — Launch of the automotive compressor



1954 — L'unite hermetique foundation

L'UNITE HERMETIQUE®

1986 — Opening TDB Plant II in Brazil



PRODUCTS PORTFOLIO



APPLICATIONS



Application	Compressors Family																					
	Fixed Speed (VAC - voltage alternating current)															Inverter (VAC - voltage alternating current)		Inverter (VAC - voltage alternating current) (VDC – voltage direct current)				
	Reciprocating													Rotary		Reciprocating	Rotary	Reciprocating - Hermetic	Rotary			
	AZ	TH	TA	TC	AE[2]	AL	AK[2]	TY	AJ[2]	AW	FH/FH[2]	AG	SH	RG/RG[2]	HG	VTC*	VR[2]	CASCADE	MESA	ATLAS	HG	SIERRA
Displacement (cc)	2.23 to 5.91	2.39 to 8.21	2.72 to 12.47	1.83 to 10.87	4.24 to 15.09	15.09 to 19.95	15.63 to 25.68	16 to 26	15.20 to 34.50	30.56 to 68	39.60 to 68	90.20 to 145	4.74 to 286.82 (m³/h)	5.41 to 18.07	5.41 to 16.11	3.14 to 12.47	8.55 to 10.23	2.39 to 5.60	1.4 to 2.4	7.3	5.41 to 16.11	7.1 to 16.1
Displacement (in³)	0.14 to 0.36	0.15 to 0.50	0.17 to 0.77	0.11 to 0.67	0.26 to 0.93	0.93 to 1.22	0.95 to 1.57	0.98 to 1.60	0.93 to 2.12	1.88 to 4.17	2.43 to 4.17	5.54 to 8.90		0.33 to 1.11	0.33 to 0.99	0.19 to 0.77	0.52 to 0.63	0.15 to 0.34	0.08 to 0.15	0.44	0.33 to 0.99	0.43 to 0.98
1 - Celar wine cooler		✓	✓	✓	✓	✓	✓	✓	✓							✓						
2 - Water cooler	✓	✓		✓																		
3 - Chest freezer				✓	✓											✓						
4 - Household appliances fridges		✓	✓																			
5 - Cold room					✓	✓	✓	✓	✓	✓	✓	✓	✓									
6 - DC powered refrigerator																		✓				
7 - Dry and bakery showcase			✓	✓	✓											✓						
8 - Floral cooler				✓	✓	✓	✓									✓						
9 - Frozen island				✓	✓	✓	✓	✓	✓							✓						
10 - Glass door merchandiser				✓	✓											✓						
11 - Ice cream freezer				✓	✓											✓						
12 - Ice cream showcase				✓	✓	✓	✓		✓							✓						
13 - Ice machine				✓	✓	✓	✓	✓	✓							✓						
14 - Professional kitchen				✓	✓	✓	✓	✓	✓	✓	✓	✓				✓						
15 - Last mile delivery													✓						✓	✓	✓	✓
16 - Milk cooler					✓	✓	✓	✓	✓	✓	✓	✓	✓									
17 - Open air merchandiser					✓	✓	✓	✓	✓							✓						
18 - Reach in cooler freezer					✓	✓	✓	✓	✓													
19 - Scientific freezer		✓		✓	✓	✓	✓									✓						
20 - Sushi case		✓		✓												✓						
21 - Up right freezers		✓		✓												✓						
22 - Vending machine		✓		✓	✓											✓						
23 - Air Conditioning							✓	✓	✓	✓				✓	✓		✓					
24 - Heat Pump					✓				✓					✓	✓		✓					

Notes: summarized features and benefits.

*VTC inverter compressor equiped with Intellicool technology. Variable capacity, continuos learning, precise temperature control. Alarm and diagnosys local and remote.

**Masterflux variable speed compressor, suit for mobile and transport applications. Dual compressor configuration for increase capacity.

REFRIGERANT MATRIX BY PRODUCT

Refrigerant Application				Compressors Family																				
				Fixed Speed (VAC - voltage alternating current)															Inverter (VAC - voltage alternating current)		Inverter (VAC - voltage alternating current) (VDC – voltage direct current)				
				Reciprocating													Rotary		Reciprocating	Rotary	Reciprocating	Rotary			
Type		Classification (ASHRAE)	Refrigerant	AZ	TH	TA	TC	AE[2]	AL	AK[2]	TY	AJ[2]	AW	FH/FH[2]	AG	SH	RG/RG[2]	HG	VTC*	VR[2]*	CASCADE	MESA	ATLAS	HG	SIERRA
HFC	Pure Fluid	A1	R-134a	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓
HFO	Azeotrope	A1	R-513A					✓		✓		✓		✓	✓									✓	✓
HFO	Pure Fluid	A2L	R-1234yf					✓				✓		✓	✓		✓	✓					✓	✓	✓
HCFC	Zeotrope	A1	R-401A					✓																	
HCFC	N-Azeotrope	A1	R-404A		✓			✓		✓	✓	✓	✓	✓	✓	✓		✓						✓	✓
HFC	Zeotrope	A1	R-407C					✓				✓	✓		✓	✓	✓	✓							
HFO	Zeotrope	A1	R-448A					✓		✓		✓		✓	✓										
HFO	Zeotrope	A1	R-449A					✓		✓		✓		✓	✓										
HFO	Zeotrope	A1	R-452A					✓		✓		✓		✓	✓									✓	
HFO	Zeotrope	A2L	R-454C					✓				✓		✓	✓										
HFO	Zeotrope	A2L	R-455A					✓				✓		✓	✓										
HFC	N-Azeotrope	A1	R-410A														✓	✓		✓					
HCFC	Pure Fluid	A1	R-22					✓			✓	✓	✓		✓	✓	✓	✓							
HFC		A2L	R-32																	✓					
HC		A3	R-600a			✓																			
HC		A3	R-290				✓	✓	✓	✓		✓						✓	✓					✓	✓

Note:

*R-32 refrigerant in approval.

SCAN ME

For detailed information please scan QR Code.

Higher flammability	A3	B3
Lower flammbility	A2	B2
	A2L	
No flame propagation	A1	B1
	Lower toxicity	Higher toxicity

PRODUCTS CERTIFICATIONS

COMPRESSOR TYPE

Tecumseh compressors comply with EC harmonised standards and are certified by the following external organisations*:

*Your Tecumseh contact can provide you with an accurate list of the compressors that meet the above certifications.



NOMENCLATURE

A E	4	440	Y	AA	1A
AEA	4	440	Y	XA	
COMPRESSOR FAMILY (FIRST TWO DIGITS) / RELEASE VARIANT (THE THIRD DIGIT)	APPLICATION	FIRST DIGIT IS THE NUMBER OF DIGITS IN BTU/H CAPACITY / LAST TWO DIGITS ARE THE FIRST TWO DIGITS IN RATED BTU/H CAPACITY	REFRIGERANT	VOLTAGE	RELEASE VARIANT (North America)

AZ
TH
TA
TC
VTC
AE
AL
AK
TY
AJ
AW
FH
AG
RG
HG
VR

A = 1st
B = 2nd
C = 3rd
etc...

In this example (4) total digits, with the first two (40), or 4,000 Btu/h capacity

Primary Application Parameters

Evap Temperature	Rating Point	Motor Starting Torque
1. Low	-10°F (-23.3°C)	Low
2. Low	-10°F (-23.3°C)	High
3. High	+45°F (7.2°C)	Low
4. High	+45°F (7.2°C)	High
5. A/C & H/P	+45°F (7.2°C)	Low
9. Commercial	+20°F -6.7°C)	High
0. Commercial	+20°F (-6.7°C)	Low
W. L/MBP	-10°F (-23.3°C) / +20°F (-6.7°C)	Low
X. L/MBP	--10°F (-23.3°C) / 20°F (-6.7°C)	High

Primary Refrigerants*

B = R-410A
C = R-407C
E = R-22
U = R-290
W = R-22/R-407C
X = (CBP Models Only) R-404A, R-507, R-134a, R-22, R-407A, R-407F
Y = R-134a
Z = R-404A/R-507
M = R-600a
Y = R-134a, R-513A
A = R-401A
Z = R-404A, R-448A, R-449A, R-455A, R-452A
P = R-454C, R-455A
N = R-1234yf, R-134a

*Refrigerant by item numbers as shown.

Voltage Codes (V)

AA = 115/60/1
AB = 115/60/1; 90/50/1
CZ = 230/60/1; 208/50/1
DS = 115-127/60/1
ES = 220/60/1
FA = 208-230/60/3
FZ = 220-240/50/1
GS = 220/60/1; 220/50/1
KZ = 220/60/3; 220/50/3
NA = 208-230/60/1
TZ = 440/60/3; 400/50/3
VA = 265/60/1; 220-240/50/1
XA = 115/60/1; 100/50/1
XB = 230/60/1; 200/50/1
XC = 220-240/50/1
XD = 208-230/60/1; 200/50/1
XF = 208-230/60/3; 200-240/50/3
XG = 460/60/3; 380-420/50/3
XH = 575/60/3; 480-520/50/3
XN = 208-230/60/1; 200-220/50/1
XP = 220/60/1; 200/50/1
XT = 200-230/60/3; 200-220/50/3
XU = 100/60/1; 100/50/1
XV = 265/60/1

NOTE: For explanation of compressor families and codes, contact Tecumseh Products Company

Compressor Replacement Guides and Quick Selects

This document is NOT to be used as a drop-in replacement guide. The cross-reference (when available) is offered as a tool to help identify potential replacement options based on performance. Mounting and tubing connections are likely to differ from the original compressor. With use, system performance will most likely have changed from initial specifications. Careful review of current application requirements is essential. **IT IS THE RESPONSIBILITY OF THE SERVICE PERSON TO ASSURE THEY HAVE PURCHASED A REPLACEMENT PRODUCT WHICH MEETS THE NEED OF THE APPLICATION.** Failure to do so may result in misapplication requiring immediate or subsequent additional compressor replacement(s).

SERIAL LABEL

TYPE 1



REFERENCE	DESIGNATION
A	Voltage
B	Frequency
C	Phase number
D	Bill of material number
E	Refrigerant
F	Model number
G	Serial number
H	Maximum allowable pressure
I	Minimum and maximum temperature
J	Test pressure 1.1* Ps
K	Registration number of the notified body
L	Test date
M	Free volume

TYPE 2



REFERENCE	DESIGNATION
A	Compressor Model Code
B	Bill of Materials Code (BOM)
C	Serial Number
D	2D Code
E	Nominal Voltage and Frequency
F	LRA - Locked Rotor Current
G	Refrigerant

STANDARD OPERATING CONDITIONS

LBP (Domestic) | LBP | L/MBP

Operating conditions: ASHRAE

Evaporating: -23.3°C (-10°F)
Condensing: 54.4°C (130°F)
Return gas temp.: 32.2°C (90°F)
Superheat: 55.6K
Subcooling: 22.0K
Liquid: 32.2°C (90°F)

L/MBP | M/HBP

Operating conditions: ASHRAE

Evaporating: -6.7°C (20°F)
Condensing: 54.4°C (130°F)
Return gas temp.: 32.2°C (90°F)
Superheat: 55.6K
Subcooling: 22.2K
Liquid: 32.2°C (90°F)

M/HBP

Operating conditions: ASHRAE

Evaporating: 7.2°C (45°F)
Condensing: 54.5°C (130°F)
Return gas temp.: 35°C (95°F)
Superheat: 27.8K
Subcooling: 8.30K
Liquid: 46.1°C (115°F)

LBP (Domestic) | LBP | L/MBP

Operating conditions: STANDARD TE

Evaporating: -23.3°C (-10°F)
Condensing: 54.4°C (130°F)
Return gas temp.: 32°C (90°F)
Superheat: 55.3K
Subcooling: 22.5K
Liquid: 32°C (90°F)

M/HBP

Operating conditions: STANDARD TE

Evaporating: -6.7°C (20°F)
Condensing: 54.5 (130°F)
Return gas temp.: 4.4°C(40°F)
Superheat: 11.0K
Subcooling: 8.30K
Liquid: 46.1°C (115°F)

M/HBP | HBP (AC)

Operating conditions: STANDARD TE

Evaporating: 7.2°C (45°F)
Condensing: 54.5 (130°F)
Return gas temp.: 20°C (68°F)
Superheat: 11.0K
Subcooling: 0k
Liquid: 52.3°C (126°F)

LBP (Domestic)

Operating conditions: EN12900

Evaporating: -25°C (-13°F)
Condensing: 55°C (131°F)
Return gas temp.: 32°C (90°F)
Superheat: 57.0K
Subcooling: 0.0K
Liquid: 55°C (131°F)

LBP | L/MBP

Operating conditions: EN12900

Evaporating: -35°C (-31°F)
Condensing: 40°C (104°F)
Return gas temp.: 20°C (68°F)
Superheat: 55.0K
Subcooling: 0.0K
Liquid: 39.6°C (103°F)

L/MBP

Operating conditions: EN12900

Evaporating: -10°C (14°F)
Condensing: 40°C (104°F)
Return gas temp.: 20°C (68°F)
Superheat: 30.0K
Subcooling: 0.0K
Liquid: 40°C (104°F)

M/HBP | HBP

Operating conditions: EN12900

Evaporating: 5°C (41°F)
Condensing: 50°C (122°F)
Return gas temp.: 20°C (68°F)
Superheat: 15.0K
Subcooling: 0.0K
Liquid: 50°C (122°F)

M/HBP

Operating conditions: EN12900

Evaporating: -10°C (14°F)
Condensing: 45°C (113°F)
Return gas temp.: 20°C (68°F)
Superheat: 30.0K
Subcooling: 0.0K
Liquid: 45°C (113°F)

Notes:

LBP - Low Back Pressure
L/MBP - Low/Medium Back Pressure
MBP - Medium Back Pressure
M/HBP - Medium/High Back Pressure
HBP - High Back Pressure
STANDARD TE = STANDARD TECUMSEH EUROPE



CASE STUDIES



REFRIGERATION CABINET

HIGH TEMP. (HBP)

DESCRIPTION

Application: meat aging cabinet
Operating temperature: 2°C, 65% humidity
Ambient temperature: 20°C
Expansion: thermostatic expansion valve
Compressor model: CAJ4511N
Initial refrigerant: R-134a
Refrigerants tested: R-1234yf



OBJECTIVES

The manufacturer of the aging cabinets decided to use a low GWP refrigerant from 2019. R-1234yf was chosen logically as a follow-on from R-134a.

It was relevant to provide customers with more environmentally friendly solutions without compromising on cooling efficiency. The "go-to-green" choice made by the manufacturer met customer expectations.

RESULTS

The efficiency, cooling capacity and maintenance of temperature are similar to those of the previous generation of ageing cabinet. The decision made meets the quality and seriousness requirements of the company and its customers.

All of the models in the range now run on R-1234yf.

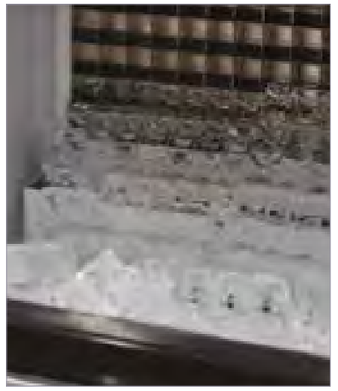
"Implementation of the R-1234yf refrigerant went smoothly, our customers are very satisfied and so are we," declared the cabinet manufacturer.

CONCLUSION

- The transition to this A2L fluid was very simple and there were no technical constraints
- R-1234yf: a reliable and efficient long-term choice for commercial cooling
- Customers like the cabinet manufacturer's environmentally friendly message

ICE CUBE MAKER

HIGH TEMP. (HBP)



DESCRIPTION

Application: ice cube maker, production of 320kg/day
Ambient temperature: 20°C
Water temperature: 15°C
Expansion: capillary tube
Compressor model: FH4532P
Initial refrigerant: R-452A
Refrigerants tested: R-454C and R-455A

TEST OBJECTIVES AND CONDITIONS

The application is first tested in factory configuration, charged with 950g of R-452A.

Objective of the test: Convert the application to A2L, R-454C or R-455A.

- **1st stage**: determination of the optimum refrigerant load
- **2nd stage:** performance of new tests under conditions identical to the initial test.

RESULTS

- Production of 323kg of ice cubes in original configuration, system loaded with R-452A
- Daily production identical with the 2 fluids tested R-454C and R-455A

	Refrigerant load (kg)	Ice cube production (kg/24h)	Energy consumed (Wh/kg)
R-452A	0.90	323	147
R-455A	0.82	322	147
R-454C	0.85	315	140
R-455A vs. R-452A	- 8.8%	=	=
R-454C vs. R-452A	- 5.5%	-2.4%	-4.7%

CONCLUSION

- Use of refrigerants R-454C and R-455A validated for this type of application
- Achievement of the same daily ice production regardless of the refrigerant selected

The same goes for the energy consumed per kilogram of ice formed

- The temperature glide of the fluids has no impact on the system's refrigeration performance despite the use of a capillary not optimised for these new refrigerants

REACH-IN CABINET

LOW TEMP. (LBP)



DESCRIPTION

Application:	freezer cabinet
Operating temperature:	-20°C
Ambient temperature:	30°C
Expansion:	thermostatic expansion
Compressor model:	AJ2464P
Initial refrigerant:	R-452A
Refrigerants tested:	R-454C and R-455A

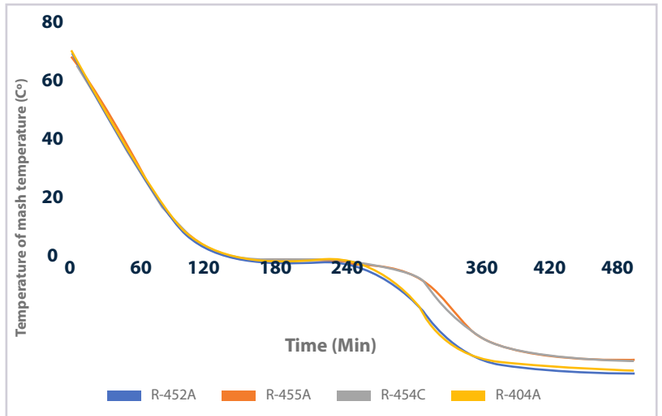
TEST OBJECTIVES AND CONDITIONS

The application is first tested in factory configuration, charged with 950g of R-404A.
Objective of the test: Convert the application to A2L, R-454C or R-455A.

- **Step 1:** determination of the optimum refrigerant load
- **Step 2:** performance of new tests under conditions identical to the initial test

RESULTS

- Similar drop in temperature before freezing for all fluids and identical behaviour in the stabilization phase regardless of the A2L refrigerant chosen
- 4% improvement of the COP with the new A2L refrigerants



CONCLUSION

- Use of refrigerants R-454C and R-455A validated for this type of application
- Drop and maintenance of core temperature of food respected with the use of A2L fluids

BAKER'S CABINET

HIGH TEMP. (HBP)



DESCRIPTION

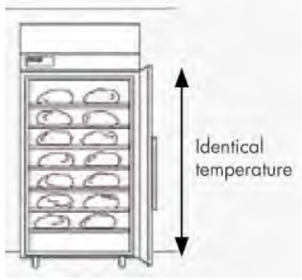
Application:	cabinet for storing dough
Operating temperature:	static temperature regime, 2°C
Ambient temperature:	20°C
Expansion:	thermostatic expansion valve
Compressor model:	AE4470P
Initial refrigerant:	R-404A
Refrigerants tested:	R-454C and R-455A

TEST OBJECTIVES AND CONDITIONS

The application is first tested in factory configuration, charged with 650g of R-404A.

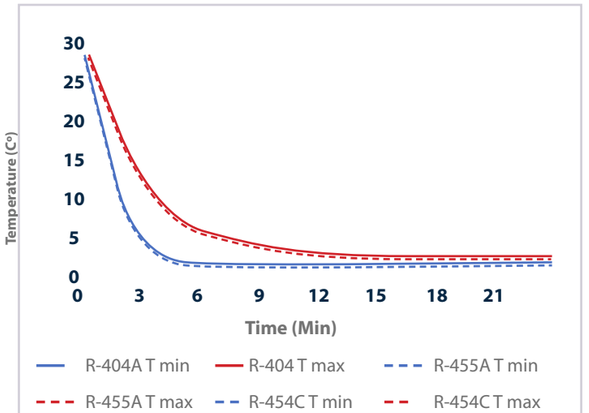
Objective of the test: Convert the application to A2L, R-454C or R-455A.

- **Step 1:** determination of the optimum load depending on the cooling capacity to be achieved
- **Step 2:** performance of new tests under conditions identical to the initial test



RESULTS

- The drop in temperature is the same regardless of the fluid selected
- Identical COP for the 3 refrigerants tested



CONCLUSION

- Use of refrigerants R-454C and R-455A validated for this type of application
- Thermostatic expansion enables adaptation to the properties of the A2L fluids

REACH-IN CABINET

LOW TEMP. (LBP)

DESCRIPTION

Application: Reach-in Cabinet
Operating temperature: Low temp.
Expansion: Capillary tube
Initial refrigerant: R-404A
Refrigerant tested: R-290

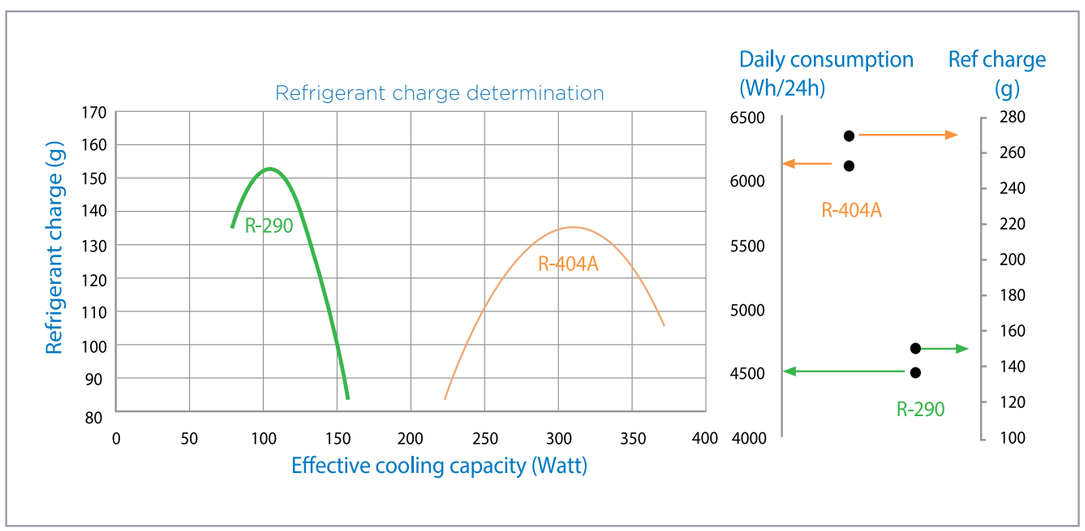
- Internal volume = 570l
- Measurements carried out with hermetic compressors

The cabinet was retrofitted-adapted to the R-290 refrigerant. The originally R-404A The capillary tube and the refrigerant charge are optimized.
Heat exchangers and the boiler are unchanged.

Thanks to the R-290 properties and to the compressor characteristics:

- The end user saves 26.3% of energy cost
- The cabinet cooling capacity and the pull down duration are unchanged
- The R-290 charge is 45% lower than the R-404A one thanks to its R-290 density





ICE MAKER MACHINE

HIGH TEMP. (HBP)

DESCRIPTION

Application: Ice maker machine
Operating temperature: 30°C/15°C (86°F/59°F) or 15°C/10°C (59°F/50°F)
Expansion: Capillary tube
Compressor model: TC4425U-GS
Initial refrigerant: R-404A
Refrigerant tested: R-290

- 24kg/day
- Measurements carried out with hermetic compressors at ambient air and water temperaturess 30°C/15°C (86°F/59°F) or 15°C/10°C (59°F/50°F)
- TC4425U-GS running R-290

The ice cube maker was retrofitted - adapted to the R-290 refrigerant. The originally R-404A competitor compressor is replaced by an optimized R-290 compressor: TC4425U-GS. The capillary tube and the refrigerant charge are optimized.

Heat exchangers are unchanged.

Thanks to the R-290 properties and to the compressor characteristics:

- The ice cube production increases by 6%
- The application energy consumption reduces by 4%
- The R-290 charge is 42% lower than R-404A thanks to its R-290 density

R-290 REFRIGERANT CHARGE	ICE PRODUCTION (kg/day)
59	19.8
68	20.7
73	21.2
78	20.5



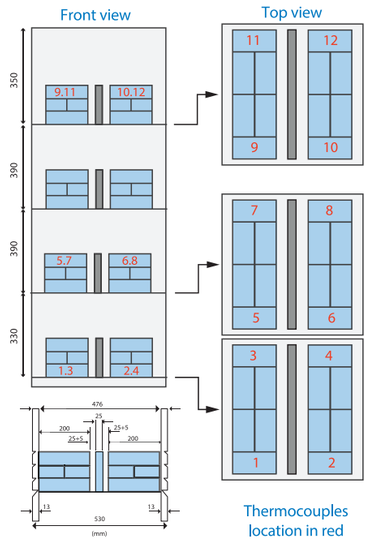
REACH IN

LOW TEMP. (L/MBP)

DESCRIPTION

Application: Reach in
Operating temperature: Low temp.
Expansion: Capillary tube
Compressor model: AEX433U-FZ
Refrigerant tested: R-290

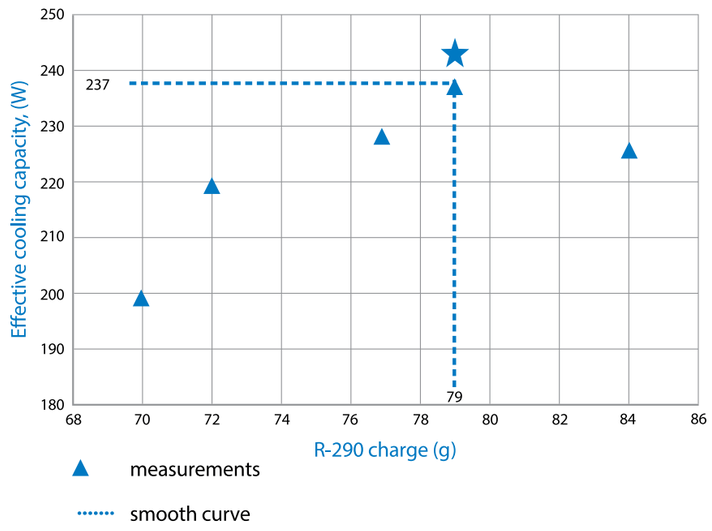
- Internal volume = 560l
- Measurements carried out with hermetic compressors
- R-290 compressor, model AEX433U-FZ



The originally R-290 competitor compressor is replaced by an optimized compressor: AEX433U-FZ. The capillary tube, the refrigerant charge, the heat exchangers and the boilers are unchanged.

Thanks to the new AEX compressor characteristics:

- The end user saves 3% of energy cost
- The cabinet cooling capacity and the pull down duration are unchanged





WINE CELLAR AIR CONDITIONERS

INVERTER

Tecumseh proposed to a leader in wine cellar air conditioners in Europe, to test a best-in-class variable speed solution with R-290 for its application. The built-in units are easily installed through the wall, providing in this way a conditioned cellar of up to 50m.

CHALLENGE

The application that was delivered to be tested in Tecumseh laboratory in La Verpillière, worked with a fixed speed compressor THB4428Z with R-449A. The main objective was to convert the application to eco-friendly refrigerant R-290, and Variable Speed, in order to have better cooling performance, to reduce energy consumption, to meet environment regulation; while maintaining the same condensation, evaporation and overheating temperatures.

SOLUTION

To do so, Tecumseh proposed to the customer various components from its Tecumseh IntelliCOOL™ Technology Platform. In order to select the right fit variable speed solution, and to get the optimal performances for the customer application, the test plan was the following:

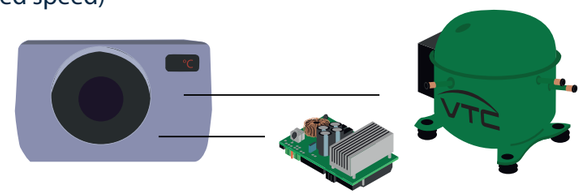
1- Benchmark and performance measurement of the unit delivered
2- Refrigerant R-449A load optimization
3- Unit conversion to eco-friendly refrigerant R-290
4- Unit optimization with variable speed compressor VTCX410U and its inverter

RESULTS

Testing and switching to a variable speed solution from the Tecumseh's IntelliCOOL™ Technology Platform, had many benefits for the customer application.

	System	Energy cons. (kWh/24h)	Cooling Cap. (W)	Deviation to target temp. (°C)	Test parameters
1	THB4428 + R-449A (310g)	5.57	205	-0.7 +3.6	Target Temp. 10°C w/o doors opening
2	VTCX410U (FS) + R-290 (90g)	4.02 (-28% vs. 1)	220		
3	VTCX410U (FS) + R-290 (90g)	5.72	220 @3.600 RPM	-0.7 +3.6	Target Temp. 10°C w/ doors opening
4	VTCX410U (VS) + R-290 (90g)	5.44 (-4.9% vs. 3)		-0.7 +1.1	

- **28% energy reduction** by switching to a VTCX compressor with permanent magnet sync motor technology, and switching to R-290 refrigerant (kWh/24h measurement)
- **5% energy reduction** by switching to variable speed vs. fixed speed ambient air and water temperatures 30°C/15°C or 15°C/10°C
- **Better cooling performance (+7%** vs. R-449A), and **better temperature stability (variation of 1.8°C** vs. 4.3°C with fixed speed)



TECUMSEH INTELLICOOL

A SOLUTION TO MEET ENERGY STAR

Combining various components of its **Tecumseh IntelliCOOL™ Technology Platform**, Tecumseh has provided an OEM customer an integrated-condensing-unit solution allowing them to meet the Energy Star Requirements in an existing glass door merchandiser. In addition to reduced energy consumption, the platform also results in improvements in performance, manufacturing, and serviceability. The system is environmental friendly using R-290 natural refrigerant.

ORIGINAL CONFIGURATION

The application was a 2-glass-door merchandiser with a bottom mounted refrigeration system. The cabinet was equipped with a fixed speed compressor (10.0 cm^3 displacement), on/off thermostat, and utilized ~255g of R-134a refrigerant. The system was equipped with a capillary tube and incorporated a 30 minute off cycle defrost every 12 hours.

THE CHALLENGE

Notoriously, glass door cabinets are less efficient than solid door cabinets and have additional heat-loading through the glass doors. These types of cabinets typically require larger capacity refrigeration systems, which results in high energy consumption.

Since this was an existing cabinet and not a new development, the challenge was to convert the cabinet from R-134a to R-290, while simultaneously reducing the energy consumption to allow the product to meet the Energy Star requirements. This was to be done without making any significant structural changes to the cabinet and minimizing any changes to the existing refrigeration system.

THE "BENCHMARK"

The 1st step was to adapt the cabinet for use with R-290 while ensuring similar (or improved) performance, robustness in the application, and minimal structural changes to the cabinet. This resulted in the following actions:

- Replaced the existing compressor, condenser fan, and condenser coil with a Tecumseh Condensing Unit utilizing **the highly-efficient TCX413U fixed speed R-290 compressor (6.93 cm^3 displacement) and an integrated condenser** coil and fan
- Optimized the R-290 refrigerant charge
- Maintained existing low-side components: evaporator coil, fan, and controls
- Verified and maintained existing capillary tube
- Maintained existing fan-cycle and defrost operations
- Verified refrigeration system performance and robustness in the application

This configuration resulted in a system that was optimally adapted for R-290 and had adequate performance and robustness. **The cabinet was then subjected to the standardized ASHRAE 72 energy consumption testing methods and the results measured.** *(See figure #1).*

AN INTELLICOOL™ TECHNOLOGY PLATFORM BASED SOLUTION

Utilizing the laboratories at Tecumseh's North American Technical Center, a series of development and testing activities were conducted to produce a system that could achieve the desired results. These activities included iterations of development, performance testing, and energy consumption testing.

Ultimately, the following changes were made to the "benchmark" system to achieve the desired results.

- Replaced TCX413U fixed speed R-290 compressor (6.93cm^3 displacement) with Tecumseh's newly released **VTCX410U variable-speed R-290 compressor** (6.06cm^3 displacement) and associated Tecumseh inverter.
- Replaced the on/off thermostat (controls) with Tecumseh's newly released **"Split" Electronic System Controller** with integrated energy management algorithm, variable speed compressor control, and independent fan controls
- Replaced the capillary tube with a thermal-expansion-valve (TXV)
- Optimized the R- 290 refrigerant charge
- Maintained existing low-side components: evaporator coil and fan
- Maintained existing defrost operations
- Verified refrigeration system performance and robustness in the application

The final solution consisted of an integrated-condensing-unit package that incorporated the new components and a remote display/user-interface that could be mounted on the exterior of the cabinet.

RESULTS

The ASHRAE 72 Energy Consumption Results of the various iterations are displayed below in Figure 1:

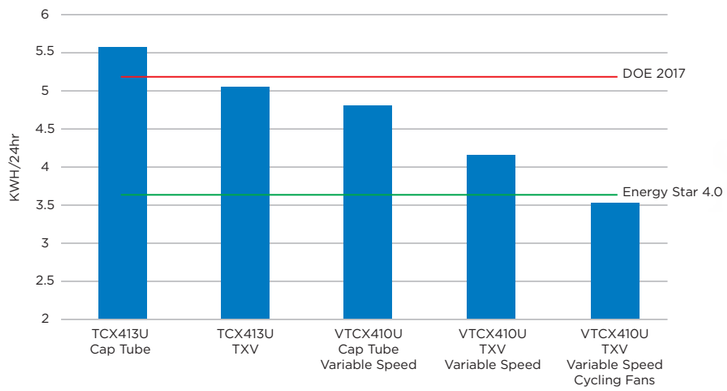


Figure 1 - ASHRAE 72 Results



CONCLUSIONS

The final solution, an integrated-condensing-unit that incorporates various components from **Tecumseh's IntelliCOOL™ Technology Platform**, has many benefits for the OEM:

- 37% energy reduction as compared to benchmark configuration that was already adapted for R-290
- Ability to increase cooling capacity by ~80% from normal use requirements to provide more capacity for pull-down or peak demands
- 54% reduction on charge
- Smaller displacement compressor
- Full integrated condensing unit solution to improve manufacturing and serviceability
- Remote display unit/user-interface that can be mounted on the exterior of the cabinet
- Enhanced alarms and diagnostic port/fault codes to improve serviceability

The final solution consisted of an integrated-condensing-unit package that incorporated the new components and a remote display/user-interface that could be mounted on the exterior of the cabinet.





COUNTERTOP BEVERAGE DISPENSER

CASE STUDY – R-134a TO R-290 CONVERSION

DESCRIPTION

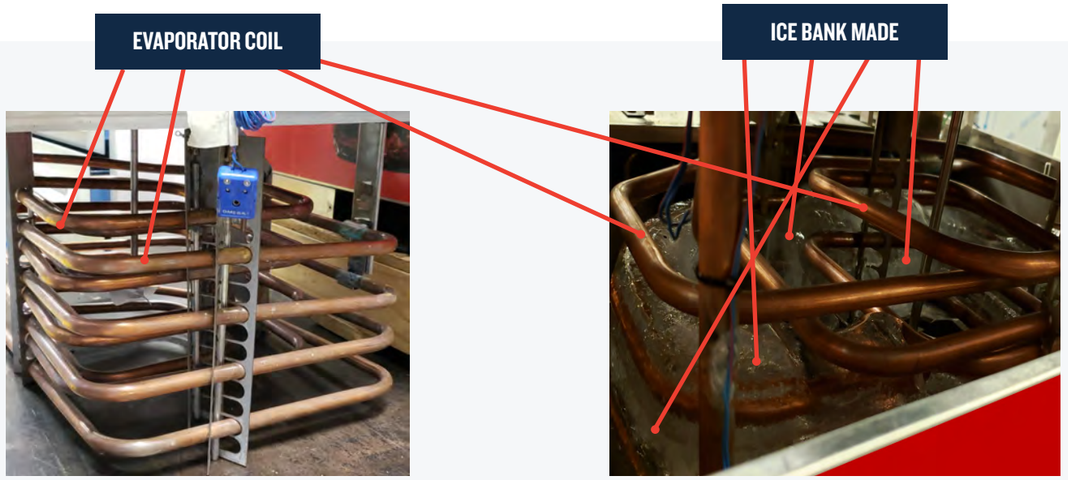
Application:	Beverage dispenser
Operating temperature:	Low/Medium temp.
Ambient temperature:	32°C (90°F)
Expansion:	Capillary Expansion
Compressor model:	ALX435U
Initial refrigerant:	R-134a
Refrigerant tested:	R-290



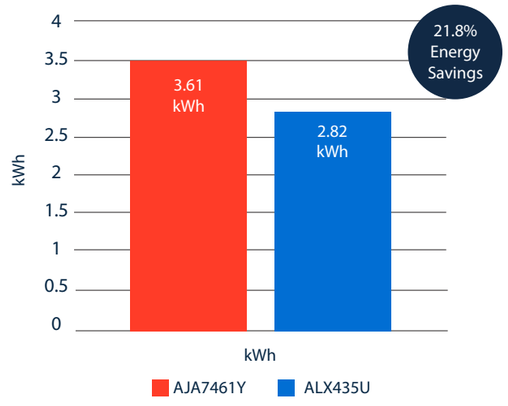
COUNTERTOP BEVERAGE DISPENSER

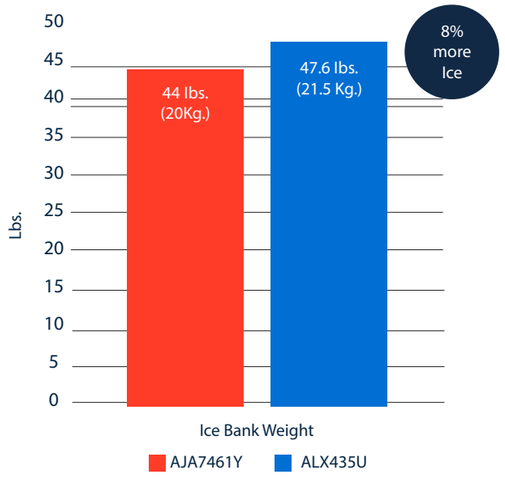
8 product options

APPLICATION OVERVIEW – LOW SIDE ASSEMBLY



DRINK DISPENSER PERFORMANCE COMPARISON

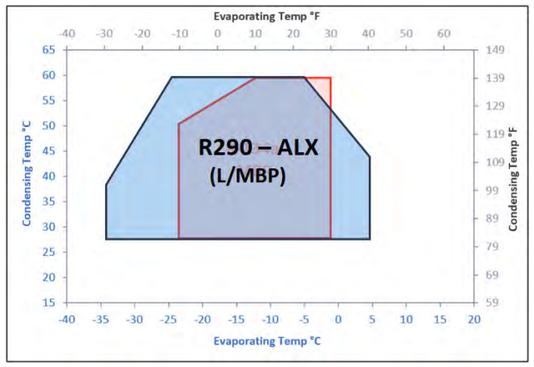




AJA7461Y VS ALX435U

- Comparable pulldown time with lower energy and a greater ice bank produced at 90°F (32°C) ambient

WHY CHOOSE THE NEW AL COMPRESSOR?





Application	**L/MBP** – Low/Medium Back Pressure
Evap. Temp Range	**-31°F to 41°F** (-35°C to 5°C)
Motor Torque	**High Start Torque** (HST)
Refrigerant	**R290 (Propane)**

ONE COMPRESSOR ACROSS DIFFERENT COMMERCIAL APPLICATIONS

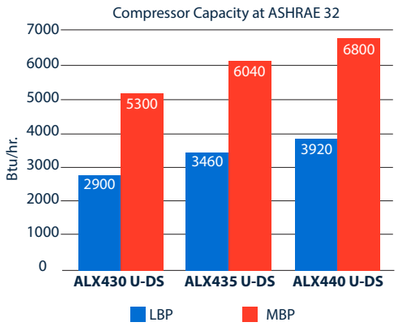
- Designed for light commercial L/MBP applications
- For use with R-290
- 50Hz and 60Hz Models
  - Performance,
  - Energy Efficiency and
  - Physical size

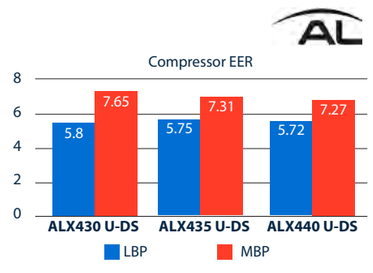


EXPANDED L/MBP OPERATION WINDOW

1 model for both LBP and MBP applications Limitation and simplification of the stock

R-290 IN 60HZ 115V-127V COMPRESSOR PERFORMANCE – L/MBP

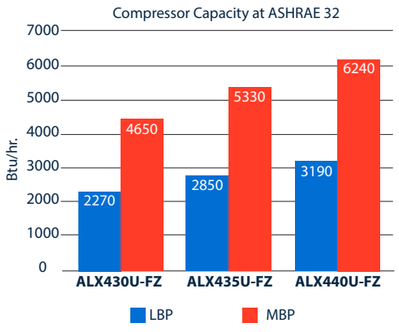


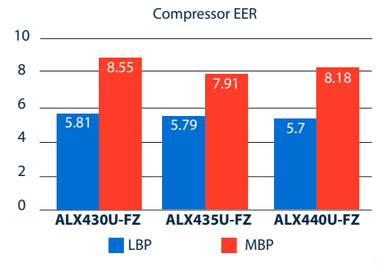


Rating Point: **LBP** (ASHRAE 32)	Rating Point: **MBP** (ASHRAE 32)	Oil Charge: 327 ml
Evap. Temp.: -23.3°C / -10°F	Evap. Temp.: -6.7°C / 20°F	Oil Type: POE
Cond. Temp.: 54.4°C / 130°F	Cond. Temp.: 54.4°C / 130°F	Oil Viscosity: 32 cSt
Return Gas Temp.: 32.2°C / 90°F	Return Gas Temp.: 35°C / 95°F	Cooling: FAN
Ambient Temp.: 32.2°C / 90°F	Ambient Temp.: 35°C / 95°F	



R-290 IN 50HZ 220V-240V COMPRESSOR PERFORMANCE – L/MBP





Rating Point: **LBP** (ASHRAE 32)	Rating Point: **MBP** (ASHRAE 32)	Oil Charge: 327 ml
Evap. Temp.: -23.3°C / -10°F	Evap. Temp.: -6.7°C / 20°F	Oil Type: POE
Cond. Temp.: 54.4°C / 130°F	Cond. Temp.: 54.4°C / 130°F	Oil Viscosity: 32 cSt
Return Gas Temp.: 32.2°C / 90°F	Return Gas Temp.: 35°C / 95°F	Cooling: FAN
Ambient Temp.: 32.2°C / 90°F	Ambient Temp.: 35°C / 95°F	



COMPRESSORS



HERMETIC COMPRESSORS

50Hz



DOMESTIC APPLICATION

LBP



R-134a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				ENI2900 -25°C (-13°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB1324YNS	2.72	0.17	PTCSIR	N	209	61	3.67	1.08	150	44	2.71	0.79	230	6.40	14.11
THB1324YS	2.72	0.17	PTCSCR	N	210	62	3.68	1.08	-	-	-	-	220-240	6.44	14.20
THB1324YS	2.72	0.17	PTCSIR	N	210	62	3.50	1.03	-	-	-	-	220-240	6.44	14.20
THB1324YS	2.72	0.17	PTCCSIR / PTCSIR	N	210	62	3.18	0.93	-	-	-	-	220	6.44	14.20
THB1330YS	3.40	0.21	PTCSCR / PTCSIR	N	269	79	3.59	1.05	-	-	-	-	220	7.27	16.02
THB1330YS	3.40	0.21	PTCSIR	N	280	82	3.50	1.03	-	-	-	-	220	7.27	16.02
THK1330YCF	3.14	0.19	PTCS_IR	N	280	82	3.50	1.03	-	-	-	-	230	7.00	15.43
THK1330YUZ	3.14	0.19	RSIR	N	280	82	3.50	1.03	-	-	-	-	220	7.00	15.43
THG1330YS	3.14	0.19	RSIR / PTCCSIR / PTCSIR	N	285	84	3.75	1.10	-	-	-	-	220	7.30	16.09
THG1330YS	3.14	0.19	PTCSIR / RSIR	N	285	84	3.65	1.07	-	-	-	-	220	7.30	16.09
THG1335YKS	3.40	0.21	PTCSIR	N	303	89	3.95	1.16	221	65	3.01	0.88	220-240	7.20	15.87
THB1335YGS	3.40	0.21	PTCSIR	N	306	90	3.50	1.03	225	66	2.67	0.78	220	7.20	15.87
THG1335YGS	3.40	0.21	PTCSIR	N	314	92	3.85	1.13	229	67	2.93	0.86	220	7.50	16.53
THG1340YKS	3.79	0.23	PTCSIR	N	354	104	4.20	1.23	258	76	3.21	0.94	220-240	7.70	16.98
THG1340YS	3.79	0.23	PTCCSIR / PTCSIR / RSIR	N	355	104	4.13	1.21	-	-	-	-	220	7.65	16.87
THG1340YS	3.79	0.23	PTCSIR / RSIR	N	355	104	3.99	1.17	-	-	-	-	220	7.65	16.87
THK1340YCF	4.00	0.25	PTCS_IR	N	365	107	3.88	1.14	-	-	-	-	230	7.20	15.87
THK1340YFZ	4.00	0.25	PTCS_IR	N	365	107	3.88	1.14	-	-	-	-	220-240	6.80	14.99
THK1340YJF	4.00	0.25	PTCS_CR	N	365	107	4.45	1.30	-	-	-	-	230	7.60	16.75
THK1340YXP	4.00	0.25	PTCS_IR	N	365	107	3.97	1.16	-	-	-	-	200	6.80	14.99
THK1343YJF	4.00	0.25	PTCS_CR	N	385	113	5.00	1.47	-	-	-	-	230	8.00	17.64
THG1346YGS	4.23	0.26	PTCSIR / RSIR / PTCCSIR	N	400	117	3.81	1.12	-	-	-	-	220	7.30	16.09
THK1351YJF	5.01	0.31	PTCS_CR	N	445	130	3.71	1.09	-	-	-	-	230	7.50	16.53
THG1352YGS	5.01	0.31	PTCSIR	N	457	134	4.10	1.20	333	98	3.14	0.92	220	7.60	16.75
THG1352YGS	5.01	0.31	CSIR	F	460	135	4.22	1.24	-	-	-	-	220	7.60	16.75
THG1352YGS	5.01	0.31	PTCCSIR / PTCSIR / RSIR / CSIR	N	460	135	4.11	1.20	-	-	-	-	220	7.60	16.75
THG1352YGS	5.01	0.31	RSIR	N	460	135	4.00	1.17	-	-	-	-	220	7.60	16.75
THG1352YKS	5.01	0.31	PTCSCR	N	460	135	4.42	1.30	-	-	-	-	220-240	7.50	16.53
THG1352YKS	5.01	0.31	RSIR / PTCSIR / PTCCSIR	N	460	135	4.26	1.25	-	-	-	-	220-240	7.50	16.53
THK1352YCF	5.01	0.31	PTCS_IR	N	460	135	4.00	1.17	-	-	-	-	230	8.20	18.08
THK1352YGS	5.01	0.31	PTCS_IR	N	460	135	4.18	1.22	-	-	-	-	220	8.20	18.08

THK1352YUZ	5.01	0.31	PTCS_IR	N	460	135	4.18	1.22	-	-	-	-	220	8.20	18.08
THG1352YKS	5.01	0.31	PTCSCR	N	476	139	6.07	1.78	345	101	4.66	1.37	220-240	7.50	16.53
THB1355YXC	5.90	0.36	PTCSIR	N	490	144	3.86	1.13	-	-	-	-	220-240	7.30	16.09
THK1358YCF	5.60	0.34	PTCS_IR	N	500	147	4.13	1.21	-	-	-	-	230	8.20	18.08
THK1358YFZ	5.60	0.34	PTCS_IR	N	500	147	4.13	1.21	-	-	-	-	220-240	8.20	18.08
THK1358YJG	5.60	0.34	PTCS_CR	N	500	147	4.71	1.38	-	-	-	-	230	8.20	18.08
THG1358YGS	5.60	0.34	RSIR / PTCSIR / PTCCSIR / CSIR	N	525	154	3.98	1.17	-	-	-	-	220	7.60	16.75
THG1358YGS	5.60	0.34	RSIR / PTCSIR	N	525	154	3.86	1.13	-	-	-	-	220	7.60	16.75
THG1358YKS	5.60	0.34	PTCSIR	N	525	154	4.34	1.27	-	-	-	-	220-240	7.60	16.75
THG1358YKS	5.60	0.34	CSIR	F	540	158	4.46	1.31	-	-	-	-	220-240	7.60	16.75
THK1365YCG	5.90	0.36	PTCS_IR	N	540	158	4.22	1.24	-	-	-	-	230	8.60	18.96
THK1365YFZ	5.90	0.36	PTCS_IR	N	540	158	4.22	1.24	-	-	-	-	220-240	8.60	18.96
THK1365YGS	5.90	0.36	PTCS_IR	N	540	158	4.22	1.24	-	-	-	-	220	8.60	18.96
THK1365YJE	5.90	0.36	CSR	N	540	158	4.22	1.24	-	-	-	-	230	8.40	18.52
THK1365YJG	5.90	0.36	PTCS_CR	N	540	158	4.70	1.38	-	-	-	-	230	8.40	18.52
THK1365YKS	5.90	0.36	PTCS_IR	N	540	158	4.40	1.29	-	-	-	-	220-240	8.60	18.96
THK1365YUZ	5.90	0.36	RSIR	N	540	158	4.22	1.24	-	-	-	-	220	8.60	18.96
THK1365YWS	5.90	0.36	CSIR	N	540	158	4.22	1.24	-	-	-	-	200-220	8.60	18.96
THG1365YGS	5.90	0.36	RSIR	N	565	166	3.95	1.16	413	121	3.01	0.88	220	7.80	17.20
THG1365YNS	5.90	0.36	PTCSIR	N	568	166	4.29	1.26	414	121	3.31	0.97	230	7.30	16.09
THG1374YFS	6.96	0.43	PTCSIR	N	683	200	4.42	1.30	490	144	3.35	0.98	220	7.70	16.98



R-134a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
TA1330Y-GS1A	3.14	0.19	PTCSIR	N	290	85	4.14	1.21	220	6.60	14.55
TA1330Y-GS1B	3.14	0.19	PTCSIR	N	290	85	5.18	1.52	220	7.20	15.87
TA1340Y-GS1W	3.79	0.23	PTCCSIR	N	355	104	4.01	1.17	220	6.50	14.33
TA1340Y-GS1A	3.79	0.23	PTCSIR	N	360	105	4.29	1.26	220	6.50	14.33
TA1340Y-GS1V	3.79	0.23	PTCSIR	F	370	108	4.30	1.26	220	6.50	14.33
TA1350Y-FZ2B	4.57	0.28	PTCSCR	N	450	132	5.33	1.56	220-240	7.40	16.31
TA1350Y-FZ2B	4.57	0.28	PTCSIR	N	450	132	5.14	1.51	220-240	7.40	16.31
TA1360Y-GS1A	5.74	0.35	PTCSIR	N	495	145	4.42	1.30	220	7.50	16.53
TA1360Y-GS1B	5.74	0.35	PTCSIR	N	495	145	5.16	1.51	220	7.70	16.98
TA1360Y-GS1V	5.74	0.35	PTCSIR	N	495	145	4.42	1.30	220	7.50	16.53
TA1360Y-GS1H	5.54	0.34	PTCSIR	N	500	147	4.81	1.41	220	7.20	15.87
TA1360Y-GS1W	5.74	0.35	PTCCSIR/PTCSIR	N	500	147	4.24	1.24	220	7.50	16.53
TA1360Y-GS1G	5.54	0.34	PTCSIR	N	510	149	4.64	1.36	220	8.10	17.86
TA1365Y-GS1A	6.06	0.37	PTCSIR	N	535	157	4.46	1.31	220	7.50	16.53
TA1370Y-FZ1D	6.06	0.37	PTCSIR	N	560	164	4.87	1.43	220-240	7.70	16.98
TA1370Y-FZ3F	6.06	0.37	PTCSCR	N	575	168	5.69	1.67	220-240	8.10	17.86
TA1370Y-FZ1G	6.33	0.39	PTCSIR	N	585	171	4.96	1.45	220-240	7.70	16.98

TA1375Y-FZ2D	6.33	0.39	PTCSCR	N	590	173	5.22	1.53	220-240	7.70	16.98
TA1375Y-GS3F	6.33	0.39	PTCSCR	N	600	176	5.58	1.63	220	8.02	17.68
TA1375Y-FZ3F	6.33	0.39	PTCSCR	N	605	177	5.76	1.69	220-240	8.10	17.86
TA1370Y-FZ3J	6.33	0.39	PTCSCR	N	610	179	5.75	1.68	220-240	8.70	19.18
TA1375Y-GS2B	6.93	0.43	PTCSCR	N	630	185	5.25	1.54	220	8.10	17.86
TA1375Y-GS2B	6.93	0.43	PTCSIR	N	630	185	5.16	1.51	220	8.10	17.86
TA1375Y-FZ2B	6.93	0.43	PTCSCR	N	655	192	5.46	1.60	220-240	7.90	17.42
TA1375Y-FZ2B	6.93	0.43	PTCSIR	N	655	192	5.24	1.54	220-240	7.90	17.42
TA1380Y-GS1H	6.93	0.43	PTCSIR	N	660	193	5.08	1.49	220	7.60	16.75
TA1380Y-GS1W	6.93	0.43	CSIR/ PTCCSIR	N	660	193	4.75	1.39	220	7.90	17.42
TA1380Y-GS2E	6.93	0.43	PTCSIR	N	660	193	5.08	1.49	220	7.90	17.42
TA1380Y-FZ2G	6.93	0.43	PTCSCR / PTCSIR	N	680	199	5.40	1.58	220-240	8.20	18.08
TA1380Y-FZ2B	7.28	0.45	PTCSIR	N	725	212	5.29	1.55	220-240	7.90	17.42
TA1380Y-FZ2B	7.28	0.45	PTCSCR	N	730	214	5.62	1.65	220-240	7.90	17.42
TA1390Y-FZ1F	7.84	0.48	PTCSIR	N	730	214	4.77	1.40	220-240	8.10	17.86
TA1390Y-FZ3C	7.84	0.48	PTCSCR	N	745	218	5.73	1.68	220-240	8.10	17.86
TA1390Y-FZ3J	7.84	0.48	PTCSCR	N	770	226	5.81	1.70	220-240	8.10	17.86



R-134a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F) Capacity		ASHRAE -23.3°C (-10°F) Efficiency		ENI2900 -35°C (-31°F) Capacity		ENI2900 -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE1390Y-FZ1A	8.02	0.49	PTCSIR	F	745	218	4.04	1.18	541	159	3.07	0.90	220-240	9.70	21.38





R-600a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F) Capacity		ASHRAE -23.3°C (-10°F) Efficiency		ENI2900 -35°C (-31°F) Capacity		ENI2900 -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TA1330M-GS2B	4.57	0.28	PTCSCR/ PTCSIR	N	250	73	5.10	1.49	136	40	2.71	0.79	220	7.10	15.65
TA1330M-GS1A	4.57	0.28	PTCSIR	N	260	76	4.06	1.19	-	-	-	-	220	6.50	14.33
TA1340M-GS1A	6.33	0.39	PTCSIR	N	330	97	4.62	1.35	176	52	3.13	0.92	220	6.90	15.21
TA1345M-AE1G	6.53	0.40	PTCSIR	N	360	105	5.22	1.53	-	-	-	-	230	8.30	18.30
TA1345M-FZ1G	6.53	0.40	PTCSIR	N	375	110	5.40	1.58	-	-	-	-	220-240	6.80	14.99
TA1345M-FZ1A	6.93	0.43	PTCSIR	N	390	114	5.17	1.51	-	-	-	-	220-240	6.90	15.21
TA1360M-GS1A	8.36	0.51	PTCSIR	N	440	129	4.58	1.34	232	68	3.29	0.96	220	8.14	17.95
TA1360M-FZ2A	8.36	0.51	PTCSCR/ PTCSIR	N	465	136	5.67	1.66	-	-	-	-	220-240	7.50	16.53
TA1360M-FZ1A	8.36	0.51	PTCSIR	N	465	136	5.31	1.56	-	-	-	-	220-240	7.50	16.53
TA1360M-GS1G	8.87	0.54	PTCSIR	N	480	141	4.92	1.44	-	-	-	-	220	7.70	16.98
TA1360M-FZ1G	8.87	0.54	PTCSIR	N	500	147	5.49	1.61	-	-	-	-	220-240	8.00	17.64
TA1360M-AE3J	8.87	0.54	PTCSCR	N	510	149	6.07	1.78	-	-	-	-	230	8.61	18.98
TA1360M-AE1H	8.87	0.54	PTCSIR	N	510	149	5.51	1.61	-	-	-	-	230	8.50	18.74
TA1370M-FZ2C	10.33	0.63	PTCSCR	N	570	167	6.00	1.76	-	-	-	-	220-240	8.10	17.86
TA1370M-GS1A	10.33	0.63	PTCSIR	N	585	171	4.81	1.41	281	82	3.32	0.97	220	7.95	17.53
TA1370M-GS2B	10.33	0.63	PTCSCR/ PTCSIR	N	590	173	5.29	1.55	-	-	-	-	220	7.95	17.53
TA1380M-GS1B	11.69	0.72	PTCSIR	N	650	190	5.20	1.52	-	-	-	-	220	8.12	17.90
TA1380M-FZ3C	11.69	0.72	PTCSCR	N	670	196	6.01	1.76	-	-	-	-	220-240	8.20	18.08
TA1380M-GS1H	11.69	0.72	PTCSIR	N	670	196	4.89	1.43	-	-	-	-	220	8.00	17.64
TA1380M-FZ3J	11.69	0.72	PTCSCR	N	690	202	6.30	1.85	-	-	-	-	220-240	8.60	18.96
TA1385M-FZ1G	12.47	0.77	PTCSIR	N	730	214	5.12	1.50	-	-	-	-	220-240	8.20	18.08
TA1385M-FZ3J	12.47	0.77	PTCSCR	N	740	217	6.17	1.81	-	-	-	-	220-240	8.78	19.36



LIGHT COMMERCIAL

LBP



R-134a

LBP - Low Back Pressure

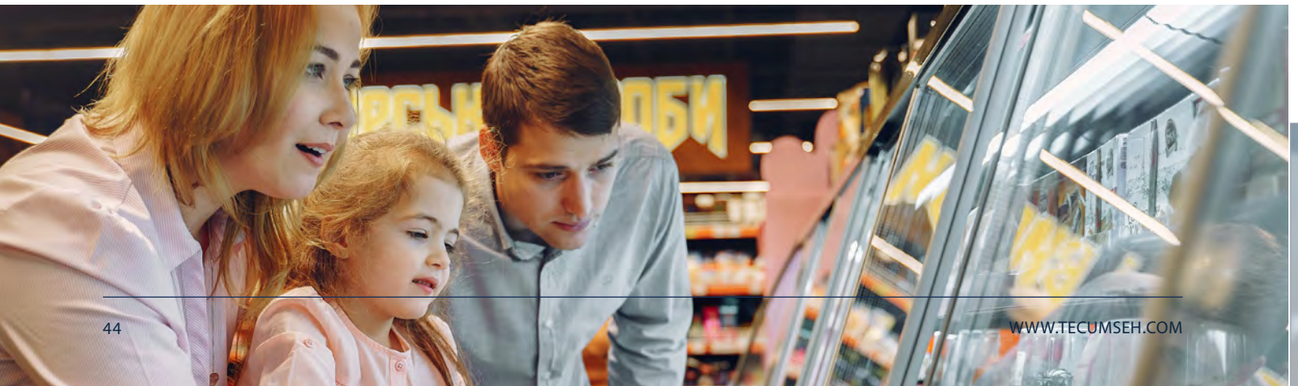
Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				ENI2900 -25°C (-13°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Y-FZ1A	9.39	0.58	CSIR	F	820	240	3.98	1.17	602	176	3.10	0.91	220-240	9.50	20.94
AE2413Y-FZ1A	12.01	0.74	CSIR	F	1100	322	4.15	1.22	781	229	3.08	0.90	220-240	10.20	22.49
AE2415Y-GH1B	12.48	0.77	CSIR	F	1170	343	4.33	1.27	820	240	3.22	0.94	230	11.18	24.65
AE2415Y-FZ1B	12.48	0.77	CSIR	F	1230	360	4.59	1.34	904	265	3.58	1.05	220-240	11.20	24.69



R-401A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btuh	W	EER	COP		kg	lb
AE1345A-FZ1A	4.24	0.26	RSIR	N	400	117	3.70	1.08	220-240	9.70	21.38
AE1360A-FZ1A	6.12	0.38	RSIR	N	540	158	3.75	1.10	220-240	9.70	21.38
AE1370A-FZ1A	6.69	0.41	RSIR	N	660	193	4.00	1.17	220-240	9.60	21.16
AE1380A-GS1B	7.56	0.46	RSIR	N	760	223	4.29	1.26	220	10.60	23.37
AE1390A-FZ1B	8.02	0.49	RSIR	N	820	240	4.41	1.29	220-240	11.26	24.82
AE1410A-FZ1B	8.85	0.54	RSIR	N	920	270	4.36	1.28	220-240	11.29	24.89
AE2413A-FZ1A	12.01	0.74	CSIR	F	1400	410	4.36	1.28	220-240	10.20	22.49
AE2415A-FZ1B	12.48	0.77	CSIR	F	1450	425	4.59	1.34	220-240	11.20	24.69





R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				ENI2900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2413Z-GS1A	6.12	0.38	CSIR	F	1050	308	3.99	1.17	513	150	2.60	0.76	220	10.20	22.49
AE2425Z-FZ1C	12.01	0.74	CSIR	F	2250	659	4.44	1.30	-	-	-	-	220-240	11.40	25.13
AE2425Z-GS3B	12.01	0.74	CSR	F	2250	659	4.66	1.37	-	-	-	-	220	11.10	24.47
AE2430Z-GS3C	14.51	0.89	CSR	F	2650	776	4.48	1.31	-	-	-	-	220	11.56	25.49



R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btuh	W	EER	COP		kg	lb
TYA2431ZKS	18.80	1.15	CSR	F	2630	771	4.00	1.17	220-240	16.67	36.75
TYA2438ZKS	22.33	1.37	CSR	F	3175	930	4.26	1.25	220-240	17.50	38.58
TYA2446ZKS	26.00	1.60	CSR	F	3980	1166	4.30	1.26	220-240	17.66	38.93



R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ARI -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HGA2425ZXC	11.74	0.72	CSR	F	1965	576	3.89	1.14	220-240	12.30	27.12





R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				ENI2900 -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
HG2446Z-FZ3A	16.11	0.99	CSR / PSC	F	3497	1025	4.66	1.37	1970	577	3.71	1.09	220-240	12.00	26.46



R-404A R-448A R-449A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				ENI2900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2378ZFZ	4.20	0.26	CSIR	N	648	190	3.43	1.00	341	100	2.50	0.73	220-240	7.30	16.09
THB2378ZGZ	4.20	0.26	CSIR	N	653	191	3.77	1.10	343	100	2.77	0.81	208-220	7.40	16.31
THB2396ZFZ	5.20	0.32	CSIR	N / F	793	232	3.71	1.09	447	131	2.86	0.84	220-240	7.40	16.31



R-404A R-448A R-449A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F)				ENI2900 (R-448A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2378ZFZ	4.20	0.26	CSIR	N	573	168	3.24	0.95	286	84	2.28	0.67	220-240	7.30	16.09
THB2378ZGZ	4.20	0.26	CSIR	N	580	170	3.53	1.03	287	84	2.53	0.74	208-220	7.40	16.31
THB2396ZFZ	5.20	0.32	CSIR	N / F	688	202	3.40	1.00	373	109	2.61	0.76	220-240	7.40	16.31



R-404A R-448A R-449A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F)				ENI2900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2378ZFZ	4.20	0.26	CSIR	N	573	168	3.24	0.95	285	84	2.27	0.67	220-240	7.30	16.09
THB2378ZGZ	4.20	0.26	CSIR	N	581	170	3.53	1.03	286	84	2.53	0.74	208-220	7.40	16.31
THB2396ZFZ	5.20	0.32	CSIR	N / F	689	202	3.41	1.00	372	109	2.61	0.76	220-240	7.40	16.31



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				ENI2900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2360ZFZ	3.40	0.21	CSIR	N	559	164	3.84	1.13	294	86	2.82	0.83	220-240	7.70	16.98
THB2378ZXA	4.20	0.26	CSIR	N	648	190	3.71	1.09	447	131	2.86	0.84	100	7.30	16.09



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F)				ENI2900 (R-448A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2360ZFZ	3.40	0.21	CSIR	N	493	144	3.58	1.05	247	72	2.59	0.76	220-240	7.70	16.98
THB2378ZXA	4.20	0.26	CSIR	N	574	168	3.46	1.01	285	84	2.52	0.74	100	7.30	16.09





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-449A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2360ZFZ	3.40	0.21	CSIR	N	494	145	3.59	1.05	246	72	2.58	0.76	220-240	7.70	16.98
THB2378ZXA	4.20	0.26	CSIR	N	575	168	3.46	1.01	284	83	2.52	0.74	100	7.30	16.09



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-452A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2360ZFZ	3.40	0.21	CSIR	N	523	153	3.73	1.09	275	81	2.78	0.81	220-240	7.70	16.98
THB2378ZXA	4.20	0.26	CSIR	N	608	178	3.60	1.05	318	93	2.71	0.79	100	7.30	16.09





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-404A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Z-FZ1A	5.02	0.31	CSIR	F	850	249	3.92	1.15	410	120	2.63	0.77	220-240	9.60	21.16
AE2410Z-GS1A	5.02	0.31	CSIR	F	850	249	3.78	1.11	411	120	2.63	0.77	220	9.80	21.61
AE2415Z-GS1A	7.33	0.45	CSIR	F	1250	366	4.10	1.20	640	188	2.96	0.87	220	10.20	22.49
AE2415Z-FZ1B	7.33	0.45	CSIR	F	1300	381	4.23	1.24	663	194	3.08	0.90	220-240	10.40	22.93
AE1420Z-FZ1B	9.35	0.57	CSIR/ PTCCSIR/ PTCSIR	F	1600	469	4.41	1.29	840	246	3.33	0.98	220-240	11.20	24.69
AE2420Z-GS1B	9.33	0.57	CSIR	F	1700	498	4.36	1.28	775	227	3.22	0.94	220	10.60	23.37
AE2425Z-FZ3C	12.01	0.74	CSR	F	2250	659	4.93	1.44	1123	329	3.48	1.02	220-240	11.60	25.57
AE2425Z-GS3C	12.01	0.74	CSR	F	2250	659	4.66	1.37	1116	327	3.35	0.98	220	11.20	24.69
AE2430Z-FZ3C	14.51	0.89	CSR	F	2700	791	4.60	1.35	1429	419	3.47	1.02	220-240	11.50	25.35



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-448A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Z-GS1A	5.00	0.31	CSIR	F	760	223	3.59	1.05	379	111	2.50	0.73	220	9.80	21.61
AE2410Z-FZ1A	5.00	0.31	CSIR	F	765	224	3.51	1.03	379	111	2.49	0.73	220 - 240	9.60	21.16
AE2415Z-FZ1B	7.33	0.45	CSIR	F	1138	333	3.91	1.15	558	163	2.82	0.83	220 - 240	10.40	22.93
AE2415Z-GS1A	7.33	0.45	CSIR	F	1151	337	3.79	1.11	587	172	2.77	0.81	220 - 240	10.70	23.59
AE1420Z-FZ1B	9.30	0.57	CSIR	F	1440	422	4.09	1.20	706	207	3.04	0.89	220 - 240	11.20	24.69
AE2420Z-GS1B	9.35	0.57	CSIR	F	1487	436	4.19	1.23	717	210	3.03	0.89	220 - 240	11.50	25.35
AE2425Z-FZ3C	12.00	0.74	CSR	F	1931	566	4.34	1.27	946	277	3.18	0.93	220 - 240	11.30	24.91
AE2425Z-GS3C	12.01	0.74	CSR	F	1994	584	4.12	1.21	1022	299	3.11	0.91	220 - 240	11.20	24.69
AE2430Z-FZ3C	14.51	0.89	CSR	F	2377	696	4.27	1.25	1203	352	3.18	0.93	220 - 240	11.50	25.35



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F)				EN12900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Z-GS1A	5.00	0.31	CSIR	F	760	223	3.59	1.05	378	111	2.49	0.73	220	9.80	21.61
AE2410Z-FZ1A	5.00	0.31	CSIR	F	765	224	3.51	1.03	378	111	2.49	0.73	220 - 240	9.60	21.16
AE2415Z-FZ1B	7.33	0.45	CSIR	F	1138	333	3.91	1.15	556	163	2.82	0.83	220 - 240	10.40	22.93
AE2415Z-GS1A	7.33	0.45	CSIR	F	1151	337	3.79	1.11	586	172	2.77	0.81	220	10.70	23.59
AE1420Z-FZ1B	9.30	0.57	CSIR	F	1440	422	4.09	1.20	704	206	3.03	0.89	220 - 240	11.20	24.69
AE2420Z-GS1B	9.35	0.57	CSIR	F	1487	436	4.19	1.23	715	209	3.02	0.88	220	11.50	25.35
AE2425Z-FZ3C	12.00	0.74	CSR	F	1931	566	4.34	1.27	944	277	3.17	0.93	220 - 240	11.30	24.91
AE2425Z-GS3C	12.01	0.74	CSR	F	1994	584	4.12	1.21	1019	299	3.11	0.91	220	11.20	24.69
AE2430Z-FZ3C	14.51	0.89	CSR	F	2377	696	4.27	1.25	1200	352	3.17	0.93	220 - 240	11.50	25.35



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F)				EN12900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Z-GS1A	5.00	0.31	CSIR	F	779	228	3.98	1.17	386	113	2.59	0.76	220	9.80	21.61
AE2410Z-FZ1A	5.00	0.31	CSIR	F	785	230	3.90	1.14	385	113	2.59	0.76	220 - 240	9.60	21.16
AE2415Z-GS1A	7.33	0.45	CSIR	F	1182	346	4.21	1.23	600	176	2.90	0.85	220	10.70	23.59
AE2415Z-FZ1B	7.33	0.45	CSIR	F	1216	356	4.15	1.22	620	182	3.00	0.88	220 - 240	10.40	22.93
AE2420Z-GS1B	9.35	0.57	CSIR	F	1522	446	4.66	1.37	729	214	3.15	0.92	220	11.50	25.35
AE1420Z-FZ1B	9.30	0.57	CSIR	F	1538	451	4.35	1.27	785	230	3.23	0.95	220 - 240	11.20	24.69
AE2425Z-GS3C	12.01	0.74	CSR	F	2049	600	4.58	1.34	1045	306	3.26	0.96	220	11.20	24.69
AE2425Z-FZ3C	12.00	0.74	CSR	F	2064	605	4.61	1.35	1051	308	3.38	0.99	220 - 240	11.30	24.91
AE2430Z-FZ3C	14.51	0.89	CSR	F	2545	746	4.55	1.33	1339	392	3.38	0.99	220 - 240	11.50	25.35



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C) -23.3°C (-10°F)				EN12900 (R-454C) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410P-FZ1A	5.02	0.31	CSIR	F	619	181	3.56	1.04	333	98	2.38	0.70	220 - 240	9.70	21.38
AE2415P-FZ1B	7.33	0.45	CSIR	F	1008	295	4.35	1.27	558	163	3.09	0.91	220 - 240	10.40	22.93
AE2420P-FZ1B	9.33	0.57	CSIR	F	1268	372	4.35	1.27	707	207	3.15	0.92	220 - 240	11.40	25.13
AE2425P-FZ1C	12.01	0.74	CSIR	F	1647	483	4.30	1.26	891	261	3.14	0.92	220 - 240	11.40	25.13



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A) -23.3°C (-10°F)				EN12900 (R-455A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410P-FZ1A	5.02	0.31	CSIR	F	659	193	3.64	1.07	386	113	2.53	0.74	220 - 240	9.70	21.38
AE2415P-FZ1B	7.33	0.45	CSIR	F	1093	320	4.48	1.31	643	188	3.24	0.95	220 - 240	10.40	22.93
AE2420P-FZ1B	9.33	0.57	CSIR	F	1374	403	4.48	1.31	814	239	3.30	0.97	220 - 240	11.40	25.13
AE2425P-FZ1C	12.01	0.74	CSIR	F	1777	521	4.42	1.30	1036	304	3.30	0.97	220 - 240	11.40	25.13





R-404A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				ARI (R-404A) -23.3°C (-10°F)				ENI2900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK2427Z-FZ3B	15.63	0.95	CSR	F	1906	558	4.50	1.32	1462	428	3.33	0.98	831	243	4.52	1.32	220-240	35.00	77.16
AK2430Z-XA3B	17.45	1.07	CSR	F	2390	700	4.60	1.35	-	-	-	-	-	-	-	-	100	35.00	77.16
AK2430Z-XD3B	17.45	1.07	CSR	F	2444	716	4.50	1.32	-	-	-	-	-	-	-	-	200	35.00	77.16
AK2430Z-FZ3B	17.45	1.07	CSR	F	2500	733	4.63	1.36	1828	536	3.54	1.04	1157	339	3.45	1.00	220-240	35.00	77.16
AK2436Z-FZ3B	20.43	1.25	CSR	F	3121	914	4.76	1.39	2248	659	3.43	1.00	1482	454	3.35	1.00	220-240	35.00	77.16
AK2448Z-FZ3C	25.68	1.57	CSR	F	4130	1210	5.10	1.49	3057	896	3.80	1.11	2090	612	3.75	1.10	220-240	35.00	77.16



R-404A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-452A) -23.3°C (-10°F)				ARI (R-452A) -23.3°C (-10°F)				ENI2900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK2427Z-FZ3B	15.63	0.95	CSR	F	1811	531	4.40	1.29	1389	407	3.30	0.97	877	257	3.20	0.94	220-240	35.00	77.16
AK2430Z-FZ3B	17.45	1.07	CSR	F	2191	642	4.54	1.33	1728	506	3.58	1.05	1091	320	3.26	0.90	220-240	35.00	77.16
AK2430Z-XD3B	17.45	1.07	CSR	F	2444	716	4.50	1.32	-	-	-	-	-	-	-	-	200	35.00	77.16
AK2436Z-FZ3B	20.43	1.25	CSR	F	2797	820	4.47	1.31	2287	670	3.67	1.08	1511	443	3.54	1.00	220-240	35.00	77.16
AK2448Z-FZ3C	25.68	1.57	CSR	F	3676	1077	4.96	1.45	2865	839	3.90	1.14	1976	579	3.88	1.10	220-240	35.00	77.16

R-290

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btuh	W	EER	COP		kg	lb
TC1370U-GS6B	3.79	0.23	PTCCSIR/ PTCSIR	F	610	179	4.86	1.42	220	8.50	18.74
TC1415U-FZ8B	7.84	0.48	CSIR	F	1290	378	5.22	1.53	220-240	8.74	19.27



R-290

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				EN12900 -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410U-FZ1A	6.12	0.38	CSIR	F	850	249	4.19	1.23	387	113	2.70	0.79	220-240	10.20	22.49
AE2410U-GS1A	6.12	0.38	CSIR	F	850	249	4.19	1.23	-	-	-	-	220	10.20	22.49
AE2413U-GS1A	7.33	0.45	CSIR	F	1050	308	4.09	1.20	-	-	-	-	220	10.22	22.53
AE2415U-FZ1A	8.85	0.54	CSIR	F	1250	366	4.28	1.25	626	183	3.18	0.93	220-240	10.20	22.49
AE2415U-GS1B	8.85	0.54	CSIR	F	1350	396	4.38	1.28	-	-	-	-	220	11.30	24.91
AE2420U-GS1B	10.96	0.67	CSIR	F	1600	469	4.49	1.32	-	-	-	-	220	11.10	24.47
AE2420U-FZ1B	10.96	0.67	CSIR	F	1700	498	4.37	1.28	805	236	3.39	0.99	220-240	11.25	24.80



R-290

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				ARI -23.3°C (-10°F)				EN12900 -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK2431U-FZ3B	20.43	1.25	CSR	F	2498	732	4.90	1.44	1995	585	1.17	0.34	1320	387	3.75	1.10	220-240	35.00	77.16
AK2424U-XA3B	17.45	1.07	CSR	F	2500	733	4.71	1.38	2024	593	1.15	0.34	-	-	-	-	100	35.00	77.16
AK2431U-XN3B	20.43	1.25	CSR	F	3166	928	5.06	1.48	2628	770	1.24	0.36	-	-	-	-	200-220	35.00	77.16
AK2431U-XA3B	20.43	1.25	CSR	F	3360	984	5.00	1.47	2587	758	1.23	0.36	-	-	-	-	100	35.00	77.16



LIGHT COMMERCIAL

L/MBP



R-134a

L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TCW390Y-GS8E	7.84	0.48	CSIR	F	810	237	4.66	1.37	1810	530	7.13	2.09	220	8.70	19.18
TCW410Y-FZ8E	9.74	0.60	CSIR	F	920	270	4.72	1.38	2130	624	6.87	2.01	220-240	8.50	18.74
TCW410Y-FZ7C	9.74	0.60	PTCCSR/ PTCSCR	F	925	271	5.24	1.54	2170	636	7.86	2.30	220-240	8.74	19.27
TCW413Y-FZ8E	10.87	0.67	CSIR	F	1025	300	4.54	1.33	2370	694	6.73	1.97	220-240	8.70	19.18
TCW413Y-FZ7C	10.87	0.67	PTCCSR/ PTCSCR	F	1045	306	5.09	1.49	2450	718	7.73	2.26	220-240	8.73	19.25



R-134a

L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								EN12900				Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)				-35°C (-31°F)				-10°C (+14°C)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AEW415Y-GS8B	12.48	0.77	CSIR	F	1250	366	4.39	1.29	2810	823	6.59	1.93	636	186	3.18	0.93	2445	716	6.79	1.99	220	11.30	24.91





R-290

L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								EN12900								Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)				-35°C (-31°F)				-10°C (+14°C)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TCW330U-GS6D	1.83	0.11	CSIR	F	225	66	3.19	0.93	540	158	6.14	1.80	139	41	2.42	0.71	498	146	6.54	1.92	220	7.95	17.53
TCW350U-GS1B	2.72	0.17	PTCSIR	F	430	126	4.55	1.33	870	255	7.07	2.07	-	-	-	-	-	-	-	-	220	8.36	18.43
TCW350U-GS8B	2.72	0.17	CSIR	F	430	126	4.55	1.33	870	255	7.07	2.07	232	68	3.28	0.96	712	209	7.14	2.09	220	8.36	18.43
TCW360U-GS3H	3.14	0.19	PTCSCR	N	480	141	5.30	1.55	950	278	7.54	2.21	-	-	-	-	-	-	-	-	220	7.50	16.53
TCW360U-GS8A	3.14	0.19	CSIR	F	500	147	4.57	1.34	1049	307	7.47	2.19	301	88	3.52	1.03	884	259	7.41	2.17	220	8.30	18.30
TCW360U-GS3H	3.14	0.19	PTCSCR	F	530	155	5.52	1.62	950	278	7.54	2.21	-	-	-	-	-	-	-	-	220	7.50	16.53
TCW380U-GS3H	4.19	0.26	PTCSCR	N	650	190	5.16	1.51	1340	393	7.84	2.30	-	-	-	-	-	-	-	-	220	8.10	17.86
TCW380U-GS3H	4.19	0.26	PTCSCR	F	690	202	5.48	1.61	1340	393	7.84	2.30	-	-	-	-	-	-	-	-	220	8.10	17.86
TCW380U-GS8A	4.19	0.26	CSIR	F	700	205	4.46	1.31	1400	410	7.14	2.09	425	125	3.37	0.99	1269	372	7.61	2.23	220	8.36	18.43
TCW390U-GS8E	4.75	0.29	CSIR	F	760	223	4.75	1.39	1500	440	7.39	2.17	493	144	4.22	1.24	1430	419	8.52	2.50	220	8.60	18.96
TCW410U-GS3H	6.06	0.37	PTCSCR	N	900	264	4.86	1.42	1800	527	7.20	2.11	-	-	-	-	-	-	-	-	220	8.30	18.30
TCW410U-GS3H	6.06	0.37	PTCSCR	F	940	275	5.08	1.49	1900	556	5.08	2.23	-	-	-	-	-	-	-	-	220	8.30	18.30
TCW410U-GS8E	6.06	0.37	CSIR	F	980	287	4.75	1.39	1985	582	7.27	2.13	554	162	3.62	1.06	1710	501	7.56	2.22	220	8.60	18.96
TCW410U-FZ7C	6.06	0.37	PTCCSR/ PTCSCR	F	1000	293	5.80	1.70	1970	577	8.64	2.53	627	184	5.03	1.47	1803	528	9.86	2.89	220-240	8.78	19.36
TCW413U-FZ7C	6.93	0.43	PTCCSR	F	1135	333	5.66	1.66	2215	649	8.42	2.47	606	178	4.47	1.31	1955	573	9.07	2.66	220-240	8.78	19.36
TCW413U-GS8E	6.93	0.43	CSIR	F	1140	334	4.92	1.44	2290	671	7.48	2.19	714	209	4.16	1.22	2066	605	8.12	2.38	220	8.63	19.03
TCW413U-GS3H	6.93	0.43	PTCSCR	F	1150	337	5.48	1.61	2260	662	8.19	2.40	-	-	-	-	-	-	-	-	220	8.39	18.50
TCX415U-GS8B	7.84	0.48	CSIR	F	1300	381	4.68	1.37	2500	733	7.06	2.07	747	219	3.48	1.02	2246	658	7.32	2.14	220	8.60	18.96



R-290

L/MBP - Low / Medium Back Pressure (INVERTER)

Model Reference	Displacement		(RPM)	Cooling Capacity	
	cm³	in³		Btu/h	W
VTCX360U-MD5C	3.14	0.19	2500 – 4500	432 - 768	127 - 225
VTCX410U-MD5C	6.06	0.37	2500 – 4500	848 - 1410	248 - 413
VTCX415U-MD5C	7.84	0.48	2500 – 4500	1093 - 1826	320 - 535
VTCX419U-ME5C	9.74	0.60	2000 – 4500	1166 - 2241	342 - 657
VTCW424U-ME5C	12.47	0.77	2000 – 4500	1482 - 2961	434 - 868
VTC1424U-MD5C	12.47	0.77	2500 – 4500	1818 - 3126	533 - 916





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L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								ENI2900								Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)				-35°C (-31°F)				-10°C (+14°C)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AEX419U-FZ1B	10.33	0.63	CSIR	F	1199	351	4.39	1.29	2562	751	6.65	1.95	885	259	3.69	1.08	2589	759	6.54	1.92	220-240	11.30	24.91
AEX419U-FZ1C	10.33	0.63	CSIR	F	1630	478	4.89	1.43	-	-	-	-	-	-	-	-	-	-	-	-	220-240	11.30	24.91
AEX424U-FZ3B	12.01	0.74	CSR	F	1972	578	5.12	1.50	3910	1146	7.59	2.22	1120	328	3.93	1.15	3335	977	7.59	2.22	220-240	11.30	24.91
AEX428U-FZ3B	13.24	0.81	CSR	F	2089	612	5.17	1.51	4078	1195	7.60	2.23	1182	346	4.03	1.18	3635	1065	7.99	2.34	220-240	11.30	24.91
AEX433U-FZ3C	15.09	0.93	CSR	F	2372	695	5.17	1.51	4667	1367	7.60	2.23	1390	407	4.16	1.22	3960	1160	7.75	2.27	220-240	11.50	25.35



R-290

L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								ENI2900								Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)				-35°C (-31°F)				-10°C (+14°C)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
ALX430U-FZ3A	15.09	0.93	CSR	F	2270	665	5.81	1.70	4650	1362	8.55	2.51	1240	363	4.49	1.32	3730	1093	7.84	2.30	220-240	13.10	28.88
ALX430U-FZ1A	15.09	0.93	CSIR	F	2325	681	5.18	1.52	4630	1357	7.53	2.21	1290	378	3.96	1.16	3700	1084	6.83	2.00	220-240	13.20	29.10
ALX435U-FZ1A	17.71	1.09	CSIR	F	2800	820	5.12	1.50	5460	1600	7.27	2.13	1560	457	4.05	1.19	4370	1280	6.80	1.99	220-240	15.00	33.07
ALX435U-FZ3A	17.71	1.09	CSR	F	2850	835	5.79	1.70	5330	1562	7.91	2.32	1550	454	4.37	1.28	4415	1294	7.41	2.17	220-240	13.10	28.88
ALX440U-FZ3A	19.95	1.22	CSR	F	3190	935	5.70	1.67	6240	1828	8.18	2.40	1800	527	4.47	1.31	4990	1462	7.43	2.18	220-240	13.60	29.98

LIGHT COMMERCIAL

M/HBP



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					-6.7°C (+20°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AZ0345YS	2.23	0.14	CSIR / RSIR	N	360	105	4.14	1.21	220-240	6.10	13.45
AZ0345YS	2.23	0.14	CSIR / RSIR	F	390	114	4.38	1.28	220-240	6.10	13.45
AZ0345YS	2.23	0.14	PTCSIR / RSIR	F	390	114	3.75	1.10	220	6.10	13.45
AZ0360YS	2.95	0.18	PTCSIR / RSIR	N	510	149	4.29	1.26	220-240	6.30	13.89
AZ0360YS	2.95	0.18	PTCSIR / RSIR	N	510	149	4.21	1.23	220	6.30	13.89
AZ0360YS	2.95	0.18	RSIR	F	520	152	4.37	1.28	220-240	6.30	13.89
AZ0360YS	2.95	0.18	PTCSIR / RSIR	F	520	152	4.16	1.22	220	6.30	13.89
AZ0387YS	4.00	0.25	PTCSIR / RSIR	F	755	221	4.97	1.46	220-240	7.13	15.71
AZ0411YS	5.59	0.34	CSIR / RSIR	F	985	289	4.80	1.41	220-240	7.40	16.31
AZA0395YXC	5.59	0.34	PTCSIR	F	985	289	4.58	1.34	220-240	7.40	16.31
AZ0413YS	5.91	0.36	CSIR / RSIR	F	1130	331	4.56	1.34	220-240	7.50	16.53





R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -6.7°C (+20°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
THK9370YGH	3.40	0.21	CSIR	F	640	188	5.52	1.62	230	8.00	17.64
THK0384YCG	4.00	0.25	PTCS_IR	F	755	221	5.10	1.49	230	7.20	15.87
THK9384YCG	4.00	0.25	CSIR	F	755	221	5.10	1.49	230	7.20	15.87
THK9384YXC	4.00	0.25	CSIR	F	755	221	5.10	1.49	220	7.20	15.87
THK0410YCG	5.01	0.31	PTCS_IR	F	940	275	5.37	1.57	230	8.40	18.52
THK9410YCG	5.01	0.31	CSIR	F	940	275	5.37	1.57	230	8.40	18.52
THK9412YJE	5.60	0.34	CSR	F	1080	316	6.35	1.86	230	8.30	18.30
THK9414YJE	6.58	0.40	CSR	F	1250	366	6.50	1.90	230	8.70	19.18
THK9414YGS	6.90	0.42	CSIR	F	1250	366	5.43	1.59	220	8.70	19.18
THK9414YUZ	6.90	0.42	CSIR	F	1250	366	5.43	1.59	220	8.70	19.18
THA0414YXC	6.96	0.43	RSIR	F	1380	404	5.43	1.59	220-240	7.76	17.11
THK9417YJE	8.21	0.50	CSR	F	1600	469	6.15	1.80	230	9.00	19.84



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
THK4420YCG	5.01	0.31	CSIR	F	1725	505	8.13	2.38	230	8.40	18.52
THK4420YGS	5.01	0.31	CSIR	F	1725	505	8.13	2.38	220	8.40	18.52
THK4420YUZ	5.01	0.31	CSIR	F	1725	505	8.13	2.38	220	8.40	18.52
THB4422YWZ	5.90	0.36	CSIR	F	1900	557	6.71	1.97	220-230	7.80	17.20
THK4428YFS	6.90	0.42	CSIR	F	2370	694	7.65	2.24	220	8.70	19.18
THK4428YFZ	6.90	0.42	CSIR	F	2370	694	7.65	2.24	220-240	8.70	19.18
THK4430YGS	8.21	0.50	CSR	F	2850	835	8.20	2.40	220	9.00	19.84
THK4430YUZ	8.21	0.50	CSR	F	2850	835	8.20	2.40	220	9.00	19.84





R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -6.7°C (+20°F)				ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TC4430Y-FZ1B	7.84	0.48	CSIR	F	1582	464	6.08	1.78	2800	820	8.24	2.41	220-240	9.00	19.84



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7,2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
TYA4452YKS	16.00	0.98	CSIR	F	4750	1392	7.20	2.11	220-240	17.00	37.48
TYA4466YKS	18.80	1.15	CSIR	F	5900	1729	6.98	2.05	220-240	17.50	38.58
TYA4475YKS	22.30	1.37	CSR	F	7100	2080	8.64	2.53	220-240	17.30	38.14
TYA4489YKS	26.00	1.60	CSR	F	8200	2403	8.37	2.45	220-240	18.60	41.01





R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB4410YXA	2.73	0.17	CSIR	N	457	134	4.97	1.46	869	255	7.32	2.14	417	122	4.98	1.46	748	219	6.76	1.98	100	7.40	16.31
THB4410YFZ	2.73	0.17	CSIR	N	480	141	5.14	1.51	907	266	7.79	2.28	420	123	5.03	1.47	772	226	7.13	2.09	220-240	7.40	16.31
THB4413YFZ	3.40	0.21	CSIR	N	562	165	4.63	1.36	1073	314	7.09	2.08	499	146	4.57	1.34	916	268	6.50	1.90	220-240	6.70	14.77
THB4413YXA	3.40	0.21	CSIR	N	621	182	5.22	1.53	1150	337	7.42	2.17	573	168	5.33	1.56	992	291	6.88	2.02	100	7.50	16.53
THB3413YFZ	3.40	0.21	PTCSIR	N	621	182	5.05	1.48	1150	337	7.33	2.15	572	168	5.10	1.49	992	291	6.78	1.99	220-240	7.50	16.53
THB4413YWZ	3.40	0.21	CSIR	N	586	172	4.71	1.38	1171	343	7.45	2.18	510	149	4.59	1.34	983	288	6.72	1.97	208-230	7.20	15.87
THB4415YFZ	4.00	0.25	CSIR	N	720	211	5.12	1.50	1318	386	7.53	2.21	623	183	4.95	1.45	1124	329	6.88	2.02	220-240	7.30	16.09
THB4415YXA	4.00	0.25	CSIR	N	722	212	5.25	1.54	1325	388	7.31	2.14	669	196	5.36	1.57	1143	335	6.81	2.00	100	7.70	16.98
THB4419YFZ	5.00	0.31	CSIR	N	848	248	5.09	1.49	1560	457	7.25	2.12	732	214	4.95	1.45	1322	387	6.63	1.94	220-240	7.40	16.31
THB4419YWZ	5.00	0.31	CSIR	N	848	248	4.81	1.41	1573	461	6.81	2.00	735	215	4.69	1.37	1332	390	6.19	1.81	208-230	7.20	15.87
THB4419YXA	5.00	0.31	CSIR	N	881	258	5.25	1.54	1602	469	7.14	2.09	814	239	5.36	1.57	1385	406	6.68	1.96	100	7.80	17.20
THB3419YFZ	5.00	0.31	PTCSIR	N	880	258	5.10	1.49	1602	469	7.00	2.05	814	239	5.19	1.52	1386	406	6.54	1.92	220-240	7.40	16.31
THB4422YFZ	5.90	0.36	CSIR	F	1035	303	5.06	1.48	1857	544	6.95	2.04	901	264	4.96	1.45	1587	465	6.42	1.88	220-240	7.40	16.31
THB4422YCZ	5.90	0.36	CSIR	F	1113	326	5.15	1.51	1941	569	6.79	1.99	1042	305	5.27	1.54	1688	495	6.39	1.87	208	7.80	17.20
THB4422YXA	5.90	0.36	CSIR	F	1113	326	5.27	1.54	1941	569	6.74	1.97	1042	305	5.44	1.59	1688	495	6.37	1.87	100	6.60	14.55
THB4422YGZ	5.90	0.36	CSIR	F	1113	326	4.93	1.44	1941	569	6.64	1.95	1042	305	5.02	1.47	1688	495	6.23	1.83	208-220	7.80	17.20
THB3422YFZ	5.90	0.36	PTCSIR	F	1112	326	5.27	1.54	1942	569	6.88	2.02	1041	305	5.41	1.59	1688	495	6.49	1.90	220-240	6.80	14.99





R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB4410YXA	2.73	0.17	CSIR	N	410	120	4.20	1.23	755	221	6.04	1.77	437	128	4.92	1.44	700	205	6.04	1.77	100	7.40	16.31
THB4410YFZ	2.73	0.17	CSIR	N	444	130	4.51	1.32	867	254	7.14	2.09	447	131	5.05	1.48	785	230	6.93	2.03	220-240	7.40	16.31
THB4413YXA	3.40	0.21	CSIR	N	553	162	4.44	1.30	997	292	6.15	1.80	601	176	5.26	1.54	932	273	6.15	1.80	100	7.50	16.53
THB3413YFZ	3.40	0.21	PTCSIR	N	553	162	4.27	1.25	997	292	6.08	1.78	601	176	5.05	1.48	932	273	6.08	1.78	220-240	7.50	16.53
THB4413YFZ	3.40	0.21	CSIR	N	519	152	4.06	1.19	1028	301	6.49	1.90	533	156	4.58	1.34	932	273	6.32	1.85	220-240	7.50	16.53
THB4413YWZ	3.40	0.21	CSIR	N	540	158	4.13	1.21	1120	328	6.83	2.00	543	159	4.61	1.35	1001	293	6.52	1.91	208-230	7.20	15.87
THB4415YXA	4.00	0.25	CSIR	N	645	189	4.44	1.30	1147	336	6.04	1.77	703	206	5.29	1.55	1072	314	6.08	1.78	100	7.70	16.98
THB4415YFZ	4.00	0.25	CSIR	N	663	194	4.47	1.31	1264	370	6.90	2.02	663	194	4.95	1.45	1144	335	6.69	1.96	220-240	7.30	16.09
THB4419YXA	5.00	0.31	CSIR	N	785	230	4.44	1.30	1390	407	5.91	1.73	857	251	5.29	1.55	1301	381	5.98	1.75	100	7.80	17.20
THB3419YFZ	5.00	0.31	PTCSIR	N	785	230	4.34	1.27	1390	407	5.81	1.70	854	250	5.12	1.50	1301	381	5.87	1.72	220-240	7.40	16.31
THB4419YFZ	5.00	0.31	CSIR	N	782	229	4.44	1.30	1496	438	6.63	1.94	779	228	4.95	1.45	1346	394	6.45	1.89	220-240	7.40	16.31
THB4419YWZ	5.00	0.31	CSIR	N	782	229	4.20	1.23	1506	441	6.22	1.82	782	229	4.71	1.38	1356	397	6.01	1.76	208-230	8.00	17.64
THB4422YCZ	5.90	0.36	CSIR	F	994	291	4.37	1.28	1684	493	5.63	1.65	1096	321	5.22	1.53	1585	464	5.74	1.68	208	7.80	17.20
THB4422YXA	5.90	0.36	CSIR	F	994	291	4.47	1.31	1684	493	5.57	1.63	1096	321	5.36	1.57	1585	464	5.70	1.67	100	7.90	17.42
THB4422YGZ	5.90	0.36	CSIR	F	994	291	4.17	1.22	1684	493	5.50	1.61	1096	321	4.95	1.45	1585	464	5.57	1.63	208-220	7.80	17.20
THB3422YFZ	5.90	0.36	PTCSIR	F	994	291	4.47	1.31	1684	493	5.70	1.67	1093	320	5.36	1.57	1585	464	5.81	1.70	220-240	7.40	16.31
THB4422YFZ	5.90	0.36	CSIR	F	953	279	4.44	1.30	1779	521	6.35	1.86	960	281	4.99	1.46	1619	474	6.25	1.83	220-240	7.40	16.31



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TC4430Y-GS1B	7.84	0.48	CSIR	F	1580	463	5.60	1.64	2850	835	8.03	2.35	220	8.60	18.96





R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TC4430Y-GS1B	7.84	0.48	CSIR	F	1638	480	5.61	1.64	2860	838	7.88	2.31	220	8.60	18.96



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Y-GS1A	6.69	0.41	CSIR	F	1150	337	5.14	1.51	2207	647	7.89	2.31	987	289	4.92	1.44	1864	546	7.14	2.09	220	9.10	20.06
AE4425Y-FZ1A	6.69	0.41	CSIR	F	1153	338	5.32	1.56	2209	647	8.03	2.35	994	291	5.18	1.52	1882	551	7.41	2.17	220 - 240	9.10	20.06
AE4430Y-XA1A	8.02	0.49	CSIR	F					2770	812	7.53	2.21									100	9.40	20.72
AE4430Y-FZ1A	8.02	0.49	CSIR	F	1511	443	5.66	1.66	2822	827	8.41	2.46	1303	382	5.49	1.61	2395	702	7.68	2.25	220 - 240	9.40	20.72
AE4430Y-XN1A	8.02	0.49	CSIR	F	1496	438	5.02	1.47	2831	829	7.72	2.26	1188	348	4.27	1.25	24040	7044	6.97	2.04	200-220	10.50	23.15
AE4440Y-FZ1A	10.33	0.63	CSIR	F	2015	590	5.84	1.71	3620	1061	8.13	2.38	1735	508	5.74	1.68	3070	900	7.45	2.18	220 - 240	9.60	21.16
AE4440Y-XN1A	10.33	0.63	CSIR	F	2030	595	5.65	1.66	3729	1093	8.16	2.39	1612	472	4.85	1.42	3163	927	7.41	2.17	200-220	10.60	23.37
AE4450Y-FZ1C	13.24	0.81	CSIR	F	2643	774	6.25	1.83	4733	1387	8.54	2.50	2295	672	6.22	1.82	4030	1181	7.89	2.31	220 - 240	10.70	23.59
AE4450Y-XN3C	13.24	0.81	CSR	F					4650	1362	8.53	2.50									200-220	11.00	24.25
AE4456Y-XN3C	14.51	0.89	CSR	F					5200	1524	9.04	2.65	2842	833	5.42	1.59	5203	1524	7.56	2.22	200-220	11.40	25.13
AE4456Y-FZ1C	14.51	0.89	CSIR	F	2910	853	5.91	1.73	5145	1507	8.09	2.37	2517	737	5.94	1.74	4378	1283	7.51	2.20	220 - 240	11.20	24.69
AE4460Y-FZ1C	15.09	0.93	CSIR	F	2940	861	5.87	1.72	5167	1514	7.82	2.29	2541	745	5.81	1.70	4401	1289	7.21	2.11	200-220	11.20	24.69
AE4460Y-FZ3C	15.09	0.93	CSR	F	3020	885	6.47	1.90	5368	1573	8.88	2.60	2611	765	6.38	1.87	4561	1336	8.16	2.39	220 - 240	11.20	24.69





R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Y-GS1A	6.69	0.41	CSIR	F	1059	310	4.50	1.32	2112	619	7.20	2.11	1050	308	4.92	1.44	1897	556	6.93	2.03	220	9.20	20.28
AE4425Y-FZ1A	6.69	0.41	CSIR	F	1062	311	4.65	1.36	2114	619	7.33	2.15	1058	310	5.18	1.52	1915	561	7.20	2.11	220-240	9.10	20.06
AE4430Y-GS1A	8.02	0.49	CSIR	F	1382	405	4.61	1.35	2678	785	7.49	2.19	1383	405	5.09	1.49	2412	707	7.23	2.12	220	9.60	21.16
AE4430Y-FZ1A	8.00	0.49	CSIR	F	1391	408	4.95	1.45	2700	791	7.68	2.25	1387	406	5.50	1.61	2437	714	7.46	2.19	220-240	9.70	21.38
AE4440Y-FZ1A	10.33	0.63	CSIR	F	1853	543	5.11	1.50	3457	1013	7.40	2.17	1845	541	5.75	1.68	3119	914	7.22	2.12	220-240	9.80	21.61
AE4440Y-GS1A	10.30	0.63	CSIR	F	1891	554	5.14	1.51	3515	1030	7.66	2.24	1883	552	5.72	1.68	3189	934	7.47	2.19	220	11.40	25.13
AE4450Y-FZ1C	13.24	0.81	CSIR	F	2430	712	5.44	1.59	4523	1325	7.80	2.29	2440	715	6.20	1.82	4093	1199	7.66	2.24	220-240	11.70	25.79
AE4450Y-GS3C	13.24	0.81	CSR	F	2429	712	5.56	1.63	4571	1339	8.29	2.43	2414	707	6.19	1.81	4120	1207	8.00	2.34	220	11.30	24.91
AE4456Y-FZ1C	14.51	0.89	CSIR	F	2677	784	5.17	1.51	4915	1440	7.39	2.17	2676	784	5.93	1.74	4448	1303	7.28	2.13	220-240	11.50	25.35
AE4460Y-FZ1C	15.09	0.93	CSIR	F	2704	792	5.12	1.50	4936	1446	7.13	2.09	2701	791	5.81	1.70	4471	1310	6.99	2.05	220-240	11.20	24.69
AE4456Y-GS3C	14.51	0.89	CSR	F	2659	779	5.31	1.56	4975	1458	7.97	2.34	2633	771	5.83	1.71	4476	1311	7.67	2.25	220	11.40	25.13
AE4460Y-GS3C	15.09	0.93	CSR	F	2681	786	4.93	1.44	5017	1470	7.40	2.17	2651	777	5.47	1.60	4514	1323	7.10	2.08	220	11.30	24.91
AE4460Y-FZ3C	15.09	0.93	CSR	F	2783	815	5.66	1.66	5136	1505	8.12	2.38	2779	814	6.38	1.87	4641	1360	7.92	2.32	220-240	11.30	24.91



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ENI2900 (R-134a)								Voltage (V)	Weight	
					-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AL4461Y-FZ1A	17.71	1.09	CSIR	F	2956	866	6.37	1.87	5120	1500	8.14	2.39	220-240	13.10	28.88



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ENI2900 (R-513A)								Voltage (V)	Weight	
					-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AL4461Y-FZ1A	17.71	1.09	CSIR	F	3055	895	6.18	1.81	5150	1509	7.80	2.29	220-240	13.10	28.88



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a / R-513A)								ARI (R-134a / R-513A)								ENI2900 (R-134a / R-513A)				Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4461Y-XA3B	15.63	0.95	CSR	F	-	-	-	-	5120	1500	9.13	2.68	-	-	-	-	-	-	-	-	-	-	-	-	100	35.00	77.16
AK4461Y-FZ3B	15.63	0.95	CSR	F	2619	767	6.80	1.99	5440	1594	10.28	3.01	2511	736	6.50	1.90	5090	1491	9.71	2.85	4685	1373	9.56	2.80	220-240	35.00	77.16
AK4468Y-XA3B	17.45	1.07	CSR	F	-	-	-	-	5625	1648	9.15	2.68	-	-	-	-	-	-	-	-	-	-	-	-	100	35.00	77.16
AK4481Y-FZ3B	20.43	1.25	CSR	F	3804	1115	7.10	2.08	6814	1997	9.60	2.81	3401	996	6.20	1.82	6471	1896	9.15	2.68	5843	1712	8.53	2.50	220-240	35.00	77.16
AK4481Y-XA3B	20.43	1.25	CSR	F	-	-	-	-	7010	2054	9.30	2.72	-	-	-	-	-	-	-	-	-	-	-	-	100	35.00	77.16
AK4481Y-XD3B	20.43	1.25	CSR	F	4460	1307	6.50	1.90	8173	2395	9.37	2.75	3890	1140	5.80	1.70	7677	2249	8.38	2.46	-	-	-	-	200	35.00	77.16
AK4510Y-XA3B	25.68	1.57	CSR	F	-	-	-	-	8643	2532	8.91	2.61	-	-	-	-	-	-	-	-	-	-	-	-	100	35.00	77.16



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425N-FZ1A	6.70	0.41	CSIR	F	1153	338	5.32	1.56	2209	647	8.03	2.35	994	291	5.18	1.52	1882	551	7.41	2.17	220-240	9.00	19.84
AE4430N-FZ1A	8.02	0.49	CSIR	F	1511	443	5.66	1.66	2822	827	8.41	2.46	1303	382	5.49	1.61	2395	702	7.68	2.25	220-240	9.40	20.72
AE4440N-FZ1A	10.33	0.63	CSIR	F	2012	590	5.84	1.71	3613	1059	8.10	2.37	1733	508	5.74	1.68	3065	898	7.44	2.18	220-240	9.70	21.38
AE4450N-FZ1C	13.24	0.81	CSIR	F	2638	773	6.23	1.83	4727	1385	8.53	2.50	2292	672	6.19	1.81	4022	1178	7.88	2.31	220-240	11.20	24.69
AE4456N-FZ1C	14.51	0.89	CSIR	F	2905	851	5.91	1.73	5137	1505	8.09	2.37	2513	736	5.92	1.73	4371	1281	7.50	2.20	220-240	11.30	24.91
AE4460N-FZ1C	15.09	0.93	CSIR	F	2936	860	5.86	1.72	5159	1512	7.80	2.29	2538	744	5.80	1.70	4395	1288	7.20	2.11	220-240	11.40	25.13



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425N-FZ1A	6.70	0.41	CSIR	F	1062	311	4.65	1.36	2114	619	7.33	2.15	1058	310	5.18	1.52	1915	561	7.20	2.11	220-240	9.00	19.84
AE4430N-FZ1A	8.02	0.49	CSIR	F	1391	408	4.95	1.45	2700	791	7.68	2.25	1387	406	5.50	1.61	2437	714	7.46	2.19	220-240	9.40	20.72
AE4440N-FZ1A	10.33	0.63	CSIR	F	1853	543	5.11	1.50	3457	1013	7.40	2.17	1845	541	5.75	1.68	3119	914	7.22	2.12	220-240	9.70	21.38
AE4450N-FZ1C	13.24	0.81	CSIR	F	2430	712	5.44	1.59	4523	1325	7.80	2.29	2440	715	6.20	1.82	4093	1199	7.66	2.24	220-240	11.20	24.69
AE4456N-FZ1C	14.51	0.89	CSIR	F	2677	784	5.17	1.51	4915	1440	7.39	2.17	2676	784	5.93	1.74	4448	1303	7.28	2.13	220-240	11.30	24.91
AE4460N-FZ1C	15.09	0.93	CSIR	F	2704	792	5.12	1.50	4936	1446	7.13	2.09	2701	791	5.81	1.70	4471	1310	6.99	2.05	220-240	11.40	25.13



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-1234yf)								ENI2900 (R-1234yf)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425N-FZ1A	6.70	0.41	CSIR	F	1215	356	5,50	1,61	2202	645	8,00	2,34	946	277	4,75	1,39	1721	504	6,70	1,96	220-240	9.00	19.84
AE4430N-FZ1A	8.02	0.49	CSIR	F	1479	433	5.27	1.54	2700	791	7.87	2.31	1320	387	5.25	1.54	2275	667	7.08	2.07	220-240	9.40	20.72
AE4440N-FZ1A	10.33	0.63	CSIR	F	1930	565	5.46	1.60	3350	982	7.49	2.19	1755	514	5.49	1.61	2912	853	6.86	2.01	220-240	9.70	21.38
AE4450N-FZ1C	13.24	0.81	CSIR	F	2657	779	5.99	1.76	4550	1333	8.07	2.36	2322	680	4.92	1.44	3821	1120	7.27	2.13	220-240	11.20	24.69
AE4456N-FZ1C	14.51	0.89	CSIR	F	2895	848	5.87	1.72	4900	1436	7.77	2.28	2470	724	5.66	1.66	4000	1172	6.91	2.02	220-240	11.30	24.91
AE4460N-FZ1C	15.09	0.93	CSIR	F	2943	862	5.74	1.68	5000	1465	7.60	2.23	2570	753	5.55	1.63	4174	1223	6.64	1.95	220-240	11.40	25.13



R-401A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4440A-FZ1A	10.33	0.63	CSIR	F	2264	663	6.05	1.77	3900	1143	8.26	2.42	220-240	9.60	21.16
AE4450A-FZ1C	13.24	0.81	CSIR	F	3015	883	6.29	1.84	5100	1494	8.43	2.47	220-240	11.20	24.69



R-404A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					+7.2°C (+45°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE4425Z-XN1A	4.24	0.26	CSIR	F	2350	689	7.58	2.22	200-220	9.50	20.94
AE4450Z-GS3C	8.85	0.54	CSR	F	4900	1436	8.51	2.49	220	11.70	25.79
AE4450Z-XN3C	8.85	0.54	CSR	F	4900	1436	8.51	2.49	200-220	11.70	25.79
AE4460Z-FZ1B	10.33	0.63	CSIR	F	5650	1655	7.64	2.24	220-240	11.30	24.91



R-404A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -6.7°C (+20°F) Capacity		ASHRAE -6.7°C (+20°F) Efficiency		ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TYA9456ZKS	19.00	1.17	CSIR	F	4900	1436	5.05	1.48	9035	2647	7.23	2.12	220-240	17.54	38.67
TYA9472ZKS	22.30	1.37	CSR	F	6000	1758	5.35	1.57	10900	3194	7.57	2.22	220-240	17.20	37.92
TYA9486ZKS	26.00	1.60	CSR	F	7125	2088	5.20	1.52	12806	3752	6.97	2.04	220-240	17.50	38.58



R-404A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE -6.7°C (+20°F) Capacity		STANDARD TE -6.7°C (+20°F) Efficiency		STANDARD TE +7.2°C (+45°F) Capacity		STANDARD TE +7.2°C (+45°F) Efficiency		EN12900 -10°C (+14°C) Capacity		EN12900 -10°C (+14°C) Efficiency		EN12900 +5°C (+41°F) Capacity		EN12900 +5°C (+41°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
HG4467Z-FZ3A	9.52	0.58	CSR / PSC	F	2981	873	5.44	1.59	5122	1501	8.57	2.51	3066	898	6.70	1.96	4650	1362	8.62	2.53	220-240	10.90	24.03
HG4492Z-FZ3A	12.74	0.78	CSR	F	4008	1174	5.51	1.61	6912	2025	8.72	2.55	4133	1211	6.78	1.99	6300	1846	8.77	2.57	220-240	11.40	25.13
HG4512Z-FZ3A	16.11	0.99	CSR	F	5124	1501	5.53	1.62	8733	2559	8.49	2.49	5312	1556	6.74	1.97	8000	2344	8.55	2.51	220-240	12.00	26.46





R-22

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -6.7°C (+20°F) Capacity		ASHRAE -6.7°C (+20°F) Efficiency		ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		EN12900 -10°C (+14°C) Capacity		EN12900 -10°C (+14°C) Efficiency		EN12900 +5°C (+41°F) Capacity		EN12900 +5°C (+41°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425E-FZ1A	4.24	0.26	CSIR	F	-	-	-	-	2150	630	8.40	2.46	1072	314	5.40	1.58	1912	560	7.98	2.34	220-240	9.70	21.38
AE4425E-GS1A	4.24	0.26	CSIR	F	-	-	-	-	2150	630	7.54	2.21	1048	307	4.80	1.41	1925	564	7.35	2.15	220	9.50	20.94
AE4430E-FZ1A	5.16	0.32	CSIR	F	-	-	-	-	2650	776	8.33	2.44	1375	403	5.97	1.75	2399	703	8.37	2.45	220-240	10.60	23.37
AE4430E-GS1A	5.16	0.32	CSIR	F	-	-	-	-	2650	776	8.13	2.38	1282	376	5.31	1.56	2300	674	7.80	2.29	220	10.60	23.37
AE4440E-FZ1A	6.69	0.41	CSIR	F	-	-	-	-	3300	967	8.05	2.36	1771	519	5.98	1.75	3096	907	8.29	2.43	220-240	10.20	22.49
AE4440E-FZ1B	6.69	0.41	CSR	F	1842	540	5.42	1.59	3371	988	8.30	2.43	1773	519	5.98	1.75	3098	908	8.29	2.43	220 - 240	11.00	24.25
AE4440E-GS1B	6.69	0.41	CSIR	F	-	-	-	-	3400	996	8.06	2.36	1700	498	5.80	1.70	3014	883	8.22	2.41	220	10.60	23.37
AE4450E-FZ1B	8.02	0.49	CSIR	F	2313	678	5.61	1.64	4100	1201	8.25	2.42	2145	628	6.15	1.80	3748	1098	8.37	2.45	220-240	11.20	24.69
AE4450E-GS1B	8.02	0.49	CSIR	F	-	-	-	-	4150	1216	8.63	2.53	2128	624	6.27	1.84	3692	1082	8.56	2.51	220	11.30	24.91
AE4456E-FZ1B	9.39	0.58	CSIR	F	-	-	-	-	4850	1421	8.11	2.38	2478	726	6.13	1.80	4268	1251	8.08	2.37	220-240	11.20	24.69
AE4460E-FZ1B	10.33	0.63	CSIR	F	3007	881	5.45	1.60	5250	1538	8.08	2.37	2736	802	5.77	1.69	4852	1422	7.91	2.32	220-240	11.20	24.69
AE4470E-FZ3C	13.24	0.81	CSR	F	-	-	-	-	6700	1963	8.21	2.41	3664	1074	6.38	1.87	6128	1796	8.45	2.48	220-240	11.10	24.47



R-22

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -6.7°C (+20°F) Capacity		ASHRAE -6.7°C (+20°F) Efficiency		ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TYA9448EKS	16.00	0.98	CSIR	F	3300	967	4.29	1.26	6800	1992	6.90	2.02	220-240	17.80	39.24
TYA9455EKS	18.80	1.15	CSIR	F	4200	1231	4.57	1.34	8200	2403	6.98	2.05	220-240	18.10	39.90
TYA9467EKS	22.30	1.37	CSR	F	5000	1465	5.05	1.48	9800	2871	7.72	2.26	220-240	19.30	42.55
TYA9474EKS	26.00	1.60	CSR	F	6030	1767	4.80	1.41	-	-	-	-	220-240	17.60	38.80





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB3428ZXA	5.20	0.32	RSIR	F	1291	378	5.60	1.64	2311	677	5.60	1.64	1334	391	4.47	1.31	2093	613	5.46	1.60	100	7.20	15.87
THB4428ZFZ	5.20	0.32	CSIR	F	1314	385	5.48	1.61	2362	692	5.91	1.73	1367	401	4.13	1.21	2142	628	5.27	1.54	220-240	8.20	18.08



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE(R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB3428ZXA	5.20	0.32	RSIR	F	1316	386	4.11	1.20	2401	703	5.94	1.74	1297	380	4.62	1.35	2170	636	5.85	1.71	100	7.20	15.87
THB4428ZFZ	5.20	0.31	CSIR	F	1337	392	3.86	1.13	2460	721	5.89	1.73	1324	388	4.27	1.25	2222	651	5.70	1.67	220-240	8.20	18.08



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB3428ZXA	5.00	0.31	RSIR	F	1313	385	4.10	1.20	2399	703	5.94	1.74	1294	379	4.61	1.35	2166	635	5.84	1.71	100	7.20	15.87
THB4428ZFZ	5.00	0.31	CSIR	F	1334	391	3.86	1.13	2459	720	5.89	1.73	1321	387	4.27	1.25	2219	650	5.69	1.67	220-240	8.20	18.08



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB3428ZXA	5.00	0.31	RSIR	F	1293	379	3.92	1.15	2353	689	5.68	1.66	1322	387	4.52	1.32	2118	621	5.54	1.62	100	7.20	15.87
THB4428ZFZ	5.00	0.31	CSIR	F	1314	385	3.67	1.08	2410	706	5.61	1.64	1351	396	4.18	1.22	2168	635	5.37	1.57	220-240	8.20	18.08



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Z-FZ1A	4.24	0.26	CSIR	F	1066	312	4.26	1.25	2300	674	7.69	2.25	1115	327	5.02	1.47	1862	546	6.76	1.98	220-240	9.65	21.27
AE4425Z-GS1A	4.24	0.26	CSIR	F	1075	315	4.06	1.19	2350	689	7.58	2.22	1122	329	4.70	1.38	1862	546	6.43	1.88	220	10.70	23.59
AE4430Z-FZ1A	5.16	0.32	CSIR	F	1325	388	4.40	1.29	2800	820	7.98	2.34	1381	405	5.18	1.52	2260	662	6.81	2.00	220-240	9.70	21.38
AE4430Z-GS1A	5.16	0.32	CSIR	F	1320	387	4.34	1.27	2850	835	8.05	2.36	1389	407	5.06	1.48	2288	670	6.81	2.00	220	9.80	21.61
AE4440Z-FZ1A	6.69	0.41	CSIR	F	1783	522	4.60	1.35	3600	1055	7.79	2.28	1867	547	5.46	1.60	3049	893	7.10	2.08	220-240	10.20	22.49
AE4440Z-GS1C	6.69	0.41	CSIR	F	1731	507	4.34	1.27	3650	1069	7.40	2.17	1816	532	4.99	1.46	2994	877	6.78	1.99	220	10.40	22.93
AE4450Z-FZ1A	8.85	0.54	CSIR	F	2348	688	4.58	1.34	4800	1406	7.57	2.22	2464	722	5.51	1.61	3930	1151	6.83	2.00	220-240	10.50	23.15
AE4450Z-FS1B	8.85	0.54	CSIR	F	2437	714	4.62	1.35	4850	1421	7.65	2.24	2541	745	5.40	1.58	4050	1187	6.90	2.02	220	11.30	24.91
AE4450Z-GS3B	8.85	0.54	CSR	F	2442	716	4.79	1.40	4900	1436	8.15	2.39	2549	747	5.55	1.63	4079	1195	7.25	2.12	220	11.30	24.91
AE4460Z-FZ1C	10.33	0.63	CSIR	F	2851	835	4.72	1.38	5650	1655	7.64	2.24	2993	877	5.70	1.67	4655	1364	6.87	2.01	220-240	11.35	25.02
AE4460Z-GS3C	10.33	0.63	CSR	F	2837	831	4.83	1.42	5750	1685	8.17	2.39	2921	856	5.56	1.63	4694	1375	7.24	2.12	220	11.60	25.57
AE4470Z-FZ3C	12.01	0.74	CSR	F	3416	1001	4.92	1.44	6600	1934	7.81	2.29	3540	1037	5.69	1.67	5458	1599	7.09	2.08	220-240	11.50	25.35
AE4470Z-FS3C	12.01	0.74	CSR	F	3292	965	4.69	1.37	6700	1963	8.00	2.34	3432	1006	5.48	1.61	5393	1580	6.92	2.03	220-240	11.50	25.35



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Z-GS1A	4.24	0.26	CSIR	F	1095	321	4.40	1.29	2153	631	7.28	2.13	1088	319	4.89	1.43	1937	568	7.02	2.06	220	10.70	23.59
AE4425Z-FZ1A	4.20	0.26	CSIR	F	1085	318	4.58	1.34	2156	632	7.55	2.21	1080	316	5.19	1.52	1939	568	7.35	2.15	220 - 240	10.00	22.05
AE4430Z-FZ1A	5.16	0.32	CSIR	F	1345	394	4.71	1.38	2603	763	7.52	2.20	1339	392	5.35	1.57	2349	688	7.37	2.16	220 - 240	9.70	21.38
AE4430Z-GS1A	5.16	0.32	CSIR	F	1341	393	4.67	1.37	2624	769	7.64	2.24	1347	395	5.25	1.54	2376	696	7.41	2.17	220	11.00	24.25
AE4440Z-GS1C	6.69	0.41	CSIR	F	1764	517	4.70	1.38	3473	1018	7.71	2.26	1757	515	5.19	1.52	3117	913	7.40	2.17	220	11.30	24.91
AE4440Z-FZ1A	6.69	0.41	CSIR	F	1812	531	4.93	1.44	3522	1032	7.87	2.31	1806	529	5.62	1.65	3170	929	7.69	2.25	220 - 240	10.20	22.49
AE4450Z-FZ1A	8.85	0.54	CSIR	F	2381	698	4.88	1.43	4504	1320	7.43	2.18	2379	697	5.64	1.65	4073	1193	7.34	2.15	220 - 240	10.70	23.59
AE4450Z-FS1B	8.85	0.54	CSIR	F	2474	725	4.97	1.46	4656	1364	7.70	2.26	2455	719	5.57	1.63	4201	1231	7.48	2.19	220	10.80	23.81
AE4450Z-GS3B	8.85	0.54	CSR	F	2477	726	5.15	1.51	4684	1372	8.12	2.38	2465	722	5.74	1.68	4231	1240	7.87	2.31	220	11.00	24.25
AE4460Z-FZ1C	10.33	0.63	CSIR	F	2883	845	5.02	1.47	5350	1568	7.49	2.19	2880	844	5.82	1.71	4825	1414	7.38	2.16	220 - 240	11.50	25.35
AE4460Z-GS3C	10.33	0.63	CSR	F	2890	847	5.21	1.53	5491	1609	8.25	2.42	2823	827	5.74	1.68	4895	1434	7.89	2.31	220	11.60	25.57
AE4470Z-FS3C	12.01	0.74	CSR	F	3332	976	5.03	1.47	6209	1819	7.73	2.26	3311	970	5.65	1.66	5596	1640	7.50	2.20	220	11.50	25.35
AE4470Z-FZ3C	12.01	0.74	CSR	F	3460	1014	5.28	1.55	6287	1842	7.91	2.32	3411	999	5.87	1.72	5658	1658	7.67	2.25	220 - 240	12.30	27.12



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Z-GS1A	4.24	0.26	CSIR	F	1092	320	4.39	1.29	2152	631	7.28	2.13	1086	318	4.88	1.43	1934	567	7.01	2.05	220	10.70	23.59
AE4425Z-FZ1A	4.20	0.26	CSIR	F	1082	317	4.57	1.34	2155	631	7.54	2.21	1078	316	5.18	1.52	1936	567	7.34	2.15	220 - 240	10.00	22.05
AE4430Z-FZ1A	5.16	0.32	CSIR	F	1342	393	4.70	1.38	2602	762	7.52	2.20	1336	391	5.34	1.56	2345	687	7.36	2.16	220 - 240	9.70	21.38
AE4430Z-GS1A	5.16	0.32	CSIR	F	1337	392	4.66	1.37	2622	768	7.63	2.24	1344	394	5.24	1.54	2372	695	7.40	2.17	220	11.00	24.25
AE4440Z-GS1C	6.69	0.41	CSIR	F	1760	516	4.69	1.37	3470	1017	7.71	2.26	1753	514	5.18	1.52	3111	912	7.38	2.16	220	11.30	24.91
AE4440Z-FZ1A	6.69	0.41	CSIR	F	1808	530	4.92	1.44	3519	1031	7.86	2.30	1802	528	5.61	1.64	3165	927	7.68	2.25	220 - 240	10.20	22.49
AE4450Z-FZ1A	8.85	0.54	CSIR	F	2375	696	4.87	1.43	4501	1319	7.42	2.17	2374	696	5.64	1.65	4066	1191	7.33	2.15	220 - 240	10.70	23.59
AE4450Z-FS1B	8.85	0.54	CSIR	F	2468	723	4.96	1.45	4654	1364	7.70	2.26	2451	718	5.56	1.63	4194	1229	7.46	2.19	220	10.80	23.81
AE4450Z-GS3B	8.85	0.54	CSR	F	2471	724	5.14	1.51	4681	1372	8.11	2.38	2460	721	5.74	1.68	4224	1238	7.86	2.30	220	11.00	24.25
AE4460Z-FZ1C	10.33	0.63	CSIR	F	2877	843	5.01	1.47	5347	1567	7.49	2.19	2875	842	5.81	1.70	4818	1412	7.37	2.16	220 - 240	11.50	25.35
AE4460Z-GS3C	10.33	0.63	CSR	F	2883	845	5.20	1.52	5488	1608	8.25	2.42	2817	825	5.73	1.68	4887	1432	7.88	2.31	220	11.60	25.57
AE4470Z-FS3C	12.01	0.74	CSR	F	3324	974	5.02	1.47	6206	1818	7.73	2.26	3304	968	5.65	1.66	5587	1637	7.49	2.19	220	11.50	25.35
AE4470Z-FZ3C	12.01	0.74	CSR	F	3452	1011	5.27	1.54	6284	1841	7.90	2.31	3405	998	5.86	1.72	5649	1655	7.66	2.24	220 - 240	12.30	27.12



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Z-GS1A	4.24	0.26	CSIR	F	1073	314	4.16	1.22	2104	616	6.91	2.02	1108	325	4.76	1.39	1886	553	6.60	1.93	220	10.70	23.59
AE4425Z-FZ1A	4.20	0.26	CSIR	F	1064	312	4.35	1.27	2106	617	7.17	2.10	1100	322	5.07	1.49	1887	553	6.91	2.02	220 - 240	10.00	22.05
AE4430Z-FZ1A	5.16	0.32	CSIR	F	1320	387	4.48	1.31	2546	746	7.16	2.10	1364	400	5.23	1.53	2288	670	6.94	2.03	220 - 240	9.70	21.38
AE4430Z-GS1A	5.16	0.32	CSIR	F	1315	385	4.43	1.30	2567	752	7.26	2.13	1371	402	5.12	1.50	2315	678	6.97	2.04	220	11.00	24.25
AE4440Z-GS1C	6.69	0.41	CSIR	F	1729	507	4.45	1.30	3392	994	7.32	2.14	1790	524	5.06	1.48	3034	889	6.95	2.04	220	11.30	24.91
AE4440Z-FZ1A	6.69	0.41	CSIR	F	1778	521	4.68	1.37	3442	1009	7.48	2.19	1841	539	5.50	1.61	3088	905	7.24	2.12	220 - 240	10.20	22.49
AE4450Z-FZ1A	8.85	0.54	CSIR	F	2338	685	4.65	1.36	4409	1292	7.08	2.07	2427	711	5.53	1.62	3972	1164	6.93	2.03	220 - 240	10.70	23.59
AE4450Z-FS1B	8.85	0.54	CSIR	F	2429	712	4.72	1.38	4557	1335	7.32	2.14	2505	734	5.45	1.60	4096	1200	7.04	2.06	220	10.80	23.81
AE4450Z-GS3B	8.85	0.54	CSR	F	2433	713	4.89	1.43	4584	1343	7.72	2.26	2514	737	5.61	1.64	4125	1209	7.41	2.17	220	11.00	24.25
AE4460Z-FZ1C	10.33	0.63	CSIR	F	2835	831	4.79	1.40	5237	1534	7.15	2.09	2943	862	5.71	1.67	4706	1379	6.97	2.04	220 - 240	11.50	25.35
AE4460Z-GS3C	10.33	0.63	CSR	F	2835	831	4.94	1.45	5361	1571	7.83	2.29	2881	844	5.61	1.64	4764	1396	7.42	2.17	220	11.60	25.57
AE4470Z-FS3C	12.01	0.74	CSR	F	3275	960	4.78	1.40	6077	1781	7.36	2.16	3381	991	5.53	1.62	5457	1599	7.07	2.07	220	11.50	25.35
AE4470Z-FZ3C	12.01	0.74	CSR	F	3402	997	5.02	1.47	6155	1803	7.53	2.21	3486	1021	5.75	1.68	5520	1617	7.23	2.12	220 - 240	12.30	27.12



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A)								ARI (R-404A)								ENI2900 (R-404A)				Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4510Z-XA3B	15.63	0.95	CSR	F	-	-	-	-	8190	2400	8.19	2.40	-	-	-	-	-	-	-	-	-	-	-	-	100	35.00	77.16
AK4510Z-FZ3B	15.63	0.95	CSR	F	4814	1411	6.55	1.92	8244	2415	9.30	2.72	4323	1267	6.20	1.82	7513	2201	8.47	2.48	6641	1946	8.53	2.50	100	35.00	77.16
AK4511Z-XA3B	17.45	1.07	CSR	F	-	-	-	-	8882	2602	8.50	2.49	-	-	-	-	-	-	-	-	-	-	-	-	100	35.00	77.16
AK4511Z-XD3B	17.45	1.07	CSR	F	-	-	-	-	9469	2774	9.05	2.65	-	-	-	-	-	-	-	-	-	-	-	-	200	35.00	77.16
AK4513Z-XD3B	20.43	1.25	CSR	F	-	-	-	-	10759	3152	8.40	2.46	-	-	-	-	-	-	-	-	-	-	-	-	200	35.00	77.16
AK4513Z-XA3B	20.43	1.25	CSR	F	-	-	-	-	10830	3173	8.40	2.46	-	-	-	-	-	-	-	-	-	-	-	-	100	35.00	77.16
AK4513Z-FZ3B	20.43	1.25	CSR	F	6058	1775	6.13	1.80	10882	3188	8.88	2.60	5440	1594	5.80	1.70	1063	311	8.90	2.61	8473	2715	8.14	2.40	200	35.00	77.16



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-448A/R-449A)								ARI (R-448A/R-449A)								ENI2900 (R-448A/R-449A)				Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4510Z-FZ3B	15.63	0.95	CSR	F	4466	1309	6.66	1.95	8191	2400	10.00	2.93	4011	1175	6.30	1.85	7693	2254	9.36	2.74	7885	2310	10.47	3.07	100	35.00	77.16
AK4510Z-XA3B	15.63	0.95	CSR	F	5412	1586	6.42	1.88	9776	2864	9.22	2.70	4860	1424	6.08	1.78	9162	2684	8.65	2.53	-	-	-	-	100	35.00	77.16
AK4511Z-XA3B	17.45	1.07	CSR	F	5574	1633	6.27	1.84	10245	3002	8.88	2.60	5005	1466	5.93	1.74	9590	2810	8.30	2.43	-	-	-	-	100	35.00	77.16
AK4513Z-FZ3B	20.43	1.25	CSR	F	6172	1808	6.75	1.98	10726	3143	9.49	2.78	5542	1624	6.39	1.87	10226	2996	9.00	2.64	9297	2724	8.87	2.60	200	35.00	77.16
AK4511Z-XD3B	17.45	1.07	CSR	F	5948	1743	6.23	1.83	10916	3198	9.21	2.70	5341	1565	5.90	1.73	10447	3061	8.81	2.58	-	-	-	-	200	35.00	77.16
AK4513Z-XD3B	20.43	1.25	CSR	F	6815	1997	5.49	1.61	11191	3279	7.95	2.33	6120	1793	5.20	1.52	10615	3110	7.60	2.23	-	-	-	-	200	35.00	77.16
AK4513Z-XA3B	20.43	1.25	CSR	F	6950	2036	6.05	1.77	12385	3629	8.49	2.49	6241	1829	5.73	1.68	12047	3530	8.30	2.43	-	-	-	-	100	35.00	77.16





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-452A)								ARI (R-452A)								ENI2900 (R-452A)				Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4510Z-FZ3B	15.63	0.95	CSR	F	4488	1315	6.33	1.85	8339	2443	9.74	2.85	4030	1181	5.99	1.76	7623	2234	8.89	2.60	6968	2042	8.75	2.56	100	35.00	77.16
AK4510Z-XA3B	15.63	0.95	CSR	F	5365	1572	5.95	1.74	9841	2883	8.75	2.56	4818	1412	5.63	1.65	9094	2665	8.10	2.37	-	-	-	-	100	35.00	77.16
AK4511Z-XA3B	17.45	1.07	CSR	F	5402	1583	5.77	1.69	10316	3023	8.52	2.50	4851	1421	5.46	1.60	10333	3028	7.99	2.34	-	-	-	-	100	35.00	77.16
AK4513Z-FZ3B	20.43	1.25	CSR	F	5955	1745	6.16	1.80	10895	3192	9.16	2.68	5347	1567	5.83	1.71	10090	2956	8.44	2.47	9183	2689	8.33	2.44	200	35.00	77.16
AK4511Z-XD3B	17.45	1.07	CSR	F	5922	1735	5.91	1.73	11123	3259	9.01	2.64	5318	1558	5.59	1.64	10306	3020	8.36	2.45	-	-	-	-	200	35.00	77.16
AK4513Z-XD3B	20.43	1.25	CSR	F	6846	2006	5.75	1.68	11968	3507	8.10	2.37	6147	1801	5.44	1.59	11720	3434	7.90	2.31	-	-	-	-	200	35.00	77.16
AK4513Z-XA3B	20.43	1.25	CSR	F	6950	2036	6.05	1.77	12701	3721	8.31	2.43	6241	1829	5.73	1.68	11829	3466	7.76	2.27	-	-	-	-	100	35.00	77.16



R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C)								ENI2900 (R-454C)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425P-FZ1A	4.24	0.26	CSIR	F	1059	310	5.27	1.54	1960	574	8.17	2.39	985	289	5.15	1.51	1710	501	7.21	2.11	220-240	9.65	21.27
AE4430P-FZ1A	5.16	0.32	CSIR	F	1341	393	5.51	1.61	2440	715	8.38	2.46	1238	363	5.36	1.57	2128	624	7.40	2.17	220-240	9.70	21.38
AE4440P-FZ1A	6.69	0.41	CSIR	F	1621	475	5.30	1.55	2910	853	7.84	2.30	1510	442	5.18	1.52	2539	744	6.92	2.03	220-240	10.70	23.59
AE4450P-FZ1A	8.85	0.54	CSIR	F	2405	705	5.80	1.70	4250	1245	8.37	2.45	2217	650	5.67	1.66	3699	1084	7.38	2.16	220-240	10.70	23.59
AE4460P-FZ1B	10.33	0.63	CSIR	F	2845	834	5.96	1.75	4950	1450	8.48	2.48	2607	764	5.80	1.70	4303	1261	7.46	2.19	220-240	11.30	24.91
AE4470P-FZ3C	12.01	0.74	CSR	F	3338	978	5.83	1.71	5820	1705	8.55	2.51	3034	889	5.56	1.63	5050	1480	7.49	2.19	220-240	11.50	25.35



R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A)								ENI2900 (R-455A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425P-FZ1A	4.24	0.26	CSIR	F	1134	332	5.33	1.56	2070	607	8.15	2.39	1101	323	5.29	1.55	1865	546	7.24	2.12	220-240	9.65	21.27
AE4430P-FZ1A	5.16	0.32	CSIR	F	1433	420	5.57	1.63	2574	754	8.36	2.45	1382	405	5.49	1.61	2319	679	7.43	2.18	220-240	9.70	21.38
AE4440P-FZ1A	6.69	0.41	CSIR	F	1732	507	5.35	1.57	3070	900	7.82	2.29	1681	493	5.29	1.55	2763	810	6.92	2.03	220-240	10.70	23.59
AE4450P-FZ1A	8.85	0.54	CSIR	F	2541	745	5.77	1.69	4520	1324	8.37	2.45	2469	723	5.78	1.69	4023	1179	7.35	2.15	220-240	10.70	23.59
AE4460P-FZ1B	10.33	0.63	CSIR	F	3039	890	6.02	1.76	5222	1530	8.45	2.48	2902	850	5.90	1.73	4679	1371	7.43	2.18	220-240	11.30	24.91
AE4470P-FZ3C	12.01	0.74	CSR	F	3568	1045	6.04	1.77	6220	1822	8.75	2.56	3382	991	5.70	1.67	5500	1612	7.50	2.20	220-240	11.50	25.35



R-290

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								ENI2900								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TC4425U-GS1B	4.75	0.29	CSIR	F	1330	390	6.24	1.83	2250	659	9.34	2.74	1165	341	6.20	1.82	1931	566	8.64	2.53	220	8.69	19.16
TC4430U-FZ1B	6.06	0.37	CSIR	F	1770	519	6.59	1.93	2900	850	9.32	2.73	1696	497	7.25	2.12	2731	800	9.55	2.80	220-240	8.56	18.87
TC4440U-FZ1B	7.84	0.48	CSIR	F	2242	657	5.93	1.74	3710	1087	8.34	2.44	1962	575	5.88	1.72	3160	926	7.64	2.24	220-240	8.61	18.98



R-290

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								ENI2900								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425U-FZ1A	5.02	0.31	CSIR	F	1337	392	5.79	1.70	2250	659	8.82	2.58	1084	318	5.11	1.50	1986	582	7.98	2.34	220-240	9.40	20.72
AE4430U-FZ1A	6.12	0.38	CSIR	F	1603	470	5.93	1.74	2700	791	8.57	2.51	1302	381	5.24	1.54	2370	694	8.19	2.40	220-240	9.60	21.16
AE4440U-FZ1A	8.02	0.49	CSIR	F	2123	622	6.04	1.77	3600	1055	8.85	2.59	1733	508	5.38	1.58	3052	894	8.03	2.35	220-240	9.50	20.94
AE4440U-GH1A	8.02	0.49	CSIR	F	-	-	-	-	3600	1055	8.85	2.59	1868	547	6.18	1.81	3134	918	8.50	2.49	220	10.60	23.37
AE4450U-FZ1A	10.33	0.63	CSIR	F	2875	842	6.20	1.82	4750	1392	8.48	2.48	2346	687	5.54	1.62	4101	1202	8.15	2.39	220-240	10.50	23.15
AE4460U-FZ1C	12.01	0.74	CSIR	F	3115	913	5.76	1.69	5600	1641	8.83	2.59	2516	737	5.11	1.50	4634	1358	7.97	2.34	220-240	11.10	24.47



R-290

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								ARI								ENI2900				Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4482U-FZ3B	15.63	0.96	CSR	F	3930	1151	7.70	2.26	6904	2023	10.55	3.09	3203	938	6.50	1.90	6487	1901	9.87	2.89	5908	1731	9.90	2.90	220-240	35.00	77.16
AK4482U-XA3B	15.63	0.96	CSR	F	4203	1231	6.54	1.92	8238	2414	9.80	2.87	3991	1169	6.20	1.82	7834	2295	9.34	2.74	-	-	-	-	100	35.00	77.16
AK4482U-XD3B	15.63	0.96	CSR	F	4632	1357	7.00	2.05	8410	2464	10.45	3.06	4213	1234	6.50	1.90	7995	2343	9.90	2.90	-	-	-	-	200	35.00	77.16
AK4492U-XA3B	17.45	1.07	CSR	F	5050	1480	6.46	1.89	9167	2686	9.60	2.81	4490	1316	6.30	1.85	8591	2517	9.17	2.69	-	-	-	-	100	35.00	77.16
AK4492U-XN3B	17.45	1.07	CSR	F	4939	1447	7.00	2.05	9362	2743	10.42	3.05	4663	1366	6.66	1.95	8883	2603	9.88	2.89	-	-	-	-	200-220	35.00	77.16
AK4511U-XA3B	20.43	1.25	CSR	F	6406	1877	6.40	1.88	11028	3231	9.05	2.65	5791	1697	6.10	1.79	10558	3093	8.70	2.55	-	-	-	-	100	35.00	77.16



R-290

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE								ENI2900								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
HG4467U-FZ3A	9.52	0.58	CSR / PSC	F	2800	820	7.04	2.06	4634	1358	10.60	3.11	4000	1172	10.10	2.96	4000	1172	10.10	2.96	220-240	11.00	24.25
HG4492U-FZ3A	12.74	0.78	CSR / PSC	F	3932	1152	7.17	2.10	6317	1851	10.60	3.11	5450	1597	10.09	2.96	5450	1597	10.09	2.96	220-240	11.40	25.13
HG4512U-FZ3A	16.11	0.99	CSR / PSC	F	5048	1479	7.23	2.12	7964	2333	10.50	3.08	6850	2007	9.91	2.90	6850	2007	9.91	2.90	220-240	11.90	26.23



COMMERCIAL

LBP



R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				ARI				ENI2900				Voltage (V)	Weight	
					-23.3°C (-10°F)				-23.3°C (-10°F)				-35°C (-31°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AWS2450ZXC	43.26	2.66	CSR	F	4800	1407	4.60	1.35	-	-	-	-	-	-	-	-	220 1-	30.00	66.14
AWS2460ZXC	55.38	3.40	CSR	F	5750	1685	4.60	1.35	-	-	-	-	-	-	-	-	220 1-	30.00	66.14
AWS2470ZGE	43.26	2.66	CSR	F	5800	1700	4.46	1.31	4350	1275	3.35	0.98	3016	884	3.31	0.97	230 1-	28.00	61.73
AWS2495ZKZ	54.30	3.33	TRI	F	8175	2396	5.11	1.50	-	-	-	-	-	-	-	-	220 3-	29.00	63.93
AWS2495ZXN	54.30	3.33	CSR	F	8300	2433	4.96	1.45	-	-	-	-	-	-	-	-	220 1-	30.00	66.14
AWS2495ZXG	54.30	3.33	TRI	F	8350	2447	5.15	1.51	-	-	-	-	-	-	-	-	380 3-	29.00	63.93
AWS2495ZGE	54.30	3.33	CSR	F	8400	2462	4.94	1.45	6300	1846	3.71	1.09	4370	1281	3.67	1.08	230 1-	28.00	61.73
AWS2510ZXG	63.00	3.87	TRI	F	10000	2931	5.13	1.50	6732	1973	3.80	1.11	5200	1524	4.08	1.20	380 3-	30.00	66.14
AWS2510ZXN	63.00	3.87	CSR	F	10000	2928	5.00	1.46	7200	2108	3.67	1.08	4900	1435	3.60	1.06	220 1-	30.00	66.14
AWS2510ZXC	63.00	3.87	CSR	F	10200	2987	5.13	1.50	7344	2150	3.85	1.13	5304	1553	3.94	1.15	220 1-	30.00	66.14
AWS2512ZTZ	68.03	4.18	TRI	F	11500	3367	5.07	1.48	8510	2492	3.82	1.12	5704	1670	3.87	1.13	400 3-	30.00	66.14
AWS2512ZKZ	68.00	4.17	TRI	F	11500	3367	5.00	1.46	8740	2559	3.84	1.12	5865	1717	3.92	1.15	220 3-	29.00	63.93
AWS2512ZXN	68.03	4.18	CSR	F	11500	3367	5.00	1.46	8510	2492	3.78	1.11	5808	1701	3.68	1.08	220 1-	30.00	66.14
AWS2512ZXC	68.00	4.17	CSR	F	12000	3514	5.15	1.51	8640	2530	3.86	1.13	6240	1827	3.96	1.16	220 1-	31.00	68.34





R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				ENI2900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2522Z	134.80	8.28	TRI	F	17244	5052	4.71	1.38	8281	2426	3.40	1.00	220V 3~	47.00	103.62





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				ENI2900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2428Z-FZ	15.2	0.93	CSIR	F	2052	601	3.93	1.15	1045	306	2.84	0.83	220 - 240 1~	19.40	42.77
CAJ2428Z-GZ	15.2	0.93	CSIR	F	2052	601	3.82	1.12	1045	306	2.82	0.83	208 - 220 1~	19.40	42.77
CAJ2428Z-XA	15.2	0.93	CSIR	F	2059	603	4.08	1.20	1045	306	3.01	0.88	100 1~ / 115 1~	19.50	42.99
TAJ2428Z-TZ	15.2	0.93	TRI	F	2069	606	4.20	1.23	1053	309	3.10	0.91	400 3~ / 440 3~	19.30	42.55
TAJ2432Z-TZ	18.3	1.12	TRI	F	2555	749	4.50	1.32	1270	372	3.36	0.98	400 3~ / 440 3~	18.80	41.45
CAJ2432Z-GZ	18.3	1.12	CSR	F	2592	759	4.24	1.24	1298	380	3.06	0.90	208 - 220 1~	20.00	44.09
CAJ2432Z-XA	18.3	1.12	CSR	F	2592	759	4.20	1.23	1298	380	3.08	0.90	100 1~ / 115 1~	20.30	44.75
CAJ2432Z-FZ	18.3	1.12	CSR	F	2641	774	4.63	1.36	1332	390	3.36	0.98	220 - 240 1~	20.10	44.31
CAJ2440Z-FZ	21	1.29	CSR	F	3221	944	4.59	1.34	1611	472	3.29	0.96	220 - 240 1~	21.50	47.40
TAJ2446Z-TZ	26.2	1.61	TRI	F	3921	1149	4.48	1.31	2035	596	3.50	1.03	400 3~ / 440 3~	21.90	48.28
CAJ2446Z-GZ	26.2	1.61	CSR	F	4028	1180	4.50	1.32	2100	615	3.42	1.00	208 - 220 1~	21.40	47.18
CAJ2446Z-FZ	26.2	1.61	CSR	F	4092	1199	4.65	1.36	2137	626	3.54	1.04	220 - 240 1~	21.30	46.96
CAJ2446Z-XA	26.2	1.61	CSR	F	4102	1202	4.44	1.30	2129	624	3.48	1.02	100 1~ / 115 1~	21.90	48.28
TAJ2446Z-KZ	26.2	1.61	TRI	F	4162	1219	4.73	1.39	2163	634	3.65	1.07	220 3~ / 220 3~	20.80	45.86
CAJ2464Z-GZ	34.5	2.12	CSR	F	5312	1556	4.43	1.30	2750	806	3.31	0.97	208 - 220 1~	22.20	48.94
CAJ2464Z-XA	34.5	2.12	CSR	F	5312	1556	4.32	1.27	2750	806	3.41	1.00	100 1~ / 115 1~	22.30	49.16
TAJ2464Z-TZ	34.5	2.12	TRI	F	5316	1558	4.54	1.33	2795	819	3.59	1.05	400 3~ / 440 3~	21.20	46.74
TAJ2464Z-KZ	34.5	2.12	TRI	F	5367	1573	4.57	1.34	2849	835	3.60	1.05	220 3~ / 220 3~	21.60	47.62
CAJ2464Z-FZ	34.5	2.12	CSR	F	5374	1575	4.42	1.30	2825	828	3.34	0.98	220 - 240 1~	22.20	48.94





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F)				ENI2900 (R-448A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2428Z-FZ	15.2	0.93	CSIR	F	1831	536	3.68	1.08	881	258	2.61	0.76	220 - 240 1~	19.40	42.77
CAJ2428Z-GZ	15.2	0.93	CSIR	F	1831	536	3.57	1.05	881	258	2.58	0.76	208 - 220 1~	19.40	42.77
CAJ2428Z-XA	15.2	0.93	CSIR	F	1846	541	3.82	1.12	877	257	2.75	0.81	100 1~ / 115 1~	19.50	42.99
TAJ2428Z-TZ	15.2	0.93	TRI	F	1854	543	3.96	1.16	884	259	2.82	0.83	400 3~ / 440 3~	19.30	42.55
TAJ2432Z-TZ	18.3	1.12	TRI	F	2280	668	4.20	1.23	1077	316	3.07	0.90	400 3~ / 440 3~	18.80	41.45
CAJ2432Z-GZ	18.3	1.12	CSR	F	2312	677	3.96	1.16	1100	322	2.82	0.83	208 - 220 1~	20.00	44.09
CAJ2432Z-XA	18.3	1.12	CSR	F	2312	677	3.91	1.15	1100	322	2.83	0.83	100 1~ / 115 1~	20.30	44.75
CAJ2432Z-FZ	18.3	1.12	CSR	F	2353	689	4.33	1.27	1127	330	3.08	0.90	220 - 240 1~	20.10	44.31
CAJ2440Z-FZ	21	1.29	CSR	F	2881	844	4.30	1.26	1360	398	3.03	0.89	220 - 240 1~	21.50	47.40
TAJ2446Z-TZ	26.2	1.61	TRI	F	3481	1020	4.16	1.22	1710	501	3.17	0.93	400 3~ / 440 3~	21.90	48.28
CAJ2446Z-GZ	26.2	1.61	CSR	F	3575	1047	4.20	1.23	1763	517	3.11	0.91	208 - 220 1~	21.40	47.18
CAJ2446Z-FZ	26.2	1.61	CSR	F	3620	1061	4.32	1.27	1797	527	3.23	0.95	220 - 240 1~	21.30	46.96
CAJ2446Z-XA	26.2	1.61	CSR	F	3637	1066	4.11	1.20	1790	524	3.16	0.93	100 1~ / 115 1~	21.90	48.28
TAJ2446Z-KZ	26.2	1.61	TRI	F	3688	1081	4.40	1.29	1818	533	3.31	0.97	220 3~ / 220 3~	20.80	45.86
TAJ2464Z-TZ	34.5	2.12	TRI	F	4704	1378	4.20	1.23	2345	687	3.25	0.95	400 3~ / 440 3~	21.20	46.74
CAJ2464Z-GZ	34.5	2.12	CSR	F	4711	1380	4.09	1.20	2314	678	3.06	0.90	208 - 220 1~	22.20	48.94
CAJ2464Z-XA	34.5	2.12	CSR	F	4711	1380	4.00	1.17	2314	678	3.09	0.91	100 1~ / 115 1~	22.30	49.16
TAJ2464Z-KZ	34.5	2.12	TRI	F	4743	1390	4.23	1.24	2386	699	3.26	0.96	220 3~ / 220 3~	21.60	47.62
CAJ2464Z-FZ	34.5	2.12	CSR	F	4761	1395	4.12	1.21	2369	694	3.04	0.89	220 - 240 1~	22.20	48.94

COMPRESSORS - 50Hz



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F)				ENI2900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2428Z-FZ	15.2	0.93	CSIR	F	1831	536	3.68	1.08	878	257	2.60	0.76	220 - 240 1~	19.40	42.77
CAJ2428Z-GZ	15.2	0.93	CSIR	F	1831	536	3.57	1.05	878	257	2.58	0.76	208 - 220 1~	19.40	42.77
CAJ2428Z-XA	15.2	0.93	CSIR	F	1846	541	3.82	1.12	874	256	2.75	0.81	100 1~ / 115 1~	19.50	42.99
TAJ2428Z-TZ	15.2	0.93	TRI	F	1854	543	3.96	1.16	881	258	2.81	0.82	400 3~ / 440 3~	19.30	42.55
TAJ2432Z-TZ	18.3	1.12	TRI	F	2280	668	4.20	1.23	1073	314	3.06	0.90	400 3~ / 440 3~	18.80	41.45
CAJ2432Z-GZ	18.3	1.12	CSR	F	2312	677	3.97	1.16	1096	321	2.81	0.82	208 - 220 1~	20.00	44.09
CAJ2432Z-XA	18.3	1.12	CSR	F	2312	677	3.92	1.15	1096	321	2.83	0.83	100 1~ / 115 1~	20.30	44.75
CAJ2432Z-FZ	18.3	1.12	CSR	F	2353	689	4.34	1.27	1123	329	3.08	0.90	220 - 240 1~	20.10	44.31
CAJ2440Z-FZ	21	1.29	CSR	F	2882	844	4.31	1.26	1356	397	3.02	0.88	220 - 240 1~	21.50	47.40
TAJ2446Z-TZ	26.2	1.61	TRI	F	3482	1020	4.17	1.22	1704	499	3.16	0.93	400 3~ / 440 3~	21.90	48.28
CAJ2446Z-GZ	26.2	1.61	CSR	F	3576	1048	4.20	1.23	1757	515	3.10	0.91	208 - 220 1~	21.40	47.18
CAJ2446Z-FZ	26.2	1.61	CSR	F	3622	1061	4.32	1.27	1792	525	3.22	0.94	220 - 240 1~	21.30	46.96
CAJ2446Z-XA	26.2	1.61	CSR	F	3639	1066	4.11	1.20	1785	523	3.15	0.92	100 1~ / 115 1~	21.90	48.28
TAJ2446Z-KZ	26.2	1.61	TRI	F	3691	1081	4.41	1.29	1812	531	3.30	0.97	220 3~ / 220 3~	20.80	45.86
TAJ2464Z-TZ	34.5	2.12	TRI	F	4707	1379	4.21	1.23	2338	685	3.24	0.95	400 3~ / 440 3~	21.20	46.74
CAJ2464Z-GZ	34.5	2.12	CSR	F	4714	1381	4.10	1.20	2307	676	3.05	0.89	208 - 220 1~	22.20	48.94
CAJ2464Z-XA	34.5	2.12	CSR	F	4714	1381	4.00	1.17	2307	676	3.09	0.91	100 1~ / 115 1~	22.30	49.16
TAJ2464Z-KZ	34.5	2.12	TRI	F	4746	1391	4.24	1.24	2379	697	3.25	0.95	220 3~ / 220 3~	21.60	47.62
CAJ2464Z-FZ	34.5	2.12	CSR	F	4764	1396	4.13	1.21	2361	692	3.04	0.89	220 - 240 1~	22.20	48.94





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Venti-lation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-452A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2428Z-FZ	15.2	0.93	CSIR	F	1945	570	3.86	1.13	978	287	2.81	0.82	220 - 240 1~	19.40	42.77
CAJ2428Z-GZ	15.2	0.93	CSIR	F	1945	570	3.74	1.10	978	287	2.78	0.81	208 - 220 1~	19.40	42.77
CAJ2428Z-XA	15.2	0.93	CSIR	F	1958	574	4.01	1.17	975	286	2.97	0.87	100 1~ / 115 1~	19.50	42.99
TAJ2428Z-TZ	15.2	0.93	TRI	F	1967	576	4.14	1.21	982	288	3.05	0.89	400 3~ / 440 3~	19.30	42.55
TAJ2432Z-TZ	18.3	1.12	TRI	F	2423	710	4.41	1.29	1193	350	3.31	0.97	400 3~ / 440 3~	18.80	41.45
CAJ2432Z-FZ	18.3	1.12	CSR	F	2456	720	4.31	1.26	1219	357	3.09	0.91	220 - 240 1~	20.10	44.31
CAJ2432Z-GZ	18.3	1.12	CSR	F	2456	720	4.15	1.22	1219	357	3.03	0.89	208 - 220 1~	20.00	44.09
CAJ2432Z-XA	18.3	1.12	CSR	F	2456	720	4.11	1.20	1219	357	3.05	0.89	100 1~ / 115 1~	20.30	44.75
CAJ2440Z-FZ	21	1.29	CSR	F	3064	898	4.52	1.32	1515	444	3.27	0.96	220 - 240 1~	21.50	47.40
TAJ2446Z-TZ	26.2	1.61	TRI	F	3710	1087	4.37	1.28	1905	558	3.44	1.01	400 3~ / 440 3~	21.90	48.28
CAJ2446Z-GZ	26.2	1.61	CSR	F	3811	1117	4.41	1.29	1966	576	3.36	0.98	208 - 220 1~	21.40	47.18
CAJ2446Z-FZ	26.2	1.61	CSR	F	3864	1132	4.54	1.33	2002	587	3.49	1.02	220 - 240 1~	21.30	46.96
CAJ2446Z-XA	26.2	1.61	CSR	F	3879	1137	4.32	1.27	1995	585	3.42	1.00	100 1~ / 115 1~	21.90	48.28
TAJ2446Z-KZ	26.2	1.61	TRI	F	3936	1153	4.62	1.35	2027	594	3.58	1.05	220 3~ / 220 3~	20.80	45.86
TAJ2464Z-TZ	34.5	2.12	TRI	F	5021	1471	4.42	1.30	2617	767	3.53	1.03	400 3~ / 440 3~	21.20	46.74
CAJ2464Z-GZ	34.5	2.12	CSR	F	5025	1472	4.31	1.26	2580	756	3.30	0.97	208 - 220 1~	22.20	48.94
CAJ2464Z-XA	34.5	2.12	CSR	F	5025	1472	4.21	1.23	2580	756	3.35	0.98	100 1~ / 115 1~	22.30	49.16
TAJ2464Z-KZ	34.5	2.12	TRI	F	5066	1484	4.46	1.31	2666	781	3.54	1.04	220 3~ / 220 3~	21.60	47.62
CAJ2464Z-FZ	34.5	2.12	CSR	F	5080	1488	4.33	1.27	2645	775	3.29	0.96	220 - 240 1~	22.20	48.94





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-404A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH248OZ-KZ	54.30	3.33	TRI	F	8305	2433	5.16	1.51	4012	1176	3.84	1.13	220 3~	29.00	63.93
FH248OZ-XG	54.30	3.33	TRI	F	8398	2461	5.34	1.56	4057	1189	3.98	1.17	380-420 3~	30.00	66.14
FH248OZ-XN	54.30	3.33	CSR	F	8677	2542	4.94	1.45	4192	1228	3.68	1.08	200-220 1~	31.00	68.34
FH248OZ-XC	54.30	3.33	CSR	F	9039	2648	4.93	1.44	4367	1280	3.67	1.08	220 - 240 1~	29.00	63.93
FH2511Z-XG	68.00	4.17	TRI	F	11790	3454	5.19	1.52	5696	1669	3.86	1.13	380-420 3~	31.00	68.34
FH2511Z-KZ	68.00	4.17	TRI	F	12132	3555	5.26	1.54	5861	1717	3.92	1.15	220 3~	30.00	66.14
FH2511Z-XN	68.03	4.18	CSR	F	12411	3636	5.03	1.47	5996	1757	3.75	1.10	200-220 1~	30.00	66.14
FH2511Z-XC	68.00	4.17	CSR	F	12928	3788	5.32	1.56	6246	1830	3.97	1.16	220 - 240 1~	34.00	74.96



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-448A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH248OZ-KZ	54.30	3.33	TRI	F	7272	2131	4.89	1.43	3413	1000	3.65	1.07	220 3~	29.00	63.93
FH248OZ-XG	54.30	3.33	TRI	F	7354	2155	5.07	1.49	3451	1011	3.78	1.11	380-420 3~	30.00	66.14
FH248OZ-XN	54.30	3.33	CSR	F	7598	2226	4.68	1.37	3566	1045	3.49	1.02	200-220 1~	31.00	68.34
FH248OZ-XC	54.30	3.33	CSR	F	7915	2319	4.67	1.37	3715	1088	3.48	1.02	220 - 240 1~	29.00	63.93
FH2511Z-XG	68.00	4.17	TRI	F	10325	3025	4.92	1.44	4845	1420	3.67	1.08	380-420 3~	31.00	68.34
FH2511Z-KZ	68.00	4.17	TRI	F	10623	3113	4.99	1.46	4986	1461	3.72	1.09	220 3~	30.00	66.14
FH2511Z-XN	68.03	4.18	CSR	F	10868	3184	4.77	1.40	5100	1494	3.56	1.04	200-220 1~	30.00	66.14
FH2511Z-XC	68.00	4.17	CSR	F	11321	3317	5.05	1.48	5313	1557	3.77	1.10	220 - 240 1~	34.00	74.96



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F)				ENI2900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480Z-KZ	54.30	3.33	TRI	F	7271	2130	4.90	1.44	3400	996	3.64	1.07	220 3~	29.00	63.93
FH2480Z-XG	54.30	3.33	TRI	F	7353	2154	5.07	1.49	3438	1007	3.77	1.10	380-420 3~	30.00	66.14
FH2480Z-XN	54.30	3.33	CSR	F	7597	2226	4.69	1.37	3553	1041	3.48	1.02	200-220 1~	31.00	68.34
FH2480Z-XC	54.30	3.33	CSR	F	7914	2319	4.68	1.37	3701	1084	3.48	1.02	220 - 240 1~	29.00	63.93
FH2511Z-XG	68.00	4.17	TRI	F	10323	3025	4.93	1.44	4827	1414	3.66	1.07	380-420 3~	31.00	68.34
FH2511Z-KZ	68.00	4.17	TRI	F	10622	3112	5.00	1.47	4967	1455	3.72	1.09	220 3~	30.00	66.14
FH2511Z-XN	68.03	4.18	CSR	F	10866	3184	4.78	1.40	5081	1489	3.55	1.04	200-220 1~	30.00	66.14
FH2511Z-XC	68.00	4.17	CSR	F	11319	3316	5.06	1.48	5293	1551	3.76	1.10	220 - 240 1~	34.00	74.96



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F)				ENI2900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480Z-KZ	54.30	3.33	TRI	F	7790	2282	5.06	1.48	3663	1073	3.73	1.09	220 3~	29.00	63.93
FH2480Z-XG	54.30	3.33	TRI	F	7877	2308	5.24	1.54	3704	1085	3.87	1.13	380-420 3~	30.00	66.14
FH2480Z-XN	54.30	3.33	CSR	F	8139	2385	4.84	1.42	3827	1121	3.57	1.05	200-220 1~	31.00	68.34
FH2480Z-XC	54.30	3.33	CSR	F	8478	2484	4.83	1.42	3987	1168	3.57	1.05	220 - 240 1~	29.00	63.93
FH2511Z-XG	68.00	4.17	TRI	F	11059	3240	5.08	1.49	5200	1524	3.75	1.10	380-420 3~	31.00	68.34
FH2511Z-KZ	68.00	4.17	TRI	F	11379	3334	5.16	1.51	5351	1568	3.81	1.12	220 3~	30.00	66.14
FH2511Z-XN	68.03	4.18	CSR	F	11641	3411	4.93	1.44	5474	1604	3.64	1.07	200-220 1~	30.00	66.14
FH2511Z-XC	68.00	4.17	CSR	F	12126	3553	5.22	1.53	5702	1671	3.85	1.13	220 - 240 1~	34.00	74.96



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				ENI2900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513Z	100.70	6.18	TRI	F	11015	3227	4.42	1.30	5230	1532	3.21	0.94	400V 3~	44.00	97.00
TAG2513Z	100.70	6.18	TRI	F	11374	3333	4.64	1.36	5434	1592	3.37	0.99	220V 3~	44.00	97.00
TAG2516Z	112.50	6.91	TRI	F	13501	3956	4.68	1.37	6538	1916	3.49	1.02	400V 3~	43.00	94.80
TAG2516Z	112.50	6.91	TRI	F	14131	4140	5.05	1.48	6759	1980	3.66	1.07	220V 3~	46.00	101.41
TAG2519Z	124.40	7.64	TRI	F	15658	4588	4.89	1.43	7709	2259	3.66	1.07	220V 3~	46.20	101.85
TAG2519Z	124.40	7.64	TRI	F	16147	4731	5.37	1.57	7976	2337	4.05	1.19	400V 3~	46.20	101.85
TAG2522Z	134.80	8.28	TRI	F	18227	5341	5.03	1.47	9157	2683	3.83	1.12	400V 3~	47.00	103.62
TAG2525Z	145.00	8.90	TRI	F	19618	5748	5.00	1.47	10076	2952	3.83	1.12	220V 3~	47.00	103.62
TAG2525Z	145.00	8.90	TRI	F	20407	5979	5.01	1.47	10270	3009	3.86	1.13	400V 3~	46.00	101.41



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F)				ENI2900 (R-448A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513Z	100.70	6.18	TRI	F	9942	2913	4.15	1.22	4464	1308	2.94	0.86	400V 3~	44.00	97.00
TAG2513Z	100.70	6.18	TRI	F	10242	3001	4.36	1.28	4634	1358	3.08	0.90	220V 3~	44.00	97.00
TAG2516Z	112.50	6.91	TRI	F	12087	3541	4.37	1.28	5577	1634	3.18	0.93	400V 3~	43.00	94.80
TAG2516Z	112.50	6.91	TRI	F	12705	3723	4.73	1.39	5762	1688	3.36	0.98	220V 3~	46.00	101.41
TAG2519Z	124.40	7.64	TRI	F	13958	4090	4.66	1.37	6369	1866	3.36	0.98	220V 3~	46.20	101.85
TAG2519Z	124.40	7.64	TRI	F	14442	4232	5.01	1.47	6765	1982	3.68	1.08	400V 3~	46.20	101.85
TAG2522Z	134.80	8.28	TRI	F	16293	4774	4.69	1.37	7736	2267	3.48	1.02	400V 3~	47.00	103.62
TAG2525Z	145.00	8.90	TRI	F	17414	5102	4.64	1.36	8496	2489	3.48	1.02	220V 3~	47.00	103.62
TAG2525Z	145.00	8.90	TRI	F	18177	5326	4.66	1.37	8681	2544	3.50	1.03	400V 3~	46.00	101.41



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	STANDARD TE (R-449A) -23.3°C (-10°F)				ENI2900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513Z	100.70	6.18	TRI	F	9936	2911	4.15	1.22	4444	1302	2.93	0.86	400V 3~	44.00	97.00
TAG2513Z	100.70	6.18	TRI	F	10238	3000	4.37	1.28	4614	1352	3.08	0.90	220V 3~	44.00	97.00
TAG2516Z	112.50	6.91	TRI	F	12085	3541	4.37	1.28	5553	1627	3.18	0.93	400V 3~	43.00	94.80
TAG2516Z	112.50	6.91	TRI	F	12703	3722	4.73	1.39	5737	1681	3.35	0.98	220V 3~	46.00	101.41
TAG2519Z	124.40	7.64	TRI	F	13956	4089	4.66	1.37	6343	1858	3.35	0.98	220V 3~	46.20	101.85
TAG2519Z	124.40	7.64	TRI	F	14442	4232	5.02	1.47	6739	1975	3.67	1.08	400V 3~	46.20	101.85
TAG2522Z	134.80	8.28	TRI	F	16296	4775	4.70	1.38	7707	2258	3.47	1.02	400V 3~	47.00	103.62
TAG2525Z	145.00	8.90	TRI	F	17418	5103	4.65	1.36	8466	2481	3.47	1.02	220V 3~	47.00	103.62
TAG2525Z	145.00	8.90	TRI	F	18183	5328	4.66	1.37	8649	2534	3.49	1.02	400V 3~	46.00	101.41



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	STANDARD TE (R-452A) -23.3°C (-10°F)				ENI2900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513Z	100.70	6.18	TRI	F	10395	3046	4.30	1.26	4880	1430	3.14	0.92	400V 3~	44.00	97.00
TAG2513Z	100.70	6.18	TRI	F	10730	3144	4.52	1.32	5076	1487	3.30	0.97	220V 3~	44.00	97.00
TAG2516Z	112.50	6.91	TRI	F	12685	3717	4.59	1.34	6100	1787	3.48	1.02	400V 3~	43.00	94.80
TAG2516Z	112.50	6.91	TRI	F	12956	3796	4.90	1.44	6039	1769	3.57	1.05	220V 3~	46.00	101.41
TAG2519Z	124.40	7.64	TRI	F	14639	4289	4.83	1.42	6991	2048	3.60	1.05	220V 3~	46.20	101.85
TAG2519Z	124.40	7.64	TRI	F	15183	4449	5.21	1.53	7453	2184	3.96	1.16	400V 3~	46.20	101.85
TAG2522Z	134.80	8.28	TRI	F	17141	5022	4.88	1.43	8548	2505	3.75	1.10	400V 3~	47.00	103.62
TAG2525Z	145.00	8.90	TRI	F	18373	5383	4.84	1.42	9401	2754	3.75	1.10	220V 3~	47.00	103.62
TAG2525Z	145.00	8.90	TRI	F	19164	5615	4.85	1.42	9593	2811	3.77	1.10	400V 3~	46.00	101.41



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	ASHRAE (R-404A) -23.3°C (-10°F)				ENI2900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513X	100.70	6.18	TRI	F	11015	3227	4.42	1.30	5230	1532	3.21	0.94	400V 3~	44.00	97.00
TAG2516X	112.50	6.91	TRI	F	13904	4074	5.24	1.54	6733	1973	3.91	1.15	400V 3~	45.00	99.21
TAG2519X	124.40	7.64	TRI	F	16147	4731	5.37	1.57	7976	2337	4.05	1.19	400V 3~	46.40	102.29
TAG2522X	134.80	8.28	TRI	F	18426	5399	5.47	1.60	9235	2706	4.15	1.22	400V 3~	47.00	103.62
TAG2525X	145.00	8.90	TRI	F	20407	5979	5.30	1.55	10270	3009	4.09	1.20	400V 3~	47.00	103.62



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	STANDARD TE (R-448A) -23.3°C (-10°F)				ENI2900 (R-448A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513X	100.70	6.18	TRI	F	9943	2913	4.28	1.25	4463	1308	3.03	0.89	400V 3~	44.00	97.00
TAG2516X	112.50	6.91	TRI	F	12449	3648	4.89	1.43	5743	1683	3.57	1.05	400V 3~	45.00	99.21
TAG2519X	124.40	7.64	TRI	F	14442	4232	5.01	1.47	6765	1982	3.68	1.08	400V 3~	46.40	102.29
TAG2522X	134.80	8.28	TRI	F	16463	4824	5.10	1.49	7803	2286	3.77	1.10	400V 3~	47.00	103.62
TAG2525X	145.00	8.90	TRI	F	18177	5326	4.93	1.44	8681	2544	3.70	1.08	400V 3~	47.00	103.62





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

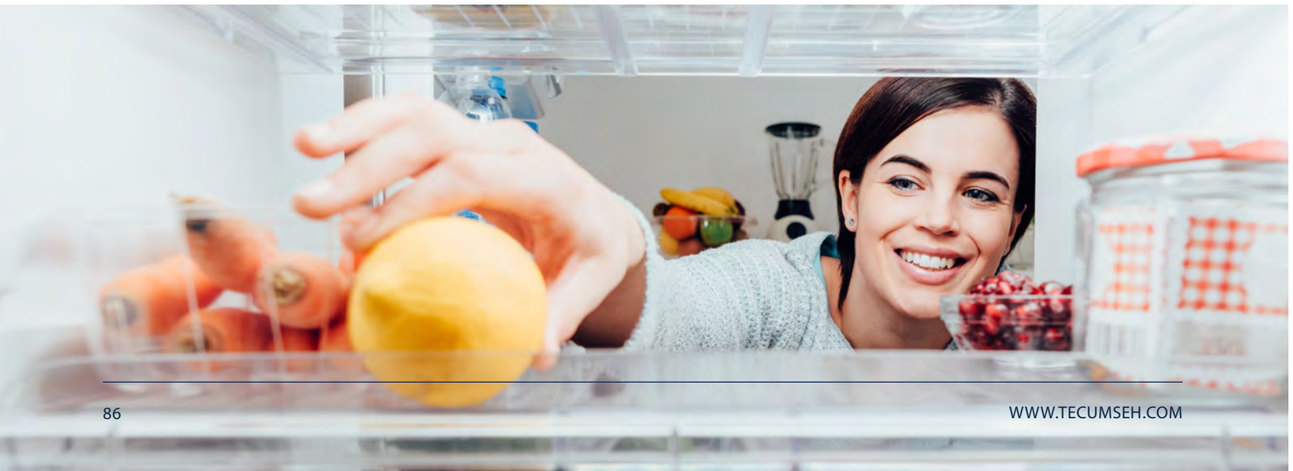
Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F)				ENI2900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513X	100.70	6.18	TRI	F	9937	2912	4.28	1.25	4443	1302	3.02	0.88	400V 3~	44.00	97.00
TAG2516X	112.50	6.91	TRI	F	12447	3647	4.90	1.44	5719	1676	3.56	1.04	400V 3~	45.00	99.21
TAG2519X	124.40	7.64	TRI	F	14442	4232	5.02	1.47	6739	1975	3.67	1.08	400V 3~	46.40	102.29
TAG2522X	134.80	8.28	TRI	F	16466	4825	5.11	1.50	7774	2278	3.77	1.10	400V 3~	47.00	103.62
TAG2525X	145.00	8.90	TRI	F	18183	5328	4.94	1.45	8649	2534	3.69	1.08	400V 3~	47.00	103.62



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F)				ENI2900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513X	100.70	6.18	TRI	F	10396	3046	4.44	1.30	4879	1430	3.24	0.95	400V 3~	44.00	97.00
TAG2516X	112.50	6.91	TRI	F	13074	3831	5.08	1.49	6301	1846	3.83	1.12	400V 3~	45.00	99.21
TAG2519X	124.40	7.64	TRI	F	15183	4449	5.21	1.53	7453	2184	3.96	1.16	400V 3~	46.40	102.29
TAG2522X	134.80	8.28	TRI	F	17325	5076	5.31	1.56	8620	2526	4.06	1.19	400V 3~	47.00	103.62
TAG2525X	145.00	8.90	TRI	F	19164	5615	5.13	1.50	9593	2811	3.99	1.17	400V 3~	47.00	103.62





R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C) -23.3°C (-10°F)				ENI2900 (R-454C) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ2432P-FZ	18.30	1.12	CSR	F	2155	631	4.53	1.33	1094	321	3.25	0.95	220 - 240 1~	19.80	43.65
AJ2440P-FZ	21.00	1.29	CSR	F	2721	797	4.67	1.37	1403	411	3.47	1.02	220 - 240 1~	21.00	46.30
AJ2446P-FZ	26.20	1.61	CSR	F	3304	968	4.47	1.31	1617	474	3.28	0.96	220 - 240 1~	21.50	47.40
AJ2446P-TZ	26.20	1.61	TRI	F	3343	979	4.71	1.38	1597	468	3.51	1.03	400 3~	21.30	46.96
AJ2464P-FZ	34.50	2.12	CSR	F	4398	1289	4.43	1.30	2194	643	3.30	0.97	220 - 240 1~	21.20	46.74
AJ2464P-TZ	34.50	2.12	TRI	F	4415	1294	4.51	1.32	2238	656	3.52	1.03	400 3~	21.20	46.74
AJ2464P-KZ	34.50	2.12	TRI	F	4451	1304	4.54	1.33	2276	667	3.53	1.03	220 3~	21.60	47.62



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A) -23.3°C (-10°F)				ENI2900 (R-455A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ2432P-FZ	18.3	1.12	CSR	F	2365	693	4.56	1.34	1236	362	3.44	1.01	220 - 240 1~	19.80	43.65
AJ2440P-FZ	21	1.29	CSR	F	3022	885	4.64	1.36	1593	467	3.59	1.05	220 - 240 1~	21.00	46.30
AJ2446P-TZ	26.2	1.61	TRI	F	3559	1043	4.55	1.33	1824	534	3.59	1.05	400 3~ / 440 3~	21.30	46.96
AJ2446P-FZ	26.2	1.61	CSR	F	3652	1070	4.35	1.27	1856	544	3.37	0.99	220 - 240 1~	21.50	47.40
AJ2464P-TZ	34.5	2.12	TRI	F	4850	1421	4.40	1.29	2539	744	3.52	1.03	400 3~ / 440 3~	21.20	46.74
AJ2464P-KZ	34.5	2.12	TRI	F	4885	1431	4.43	1.30	2579	756	3.53	1.03	220 3~ / 220 3~	21.60	47.62
AJ2464P-FZ	34.5	2.12	CSR	F	4889	1432	4.50	1.32	2550	747	3.51	1.03	220 - 240 1~	21.20	46.74



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C) -23.3°C (-10°F)				ENI2900 (R-454C) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480P-XG	54.30	3.33	TRI	F	6434	1885	5.25	1.54	3095	907	4.01	1.17	380-420 3-	30.00	66.14
FH2480P-XC	54.30	3.33	CSR	F	6631	1943	5.27	1.54	3017	884	3.68	1.08	220 - 240 1-	29.00	63.93
FH2480P-KZ	54.30	3.33	TRI	F	6708	1965	5.08	1.49	3173	930	3.79	1.11	220V 3~	30.10	66.36
FH2511P-XC	68.00	4.17	CSR	F	9801	2872	5.32	1.56	4858	1423	3.99	1.17	220 - 240 1-	34.00	74.96
FH2511P-XG	68.00	4.17	TRI	F	9804	2873	5.53	1.62	4697	1376	4.16	1.22	380-420 3-	31.00	68.34
FH2511P-KZ	68.00	4.17	TRI	F	9978	2924	5.43	1.59	4799	1406	4.08	1.20	220V 3~	30.10	66.36



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A) -23.3°C (-10°F)				ENI2900 (R-455A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480P-XG	54.30	3.33	TRI	F	7393	2166	5.11	1.50	3766	1103	4.11	1.20	380-420 3-	30.00	66.14
FH2480P-XC	54.30	3.33	CSR	F	7644	2240	5.17	1.51	3710	1087	3.83	1.12	220 - 240 1-	29.00	63.93
FH2480P-KZ	54.30	3.33	TRI	F	7703	2257	4.97	1.46	3876	1136	3.90	1.14	220V 3~	30.10	66.36
FH2511P-XC	68.00	4.17	CSR	F	11199	3281	5.19	1.52	5882	1723	4.10	1.20	220 - 240 1-	34.00	74.96
FH2511P-XG	68.00	4.17	TRI	F	11236	3292	5.39	1.58	5713	1674	4.28	1.25	380-420 3-	31.00	68.34
FH2511P-KZ	68.00	4.17	TRI	F	11396	3339	5.29	1.55	5832	1709	4.20	1.23	220V 3~	30.10	66.36



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C) -23.3°C (-10°F)				ENI2900 (R-454C) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG2513P-TZ	100.70	6.18	TRI	F	8531	2500	4.63	1.36	3662	1073	3.10	0.91	400V 3~	44.00	97.00
AG2516P-TZ	112.50	6.91	TRI	F	10603	3107	4.83	1.42	4355	1276	3.15	0.92	400V 3~	46.00	101.41
AG2519P-TZ	124.40	7.64	TRI	F	13010	3812	4.83	1.42	5855	1716	3.50	1.03	400V 3~	46.00	101.41
AG2522P-TZ	135.00	8.29	TRI	F	15135	4435	5.14	1.51	7089	2077	3.84	1.13	400V 3~	48.00	105.82
AG2525P-TZ	145.00	8.90	TRI	F	16252	4762	5.27	1.54	7608	2229	3.91	1.15	400V 3~	48.00	105.82



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A) -23.3°C (-10°F)				ENI2900 (R-455A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG2513P-TZ	100.70	6.18	TRI	F	9765	2861	4.72	1.38	4232	1240	3.23	0.95	400V 3~	44.00	97.00
AG2516P-TZ	112.50	6.91	TRI	F	12125	3553	4.94	1.45	5066	1484	3.29	0.96	400V 3~	46.00	101.41
AG2519P-TZ	124.40	7.64	TRI	F	14728	4315	4.88	1.43	6720	1969	3.61	1.06	400V 3~	46.00	101.41
AG2522P-TZ	135.00	8.29	TRI	F	17050	4996	5.17	1.51	8078	2367	3.93	1.15	400V 3~	48.00	105.82
AG2525P-TZ	145.00	8.90	TRI	F	18628	5458	5.25	1.54	8628	2528	3.96	1.16	400V 3~	48.00	105.82





R-290

LBP - Low Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	STANDARD TE -23.3°C (-10°F)				EN12900 -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2446U-XA	26.20	1.61	CSR	F	3610	1058	4.88	1.43	1981	580	3.80	1.11	100V 1~	21.00	46.30
CAJ2446U-FZ	26.20	1.61	CSR	F	3626	1062	4.82	1.41	1999	586	3.81	1.12	220 - 240V 1~	21.00	46.30
CAJ2464U-XA	34.50	2.12	CSR	F	4978	1459	4.68	1.37	2716	796	3.79	1.11	100V 1~	21.00	46.30
CAJ2464U-FZ	34.50	2.12	CSR	F	5194	1522	4.95	1.45	2821	827	3.94	1.15	220 - 240V 1~	21.00	46.30



COMMERCIAL

M/HBP



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -6.7°C (+20°F)				ASHRAE +7.2°C (+45°F)				EN12900 -10°C (+14°C)				EN12900 +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ4452Y-FZ	15.20	0.93	CSIR	F	2256	661	5.19	1.52	4603	1349	8.06	2.36	2069	606	5.18	1.52	3975	1165	7.41	2.17	220 - 240 1~	18.70	41.23
CAJ4452Y-XA	15.20	0.93	CSIR	F	2417	708	5.59	1.64	4745	1390	8.39	2.46	2175	637	5.55	1.63	4088	1198	7.72	2.26	100 1~	20.00	44.09
CAJ4452Y-GZ	15.20	0.93	CSIR	F	2506	734	5.47	1.60	4940	1447	8.31	2.43	2220	650	5.45	1.60	4245	1244	7.63	2.24	208 - 220 1~	20.00	44.09
TAJ4452Y-TZ	15.20	0.93	TRI	F	2507	735	6.08	1.78	4941	1448	9.21	2.70	2222	651	6.06	1.78	4245	1244	8.46	2.48	400 3~	17.80	39.24
CAJ4461Y-GZ	18.30	1.12	CSIR	F	2631	771	5.45	1.60	5544	1624	8.16	2.39	2397	702	5.41	1.59	4747	1391	7.52	2.20	208 - 220 1~	18.60	41.01
CAJ4461Y-XA	18.30	1.12	CSIR	F	2927	858	5.60	1.64	5661	1659	8.09	2.37	2615	766	5.59	1.64	4840	1418	7.48	2.19	100 1~	18.80	41.45
CAJ4461Y-FZ	18.30	1.12	CSIR	F	2928	858	5.47	1.60	5664	1660	8.02	2.35	2580	756	5.46	1.60	4847	1420	7.43	2.18	220 - 240 1~	18.40	40.56
CAJ4461Y-WZ	18.30	1.12	CSIR	F	2871	841	5.40	1.58	5676	1663	8.11	2.38	2567	752	5.33	1.56	4847	1420	7.44	2.18	208-230 1~	18.30	40.34
CAJ4461Y-CZ	18.30	1.12	CSIR	F	2984	874	5.46	1.60	5709	1673	7.81	2.29	2699	791	5.52	1.62	4913	1440	7.24	2.12	208 1~	18.60	41.01
TAJ4461Y-TZ	18.30	1.12	TRI	F	3070	900	6.29	1.84	5931	1738	9.29	2.72	2704	792	6.25	1.83	5054	1481	8.53	2.50	400 3~	17.80	39.24
CAJ4476Y-WZ	21.80	1.34	CSIR	F	3154	924	5.52	1.62	6627	1942	8.47	2.48	2870	841	5.52	1.62	5674	1662	7.80	2.29	208-230 1~	19.40	42.77
CAJ4476Y-FZ	21.80	1.34	CSIR	F	3351	982	5.42	1.59	6739	1975	8.10	2.37	3026	887	5.44	1.59	5769	1690	7.49	2.19	220 - 240 1~	18.50	40.79
CAJ4476Y-XA	21.80	1.34	CSIR	F	3569	1046	5.70	1.67	7006	2053	8.26	2.42	3176	931	5.71	1.67	6020	1764	7.65	2.24	100 1~	20.00	44.09
CAJ4476Y-CZ	21.80	1.34	CSIR	F	3569	1046	5.75	1.68	7006	2053	8.23	2.41	3176	931	5.78	1.69	6020	1764	7.64	2.24	208 1~	18.60	41.01
TAJ4476Y-KZ	22.80	1.40	TRI	F	3451	1011	6.16	1.80	7030	2060	9.30	2.72	3030	888	6.16	1.80	5962	1747	8.56	2.51	220 3~	18.20	40.12
CAJ4492Y-XA	25.95	1.59	CSIR	F	4023	1179	5.70	1.67	8110	2376	8.30	2.43	3637	1066	5.79	1.70	6954	2038	7.74	2.27	100 1~	22.00	48.50
CAJ4492Y-CZ	25.95	1.59	CSIR	F	4020	1178	5.64	1.65	8124	2380	8.42	2.47	3629	1063	5.66	1.66	6930	2030	7.76	2.27	208 1~	19.40	42.77
CAJ4492Y-GZ	25.95	1.59	CSIR	F	4224	1238	5.62	1.65	8314	2436	8.22	2.41	3808	1116	5.67	1.66	7116	2085	7.62	2.23	208 - 220 1~	19.60	43.21
CAJ4492Y-FZ	25.95	1.59	CSIR	F	4265	1250	5.86	1.72	8412	2465	8.49	2.49	3801	1114	5.86	1.72	7187	2106	7.86	2.30	220 - 240 1~	20.30	44.75
TAJ4492Y-TZ	25.95	1.59	TRI	F	4437	1300	6.43	1.88	8713	2553	9.36	2.74	3928	1151	6.41	1.88	7417	2173	8.62	2.53	400 3~	19.00	41.89
CAJ4511Y-CZ	32.70	2.01	CSR	F	5621	1647	6.51	1.91	10677	3128	9.02	2.64	4980	1459	6.56	1.92	9137	2677	8.39	2.46	208 1~	23.00	50.71
TAJ4511Y-TZ	32.70	2.01	TRI	F	5691	1667	6.51	1.91	10739	3147	9.11	2.67	5026	1473	6.58	1.93	9204	2697	8.48	2.48	400 3~	19.00	41.89
CAJ4511Y-FZ	32.70	2.01	CSR	F	5767	1690	6.65	1.95	10806	3166	9.22	2.70	5100	1494	6.66	1.95	9253	2711	8.56	2.51	220 - 240 1~	21.50	47.40
CAJ4511Y-GZ	32.70	2.01	CSR	F	5875	1721	6.67	1.95	10905	3195	9.22	2.70	5203	1524	6.71	1.97	9341	2737	8.56	2.51	208 - 220 1~	21.30	46.96
TAJ4511Y-KZ	32.70	2.01	TRI	F	5937	1740	6.42	1.88	11101	3253	9.02	2.64	5223	1530	6.47	1.90	9476	2776	8.34	2.44	220 3~	20.00	44.09
CAJ4513Y-FZ	34.45	2.11	CSR	F	6221	1823	6.49	1.90	11524	3377	9.10	2.67	5425	1590	6.43	1.88	9815	2876	8.38	2.46	220 - 240 1~	22.10	48.72





R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				ARI				ENI2900				Voltage (V)	Weight	
					+7.2°C (+45°F)				+7.2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AWS4515YGE	39.60	2.43	PSC	F	12500	3660	10.40	3.05	-	-	-	-	-	-	-	-	230 1-	26.00	57.32
AWS4518YXG	48.50	2.98	TRI	F	15000	4396	10.34	3.03	14320	4197	9.81	2.87	13225	3876	9.80	2.87	380 3-	27.00	59.52
AWS4518YXC	48.50	2.98	CSR	F	15500	4543	10.44	3.06	15000	4396	10.07	2.95	13425	3935	9.66	2.83	220 1-	27.00	59.52
AWS4525YXG	63.00	3.87	TRI	F	20480	6002	10.42	3.05	19470	5706	9.83	2.88	17800	5217	9.73	2.85	380 3-	27.00	59.52
AWS4525YXC	63.00	3.87	CSR	F	21200	6213	10.39	3.05	20125	5898	9.91	2.91	18300	5363	9.71	2.85	220 1-	27.00	59.52



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								ENI2900						Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)				
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4528Y	90.20	5.54	TRI	F	10842	3177	6.53	1.91	24621	7214	10.10	2.96	9106	2668	6.31	1.85	20820	6100	9.34	2.74	400V 3-	44.00	97.00
TAG4534Y	100.70	6.18	TRI	F	13911	4076	6.66	1.95	29370	8605	10.20	2.99	12068	3536	6.55	1.92	25020	7331	9.35	2.74	220V 3-	44.00	97.00
TAG4534Y	100.70	6.18	TRI	F	13911	4076	7.00	2.05	29370	8605	10.10	2.96	12068	3536	6.99	2.05	25020	7331	9.41	2.76	400V 3-	44.00	97.00
TAG4537Y	112.50	6.91	TRI	F	15916	4663	6.75	1.98	33197	9727	10.30	3.02	13904	4074	6.68	1.96	28306	8294	9.45	2.77	220V 3-	44.00	97.00
TAG4537Y	112.50	6.91	TRI	F	15916	4663	7.12	2.09	33197	9727	10.30	3.02	13904	4074	7.13	2.09	28306	8294	9.53	2.79	400V 3-	44.00	97.00
TAG4543Y	124.40	7.64	TRI	F	16605	4865	6.56	1.92	35702	10461	10.00	2.93	14473	4241	6.52	1.91	30290	8875	9.20	2.70	220V 3-	44.00	97.00
TAG4543Y	124.40	7.64	TRI	F	16605	4865	6.92	2.03	35702	10461	10.00	2.93	14473	4241	6.96	2.04	30290	8875	9.28	2.72	400V 3-	44.00	97.00
TAG4547Y	134.80	8.28	TRI	F	18888	5534	6.69	1.96	38592	11307	9.35	2.74	16849	4937	6.60	1.93	32963	9658	8.52	2.50	400V 3-	44.00	97.00



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518Y-XG	48.50	2.98	TRI	F	6897	2021	6.43	1.88	14430	4228	9.82	2.88	6818	1998	7.30	2.14	13131	3847	9.75	2.86	380-420 3-	29.00	63.93
FH4518Y-XC	48.50	2.98	CSR	F	7088	2077	6.33	1.85	14868	4356	9.78	2.87	6999	2051	7.15	2.09	13524	3963	9.71	2.85	220 - 240 1-	30.00	66.14
FH4525Y-XG	63.00	3.87	TRI	F	9241	2708	6.39	1.87	19623	5750	9.86	2.89	9218	2701	7.27	2.13	17861	5233	9.79	2.87	380-420 3-	29.00	63.93
FH4525Y-XC	63.00	3.87	CSR	F	9492	2781	6.34	1.86	20198	5918	9.80	2.87	9492	2781	7.22	2.12	18375	5384	9.73	2.85	220 - 240 1-	30.00	66.14



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518Y-XG	48.50	2.98	TRI	F	7149	2095	6.33	1.85	14730	4316	9.58	2.81	7253	2125	7.31	2.14	13363	3915	9.47	2.77	380-420 3-	29.00	63.93
FH4518Y-XC	48.50	2.98	CSR	F	7347	2153	6.23	1.83	15177	4447	9.55	2.80	7445	2181	7.15	2.09	13763	4033	9.43	2.76	220 - 240 1-	30.00	66.14
FH4525Y-XG	63.00	3.87	TRI	F	9581	2807	6.30	1.85	20031	5869	9.62	2.82	9807	2873	7.27	2.13	18175	5325	9.51	2.79	380-420 3-	29.00	63.93
FH4525Y-XC	63.00	3.87	CSR	F	9842	2884	6.25	1.83	20616	6040	9.56	2.80	10099	2959	7.23	2.12	18698	5479	9.45	2.77	220 - 240 1-	30.00	66.14





R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4461N-FZ	18.30	1.12	CSIR	F	2928	858	5.47	1.60	5664	1660	8.02	2.35	2580	756	5.46	1.60	4847	1420	7.43	2.18	220 - 240 1-	18.40	40.56
AJ4461N-TZ	18.30	1.12	TRI	F	3070	900	6.29	1.84	5931	1738	9.29	2.72	2704	792	6.25	1.83	5054	1481	8.53	2.50	400 3-	17.80	39.24
AJ4476N-FZ	21.80	1.34	CSIR	F	3351	982	5.42	1.59	6739	1975	8.10	2.37	3026	887	5.44	1.59	5769	1690	7.49	2.19	220 - 240 1-	18.50	40.79
AJ4492N-FZ	25.95	1.59	CSIR	F	4265	1250	5.86	1.72	8412	2465	8.49	2.49	3801	1114	5.86	1.72	7187	2106	7.86	2.30	220 - 240 1-	19.80	43.65
AJ4492N-TZ	25.95	1.59	TRI	F	4401	1289	6.41	1.88	8720	2555	9.41	2.76	3911	1146	6.39	1.87	7425	2176	8.65	2.53	400 3-	19.90	43.87
AJ4511N-FZ	32.70	2.01	CSR	F	5767	1690	6.65	1.95	10806	3166	9.22	2.70	5100	1494	6.66	1.95	9253	2711	8.56	2.51	220 - 240 1-	20.80	45.86
AJ4511N-TZ	32.70	2.01	TRI	F	5788	1696	6.10	1.79	10812	3168	8.70	2.55	5052	1480	6.06	1.78	9202	2696	7.99	2.34	400 3-	19.30	42.55
AJ4513N-FZ	34.45	2.11	CSR	F	6221	1823	6.49	1.90	11524	3377	9.10	2.67	5425	1590	6.43	1.88	9815	2876	8.38	2.46	220 - 240 1-	21.40	47.18



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4461N-FZ	18.30	1.12	CSIR	F	2591	759	4.57	1.34	5530	1620	7.36	2.16	2613	766	5.19	1.52	4978	1459	7.18	2.10	220 - 240 1-	18.40	40.56
AJ4461N-TZ	18.30	1.12	TRI	F	2717	796	5.26	1.54	5794	1698	8.54	2.50	2739	803	5.94	1.74	5192	1521	8.24	2.41	400 3-	17.80	39.24
AJ4476N-FZ	21.80	1.34	CSIR	F	2925	857	4.47	1.31	6657	1951	7.52	2.20	3025	886	5.10	1.49	5956	1745	7.28	2.13	220 - 240 1-	18.50	40.79
AJ4492N-FZ	25.95	1.59	CSIR	F	3968	1163	5.15	1.51	7995	2343	7.59	2.22	4076	1194	5.89	1.73	7277	2132	7.48	2.19	220 - 240 1-	19.80	43.65
AJ4492N-TZ	25.95	1.59	TRI	F	4048	1186	5.56	1.63	8321	2438	8.44	2.47	4146	1215	6.35	1.86	7532	2207	8.26	2.42	400 3-	19.90	43.87
AJ4511N-TZ	32.70	2.01	TRI	F	5280	1547	5.70	1.67	10203	2989	8.14	2.39	5375	1575	6.59	1.93	9316	2730	8.08	2.37	400 3-	19.30	42.55
AJ4511N-FZ	32.70	2.01	CSR	F	5358	1570	5.84	1.71	10270	3009	8.24	2.41	5462	1600	6.68	1.96	9368	2745	8.16	2.39	220 - 240 1-	20.80	45.86
AJ4513N-FZ	34.45	2.11	CSR	F	5507	1614	5.42	1.59	11257	3298	8.36	2.45	5495	1610	6.10	1.79	10082	2954	8.10	2.37	220 - 240 1-	21.40	47.18



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-1234yf)								ENI2900 (R-1234yf)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4461N-FZ	18.30	1.12	CSIR	F	2470	724	4.49	1.32	5045	1478	7.01	2.05	2549	747	5.20	1.52	4567	1338	6.84	2.00	220 - 240 1-	18.40	40.56
AJ4461N-TZ	18.30	1.12	TRI	F	2560	750	5.09	1.49	5225	1531	8.04	2.36	2606	764	5.74	1.68	4706	1379	7.75	2.27	400 3-	17.80	39.24
AJ4476N-FZ	21.80	1.34	CSIR	F	2975	872	4.78	1.40	6110	1790	7.42	2.17	3148	922	5.62	1.65	5570	1632	7.28	2.13	220 - 240 1-	18.50	40.79
AJ4492N-FZ	25.95	1.59	CSIR	F	3815	1118	4.85	1.42	7640	2239	7.39	2.17	3963	1161	5.65	1.66	6942	2034	7.26	2.13	220 - 240 1-	19.80	43.65
AJ4492N-TZ	25.95	1.59	TRI	F	3821	1120	5.36	1.57	7732	2265	8.19	2.40	3961	1161	6.23	1.83	7017	2056	7.99	2.34	400 3-	19.90	43.87
AJ4511N-FZ	32.70	2.01	CSR	F	4921	1442	5.51	1.61	9487	2780	7.91	2.32	5076	1487	6.36	1.86	8623	2527	7.76	2.27	220 - 240 1-	20.80	45.86
AJ4511N-TZ	32.70	2.01	TRI	F	4927	1444	5.21	1.53	9543	2796	7.68	2.25	5064	1484	6.02	1.76	8651	2535	7.48	2.19	400 3-	19.30	42.55
AJ4513N-FZ	34.45	2.11	CSR	F	5151	1509	5.29	1.55	9848	2885	7.73	2.26	5260	1541	6.14	1.80	8926	2615	7.57	2.22	220 - 240 1-	21.40	47.18



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518N-XG	48.50	2.98	TRI	F	6315	1850	6.06	1.78	13886	4069	9.86	2.89	6446	1889	7.05	2.07	12704	3722	9.78	2.87	380-420 3-	29.00	63.93
FH4518N-XC	48.50	2.98	CSR	F	6965	2041	6.09	1.78	14857	4353	9.90	2.90	6923	2028	6.76	1.98	13512	3959	9.73	2.85	220 - 240 1-	30.00	66.14
FH4525N-XG	63.00	3.87	TRI	F	8821	2585	6.39	1.87	18531	5430	9.81	2.87	8809	2581	7.30	2.14	16882	4946	9.72	2.85	380-420 3-	29.00	63.93
FH4525N-XC	63.00	3.87	CSR	F	9137	2677	6.27	1.84	19138	5607	9.56	2.80	8967	2627	7.02	2.06	17289	5066	9.40	2.75	220 - 240 1-	30.00	66.14





R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518N-XG	48.50	2.98	TRI	F	6407	1877	5.84	1.71	14127	4139	9.59	2.81	6637	1945	6.76	1.98	12889	3776	9.41	2.76	380-420 3-	29.00	63.93
FH4518N-XC	48.50	2.98	CSR	F	7067	2071	5.86	1.72	15114	4428	9.64	2.82	7129	2089	6.48	1.90	13707	4016	9.38	2.75	220 - 240 1-	30.00	66.14
FH4525N-XG	63.00	3.87	TRI	F	8951	2623	6.14	1.80	18851	5523	9.54	2.80	9074	2659	6.99	2.05	17128	5019	9.36	2.74	380-420 3-	29.00	63.93
FH4525N-XC	63.00	3.87	CSR	F	9274	2717	6.03	1.77	19466	5704	9.30	2.72	9237	2706	6.72	1.97	17540	5139	9.06	2.65	220 - 240 1-	30.00	66.14



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-1234yf)								ENI2900 (R-1234yf)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518N-XG	48.50	2.98	TRI	F	6177	1810	5.87	1.72	13039	3820	9.32	2.73	6562	1923	6.87	2.01	11903	3488	9.11	2.67	380-420 3-	29.00	63.93
FH4518N-XC	48.50	2.98	CSR	F	6812	1996	5.89	1.73	13951	4088	9.37	2.75	7050	2066	6.59	1.93	12660	3709	9.08	2.66	220 - 240 1-	30.00	66.14
FH4525N-XG	63.00	3.87	TRI	F	8629	2528	6.18	1.81	17400	5098	9.28	2.72	8972	2629	7.11	2.08	15819	4635	9.06	2.65	380-420 3-	29.00	63.93
FH4525N-XC	63.00	3.87	CSR	F	8938	2619	6.06	1.78	17969	5265	9.04	2.65	9133	2676	6.84	2.00	16201	4747	8.77	2.57	220 - 240 1-	30.00	66.14



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4528N-TZ	90.20	5.54	TRI	F	10842	3177	6.53	1.91	24621	7214	10.10	2.96	9106	2668	6.31	1.85	20820	6100	9.34	2.74	400V 3-	42.30	93.25
AG4534N-TZ	100.70	6.18	TRI	F	13911	4076	7.00	2.05	29370	8605	10.10	2.96	12068	3536	6.99	2.05	25020	7331	9.41	2.76	400V 3-	42.30	93.25
AG4537N-TZ	112.50	6.91	TRI	F	15916	4663	7.12	2.09	33197	9727	10.30	3.02	13904	4074	7.13	2.09	28306	8294	9.53	2.79	400V 3-	42.30	93.25
AG4543N-TZ	124.40	7.64	TRI	F	16605	4865	6.92	2.03	35702	10461	10.00	2.93	14473	4241	6.96	2.04	30290	8875	9.28	2.72	400V 3-	42.30	93.25
AG4547N-TZ	134.80	8.28	TRI	F	18888	5534	6.69	1.96	38592	11307	9.35	2.74	16849	4937	6.60	1.93	32963	9658	8.52	2.50	400V 3-	43.00	94.80



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4528N-TZ	90.20	5.54	TRI	F	8802	2579	5.18	1.52	21832	6397	8.73	2.56	9447	2768	5.90	1.73	19970	5851	8.43	2.47	400V 3-	42.30	93.25
AG4534N-TZ	100.70	6.18	TRI	F	10750	3150	5.34	1.56	25345	7426	8.77	2.57	11323	3318	6.08	1.78	23122	6775	8.47	2.48	400V 3-	42.30	93.25
AG4537N-TZ	112.50	6.91	TRI	F	12672	3713	5.49	1.61	28726	8417	8.70	2.55	13244	3880	6.23	1.83	26162	7665	8.41	2.46	400V 3-	42.30	93.25
AG4543N-TZ	124.40	7.64	TRI	F	14665	4297	5.66	1.66	32328	9472	8.66	2.54	15202	4454	6.46	1.89	29417	8619	8.40	2.46	400V 3-	42.30	93.25
AG4547N-TZ	134.80	8.28	TRI	F	16785	4918	5.62	1.65	35700	10460	8.43	2.47	17306	5071	6.34	1.86	32461	9511	8.15	2.39	400V 3-	43.00	94.80



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-1234yf)								ENI2900 (R-1234yf)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4528N-TZ	90.20	5.54	TRI	F	8707	2551	5.12	1.50	20964	6142	8.62	2.53	9545	2797	5.96	1.75	19227	5634	8.32	2.44	400V 3-	42.30	93.25
AG4534N-TZ	100.70	6.18	TRI	F	10636	3116	5.28	1.55	24336	7130	8.66	2.54	11440	3352	6.14	1.80	22261	6522	8.36	2.45	400V 3-	42.30	93.25
AG4537N-TZ	112.50	6.91	TRI	F	12537	3673	5.42	1.59	27583	8082	8.59	2.52	13381	3921	6.30	1.85	25188	7380	8.30	2.43	400V 3-	42.30	93.25
AG4543N-TZ	124.40	7.64	TRI	F	14453	4235	5.54	1.62	30858	9041	8.53	2.50	15338	4494	6.43	1.88	28140	8245	8.25	2.42	400V 3-	42.30	93.25
AG4547N-TZ	134.80	8.28	TRI	F	16605	4865	5.56	1.63	34280	10044	8.32	2.44	17486	5123	6.41	1.88	31253	9157	8.05	2.36	400V 3-	43.00	94.80





R-404A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	ASHRAE +7.2°C (+45°F)				ARI +7.2°C (+45°F)				ENI2900 +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AWS4516ZXG	30.56	1.88	TRI	F	13500	3953	9.38	2.75	10200	2987	3.82	1.12	6800	1991	4.03	1.18	380 3~	27.00	59.52
AWS4516ZXN	30.56	1.88	CSR	F	14000	4099	9.40	2.75	12964	3796	8.79	2.57	11662	3415	8.45	2.47	220 1~	26.00	57.32
AWS4520ZXN	35.60	2.19	CSR	F	17500	5129	9.36	2.74	16200	4748	8.76	2.57	14580	4273	8.42	2.47	220 1~	26.50	58.42
AWS4522ZXG	39.66	2.43	TRI	F	19400	5681	9.70	2.84	17964	5260	9.07	2.66	16160	4732	8.73	2.56	380 3~	26.00	57.32
AWS4522ZKZ	39.60	2.43	TRI	F	19500	5710	9.75	2.86	18057	5287	9.12	2.67	16244	4756	8.77	2.57	220 3~	26.00	57.32
AWS4522ZXN	39.60	2.43	CSR	F	20200	5915	9.53	2.79	18705	5477	8.91	2.61	16827	4927	8.57	2.51	220 1~	26.00	57.32
AWS4524ZXG	43.10	2.65	TRI	F	21000	6149	9.55	2.80	19446	5694	8.93	2.61	17493	5122	8.59	2.51	380 3~	27.00	59.52
AWS4524ZXC	43.30	2.66	CSR	F	21400	6266	9.39	2.75	19816	5802	8.78	2.57	17826	5220	8.44	2.47	220 1~	27.00	59.52
AWS4524ZKZ	43.30	2.66	TRI	F	21600	6331	9.60	2.81	-	-	-	-	-	-	-	-	220 3~	26.50	58.42
AWS4524ZXN	43.30	2.66	CSR	F	22300	6530	9.57	2.80	20739	6073	8.95	2.62	19557	5726	8.98	2.63	220 1~	28.00	61.73
AWS4532ZXG	50.60	3.11	TRI	F	25600	7496	9.70	2.84	23706	6941	9.07	2.66	21325	6244	8.72	2.55	380 3~	28.00	61.73
AWS4532ZKZ	50.60	3.11	TRI	F	26200	7672	9.70	2.84	24261	7104	9.08	2.66	21825	6391	8.73	2.56	220 3~	28.00	61.73
AWS4532ZXC	50.60	3.11	CSR	F	26500	7759	9.81	2.87	24539	7185	9.18	2.69	22075	6464	8.83	2.59	220 1~	30.00	66.14
AWS4532ZXN	50.60	3.11	CSR	F	27000	7906	9.31	2.73	25002	7321	8.71	2.55	22491	6586	8.38	2.45	220 1~	29.00	63.93
AWS4535ZXG	59.00	3.62	TRI	F	31300	9174	9.84	2.88	-	-	-	-	-	-	-	-	380 3~	29.50	66.14
AWS4538ZXG	63.00	3.87	TRI	F	33500	9809	9.71	2.84	31021	9083	9.08	2.66	27906	8171	8.73	2.56	380 3~	30.00	66.14
AWS4538ZXC	63.00	3.87	CSR	F	33600	9838	9.46	2.77	31114	9111	8.85	2.59	27989	8195	8.52	2.49	220 1~	30.00	66.14
AWS4538ZKZ	63.00	3.87	TRI	F	33800	9897	9.80	2.87	31299	9165	9.16	2.68	28155	8244	8.81	2.58	220 3~	30.00	66.14
AWS4538ZXN	63.00	3.87	CSR	F	34600	10131	9.56	2.80	32040	9382	8.94	2.62	28822	8439	8.60	2.52	220 1~	30.00	66.14
AWS4544ZXG	68.00	4.17	TRI	F	37000	10834	9.11	2.67	34262	10032	8.53	2.50	30821	9025	8.20	2.40	380 3~	30.00	66.14
AWS4544ZKZ	68.00	4.17	TRI	F	38000	11127	9.50	2.78	35188	10303	8.89	2.60	31654	9269	8.55	2.50	220 3~	30.00	66.14





R-407C

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	ASHRAE +7.2°C (+45°F)				ARI +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AWR4514CGF	30.60	1.88	TRI	F	11700	3429	9.21	2.70	11100	3253	8.74	2.56	400 3~	28.00	61.73
AWR4514CGE	30.60	1.88	CSR	F	11900	3488	9.44	2.77	11300	3312	8.97	2.63	230 1~	28.00	61.73
AWR4522CGH	43.26	2.66	CSR	F	19000	5568	10.00	2.93	-	-	-	-	230 1~	28.00	61.73
AWR4522CGF	43.26	2.66	TRI	F	19500	5718	9.85	2.88	-	-	-	-	400 3~	28.00	61.73
AWR4530CGH	49.50	3.04	CSR	F	24500	7180	10.30	3.02	-	-	-	-	230 1~	30.00	66.14
AWR4530CGF	54.30	3.33	TRI	F	26400	7737	10.25	3.00	-	-	-	-	400 3~	29.00	63.93
AWR4535CGF	63.00	3.87	TRI	F	28900	8470	9.83	2.88	28100	8236	9.56	2.80	400 3~	28.00	61.73
AWR4535CXC	63.00	3.87	CSR	F	29000	8499	9.73	2.45	28100	8236	9.43	2.76	220 1~	30.00	66.14
AWR4540CGF	68.00	4.17	TRI	F	33200	9730	9.60	2.81	32600	9555	9.42	2.76	400 3~	28.00	61.73





R-22

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE								ENI2900								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480T-FZ	15.20	0.93	CSR	F	3676	1077	5.28	1.55	6840	2004	8.01	2.35	3623	1062	5.88	1.72	6322	1852	7.99	2.34	220 - 240 1-	19.10	42.11
CAJ9480T-GZ	15.20	0.93	CSR	F	4036	1183	5.92	1.73	7167	2100	8.51	2.49	4134	1211	6.64	1.95	6719	1969	8.55	2.51	208 - 220 1-	20.60	45.41
CAJ9480T-XA	15.20	0.93	CSR	F	4036	1183	5.79	1.70	7167	2100	8.29	2.43	4134	1211	6.52	1.91	6719	1969	8.34	2.44	100 1- / 115 1-	20.60	45.41
TAJ9480T-TZ	15.20	0.93	TRI	F	4036	1183	5.66	1.66	7167	2100	8.12	2.38	4134	1211	6.37	1.87	6719	1969	8.16	2.39	400 3- / 440 3-	19.40	42.77
CAJ9510T-FZ	18.30	1.12	CSR	F	4651	1363	5.44	1.59	8511	2494	8.12	2.38	4530	1327	6.05	1.77	7834	2295	8.09	2.37	220 - 240 1-	20.70	45.64
CAJ9510T-GZ	18.30	1.12	CSR	F	4694	1375	5.41	1.59	8529	2499	8.08	2.37	4544	1331	6.00	1.76	7843	2298	8.03	2.35	208 - 220 1-	21.30	46.96
TAJ9510T-KZ	18.30	1.12	TRI	F	4894	1434	5.90	1.73	8555	2507	8.48	2.48	5025	1472	6.64	1.95	8042	2356	8.52	2.50	220 3- / 220 3-	19.10	42.11
TAJ9510T-TZ	18.30	1.12	TRI	F	4894	1434	5.81	1.70	8555	2507	8.01	2.35	5025	1472	6.61	1.94	8042	2356	8.09	2.37	400 3- / 440 3-	19.60	43.21
CAJ9510T-XA	18.30	1.12	CSR	F	4894	1434	5.72	1.68	8555	2507	7.93	2.32	5025	1472	6.45	1.89	8042	2356	8.03	2.35	100 1- / 115 1-	21.80	48.06
CAJ9513T-FZ	24.20	1.49	CSR	F	5929	1737	5.78	1.69	11093	3250	8.64	2.53	5852	1715	6.55	1.92	10273	3010	8.69	2.55	220 - 240 1-	22.00	48.50
TAJ9513T-TZ	24.20	1.49	TRI	F	5898	1728	5.68	1.66	11106	3254	8.56	2.51	5823	1706	6.50	1.90	10282	3013	8.62	2.53	400 3- / 440 3-	19.30	42.55
CAJ9513T-GZ	24.20	1.49	CSR	F	5958	1746	5.72	1.68	11241	3294	8.70	2.55	5883	1724	6.50	1.90	10383	3042	8.74	2.56	208 - 220 1-	22.20	48.94
CAJ4517T-GZ	25.95	1.59	CSR	F	6681	1958	5.82	1.71	12296	3603	8.64	2.53	6549	1919	6.58	1.93	11359	3328	8.68	2.54	208 - 220 1-	24.00	52.91
TAJ4517T-KZ	25.95	1.59	TRI	F	6811	1996	6.12	1.79	12366	3623	8.91	2.61	6849	2007	6.82	2.00	11604	3400	8.93	2.62	220 3- / 220 3-	20.50	45.19
CAJ4517T-FZ	25.95	1.59	CSR	F	6811	1996	6.13	1.80	12366	3623	8.87	2.60	6849	2007	6.82	2.00	11604	3400	8.92	2.61	220 - 240 1-	23.30	51.37
TAJ4517T-TZ	25.95	1.59	TRI	F	6811	1996	5.87	1.72	12366	3623	8.57	2.51	6849	2007	6.46	1.89	11604	3400	8.62	2.53	400 3- / 440 3-	19.30	42.55
TAJ4519T-TZ	34.50	2.12	TRI	F	9203	2696	6.30	6.08	16142	4730	8.61	2.52	9438	2765	6.80	1.99	15186	4449	8.69	2.55	400 3- / 440 3-	20.20	44.53
CAJ4519T-GZ	34.45	2.11	CSR	F	9203	2696	5.91	1.73	16142	4730	8.33	2.44	9438	2765	6.65	1.95	15186	4449	8.40	2.46	208 - 220 1-	22.60	49.82
TAJ4519T-KZ	34.45	2.11	TRI	F	9199	2695	6.08	6.30	16160	4735	8.78	2.57	9422	2761	7.14	2.09	15187	4450	8.85	2.59	220 3- / 220 3-	21.20	46.74





R-22

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					+7.2°C (+45°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AWS4515EGF	30.60	1.88	TRI	F	13000	3810	9.85	2.88	400 3~	27.00	59.52
AWS4515EGE	30.60	1.88	CSR	F	13500	3956	10.40	3.05	230 1-	26.00	57.32
AWS4520EGF	39.60	2.43	TRI	F	16800	4294	9.85	2.88	400 3~	28.00	61.73
AWS4522ELZ	39.60	2.43	TRI	F	18200	5334	9.97	2.92	380 3~	26.00	57.32
AWS4522EKZ	39.60	2.43	TRI	F	18400	5393	10.22	3.00	220 3~	26.00	57.32
AWS4522EXN	39.60	2.43	CSR	F	19000	5569	9.74	2.86	220 1-	26.00	57.32
AWS4524EGF	43.26	2.66	TRI	F	19500	5715	9.85	2.88	400 3~	28.00	61.73
AWS4524EGE	43.26	2.66	CSR	F	20700	6066	9.95	2.91	230 1-	28.00	61.73
AWS4532ELZ	50.60	3.11	TRI	F	24300	7122	10.13	2.97	380 3~	28.00	61.73
AWS4532EKZ	50.60	3.11	TRI	F	24600	7210	10.21	2.99	220 3~	28.00	61.73
AWS4532EXN	50.60	3.11	CSR	F	25100	7356	9.47	2.78	220 1-	29.00	63.93
AWS4532EGF	54.30	3.33	TRI	F	26400	7737	10.25	3.00	400 3~	29.00	63.93
AWS4532EGH	54.30	3.33	PTCS_CR	F	26800	7854	9.85	2.88	230 1-	29.00	63.93
AWS4538EXC	63.00	3.87	CSR	F	31500	9232	9.84	2.88	220 1-	30.00	66.14
AWS4538ELZ	63.00	3.87	TRI	F	31600	9261	10.13	2.97	380 3~	30.00	66.14
AWS4538EGF	63.00	3.87	TRI	F	31900	9349	10.37	3.04	400 3~	30.00	66.14
AWS4538EKZ	63.00	3.87	TRI	F	32000	9379	9.94	2.91	220 3~	30.00	66.14
AWS4542EXG	68.00	4.17	TRI	F	35660	10451	10.20	2.89	380 3~	31.00	68.34



R-22

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE								ENI2900								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546T	90.20	5.54	TRI	F	18313	5366	6.69	1.96	37951	11120	9.88	2.89	18405	5393	7.70	2.26	34985	10251	9.91	2.90	220V 3-	44.00	97.00
TAG4546T	90.20	5.54	TRI	F	18313	5366	6.69	1.96	37951	11120	9.88	2.89	18405	5393	7.70	2.26	34985	10251	9.91	2.90	400V 3-	44.00	97.00
TAG4553T	100.70	6.18	TRI	F	21991	6443	6.89	2.02	43551	12760	9.98	2.92	21851	6402	7.65	2.24	40263	11797	10.10	2.96	220V 3-	46.00	101.41
TAG4553T	100.70	6.18	TRI	F	21991	6443	6.89	2.02	43551	12760	9.98	2.92	21851	6402	7.65	2.24	40263	11797	10.10	2.96	400V 3-	46.00	101.41
TAG4561T	112.50	6.91	TRI	F	25293	7411	6.78	1.99	50772	14876	9.95	2.92	25204	7385	7.51	2.20	46733	13693	9.94	2.91	220V 3-	46.00	101.41
TAG4561T	112.50	6.91	TRI	F	25293	7411	6.78	1.99	50772	14876	9.95	2.92	25204	7385	7.51	2.20	46733	13693	9.94	2.91	400V 3-	46.00	101.41
TAG4568T	124.40	7.64	TRI	F	28655	8396	6.75	1.98	56896	16671	9.84	2.88	28305	8293	7.51	2.20	52608	15414	9.90	2.90	220V 3-	48.00	105.82
TAG4568T	124.40	7.64	TRI	F	28655	8396	6.91	2.02	56896	16671	9.79	2.87	28305	8293	7.77	2.28	52608	15414	9.87	2.89	400V 3-	48.00	105.82
TAG4573T	134.80	8.28	TRI	F	30778	9018	6.74	1.97	61158	17919	9.26	2.71	31066	9102	7.71	2.26	56357	16513	9.30	2.72	220V 3-	48.00	105.82
TAG4573T	134.80	8.28	TRI	F	30778	9018	6.74	1.97	61158	17919	9.26	2.71	31066	9102	7.71	2.26	56357	16513	9.30	2.72	400V 3-	48.00	105.82
TAG4581T	145.00	8.90	TRI	F	34024	9969	6.18	1.81	63810	18696	8.91	2.61	33062	9687	6.81	2.00	58487	17137	8.81	2.58	400V 3-	48.10	106.04



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480Z-FZ	15.2	0.93	CSR	F	3718	1089	4.79	1.40	7042	2063	7.33	2.15	3952	1158	5.71	1.67	6406	1877	7.16	2.10	220 - 240 1-	20.10	44.31
TAJ9480Z-TZ	15.2	0.93	TRI	F	3800	1113	4.87	1.43	7250	2124	7.53	2.21	4024	1179	5.81	1.70	6576	1927	7.34	2.15	400 3- / 440 3-	19.80	43.65
CAJ9480Z-GZ	15.2	0.93	CSR	F	4021	1178	5.22	1.53	7431	2177	7.50	2.20	4251	1246	6.10	1.79	6750	1978	7.35	2.15	208 - 220 1-	20.50	45.19
CAJ9480Z-XA	15.2	0.93	CSR	F	4021	1178	5.22	1.53	7431	2177	7.50	2.20	4251	1246	6.10	1.79	6750	1978	7.35	2.15	100 1- / 115 1-	20.70	45.64
CAJ9510Z-GZ	18.3	1.12	CSR	F	4714	1381	4.86	1.42	8747	2563	7.23	2.12	4978	1459	5.79	1.70	7934	2325	7.06	2.07	208 - 220 1-	23.00	50.71
CAJ9510Z-FZ	18.3	1.12	CSR	F	4685	1373	4.93	1.44	8815	2583	7.42	2.17	4956	1452	5.87	1.72	8007	2346	7.25	2.12	220 - 240 1-	21.40	47.18
TAJ9510Z-TZ	18.3	1.12	TRI	F	4723	1384	4.82	1.41	8816	2583	7.23	2.12	4980	1459	5.74	1.68	7989	2341	7.05	2.07	400 3- / 440 3-	20.00	44.09
CAJ9510Z-XA	18.3	1.12	CSR	F	4999	1465	4.99	1.46	9043	2650	7.10	2.08	5281	1547	5.91	1.73	8270	2423	7.01	2.05	100 1- / 115 1-	23.00	50.71
CAJ9513Z-XA	24.2	1.49	CSR	F	5541	1624	4.84	1.42	10945	3207	7.48	2.19	5928	1737	5.88	1.72	9971	2922	7.37	2.16	100 1- / 115 1-	21.50	47.40
TAJ9513Z-TZ	24.2	1.49	TRI	F	5600	1641	4.94	1.45	10962	3212	7.55	2.21	5987	1754	6.02	1.76	9966	2920	7.42	2.17	400 3- / 440 3-	19.90	43.87
CAJ9513Z-GZ	24.2	1.49	CSR	F	5867	1719	5.12	1.50	11321	3317	7.81	2.29	6264	1835	6.20	1.82	10311	3021	7.69	2.25	208 - 220 1-	22.30	49.16
CAJ9513Z-FZ	24.2	1.49	CSR	F	5824	1706	5.20	1.52	11327	3319	7.91	2.32	6229	1825	6.29	1.84	10323	3025	7.79	2.28	220 - 240 1-	21.50	47.40
CAJ4517Z-FZ	25.95	1.59	CSR	F	6635	1944	5.23	1.53	12447	3647	7.77	2.28	7058	2068	6.29	1.84	11326	3319	7.63	2.24	220 - 240 1-	21.60	47.62
TAJ4517Z-TZ	25.95	1.59	TRI	F	6573	1926	4.90	1.44	12626	3699	7.49	2.19	7018	2056	5.94	1.74	11480	3364	7.35	2.15	400 3- / 440 3-	20.00	44.09
TAJ4517Z-KZ	25.95	1.59	TRI	F	7134	2090	5.59	1.64	13167	3858	8.28	2.43	7517	2202	6.59	1.93	12000	3516	8.10	2.37	220 3- / 220 3-	20.80	45.86
CAJ4517Z-GZ	25.95	1.59	CSR	F	7134	2090	5.54	1.62	13167	3858	8.12	2.38	7517	2202	6.55	1.92	12000	3516	7.96	2.33	208 - 220 1-	22.90	50.49
TAJ4519Z-TZ	34.45	2.11	TRI	F	8611	2523	4.97	1.46	15959	4676	7.28	2.13	9086	2662	5.97	1.75	14480	4243	7.13	2.09	400 3- / 440 3-	21.10	46.52
TAJ4519Z-KZ	34.45	2.11	TRI	F	8584	2515	4.99	1.46	15964	4677	7.35	2.15	8971	2629	5.90	1.73	14454	4235	7.13	2.09	220 3- / 220 3-	21.50	47.40
CAJ4519Z-FZ	34.5	2.12	CSR	F	8680	2543	4.85	1.42	16337	4787	7.29	2.14	9205	2697	5.77	1.69	14867	4356	7.12	2.09	220 - 240 1-	22.30	49.16
CAJ4519Z-GZ	34.5	2.12	CSR	F	9428	2762	5.42	1.59	17179	5033	7.81	2.29	9914	2905	6.38	1.87	15705	4602	7.70	2.26	208 - 220 1-	22.90	50.49

COMPRESSORS - 50Hz



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE(R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480Z-FZ	15.2	0.93	CSR	F	3786	1109	5.11	1.50	7353	2154	7.86	2.30	3822	1120	5.85	1.71	6654	1950	7.71	2.26	220 - 240 1-	20.10	44.31
TAJ9480Z-TZ	15.2	0.93	TRI	F	3876	1136	5.21	1.53	7585	2222	8.10	2.37	3897	1142	5.96	1.75	6842	2005	7.92	2.32	400 3- / 440 3-	19.80	43.65
CAJ9510Z-FZ	18.3	1.12	CSR	F	4770	1398	5.26	1.54	9206	2697	7.95	2.33	4796	1405	6.01	1.76	8321	2438	7.80	2.29	220 - 240 1-	21.40	47.18
CAJ9510Z-GZ	18.3	1.12	CSR	F	4797	1406	5.19	1.52	9130	2675	7.74	2.27	4812	1410	5.92	1.73	8242	2415	7.58	2.22	208 - 220 1-	23.00	50.71
TAJ9510Z-TZ	18.3	1.12	TRI	F	4812	1410	5.14	1.51	9212	2699	7.75	2.27	4818	1412	5.87	1.72	8306	2434	7.59	2.22	400 3- / 440 3-	20.00	44.09
CAJ9513Z-XA	24.2	1.49	CSR	F	5670	1661	5.16	1.51	11436	3351	7.99	2.34	5757	1687	6.02	1.76	10364	3037	7.90	2.31	100 1- / 115 1-	21.50	47.40
TAJ9513Z-TZ	24.2	1.49	TRI	F	5722	1677	5.27	1.54	11469	3360	8.08	2.37	5802	1700	6.14	1.80	10369	3038	7.95	2.33	400 3- / 440 3-	19.90	43.87
CAJ9513Z-FZ	24.2	1.49	CSR	F	5944	1742	5.54	1.62	11821	3464	8.45	2.48	6040	1770	6.43	1.88	10721	3141	8.35	2.45	220 - 240 1-	21.50	47.40
CAJ9513Z-GZ	24.2	1.49	CSR	F	5981	1752	5.45	1.60	11819	3463	8.34	2.44	6069	1778	6.34	1.86	10712	3139	8.24	2.41	208 - 220 1-	22.30	49.16
TAJ4517Z-TZ	25.95	1.59	TRI	F	6709	1966	5.22	1.53	13184	3863	8.00	2.34	6798	1992	6.07	1.78	11926	3494	7.88	2.31	400 3- / 440 3-	20.00	44.09
CAJ4517Z-FZ	25.95	1.59	CSR	F	6749	1977	5.57	1.63	12986	3805	8.29	2.43	6819	1998	6.42	1.88	11757	3445	8.17	2.39	220 - 240 1-	21.60	47.62
CAJ4517Z-GZ	25.95	1.59	CSR	F	7265	2129	5.90	1.73	13632	3994	8.62	2.53	7289	2136	6.74	1.97	12398	3633	8.50	2.49	208 - 220 1-	22.90	50.49
TAJ4517Z-KZ	25.95	1.59	TRI	F	7265	2129	5.96	1.75	13632	3994	8.80	2.58	7289	2136	6.79	1.99	12398	3633	8.67	2.54	220 3- / 220 3-	20.80	45.86
TAJ4519Z-KZ	34.45	2.11	TRI	F	8766	2568	5.34	1.56	16667	4883	7.86	2.30	8707	2551	6.05	1.77	15024	4402	7.67	2.25	220 3- / 220 3-	21.50	47.40
TAJ4519Z-TZ	34.45	2.11	TRI	F	8775	2571	5.30	1.55	16644	4877	7.76	2.27	8792	2576	6.09	1.78	15031	4404	7.64	2.24	400 3- / 440 3-	21.10	46.52
CAJ4519Z-FZ	34.5	2.12	CSR	F	8841	2590	5.18	1.52	17031	4990	7.78	2.28	8914	2612	5.92	1.73	15430	4521	7.65	2.24	220 - 240 1-	22.30	49.16
CAJ4519Z-GZ	34.5	2.12	CSR	F	9598	2812	5.77	1.69	17736	5197	8.25	2.42	9627	2821	6.58	1.93	16185	4742	8.19	2.40	208 - 220 1-	22.90	50.49
TAJ4519Z-KZ	34.45	2.11	TRI	F	8584	2515	4.99	1.46	15964	4677	7.35	2.15	8971	2629	5.90	1.73	14454	4235	7.13	2.09	220 3- / 220 3-	21.50	47.40
CAJ4519Z-FZ	34.5	2.12	CSR	F	8680	2543	4.85	1.42	16337	4787	7.29	2.14	9205	2697	5.77	1.69	14867	4356	7.12	2.09	220 - 240 1-	22.30	49.16
CAJ4519Z-GZ	34.5	2.12	CSR	F	9428	2762	5.42	1.59	17179	5033	7.81	2.29	9914	2905	6.38	1.87	15705	4602	7.70	2.26	208 - 220 1-	22.90	50.49

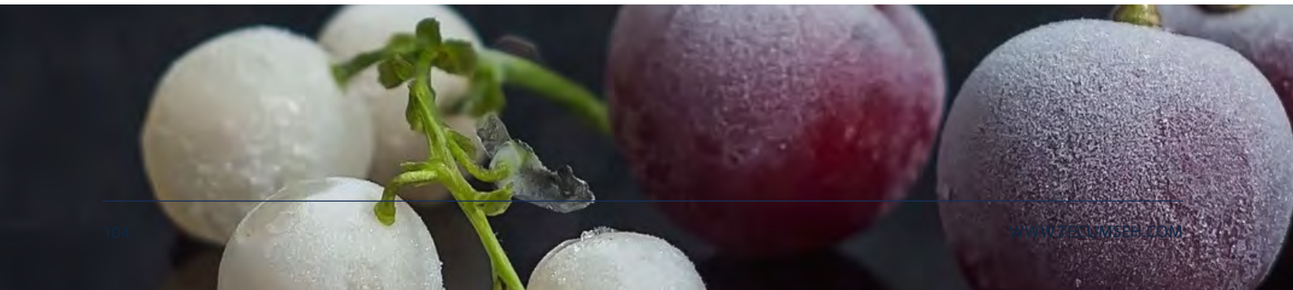




R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480Z-FZ	15.2	0.93	CSR	F	3776	1106	5.10	1.49	7348	2153	7.85	2.30	3814	1118	5.85	1.71	6643	1946	7.70	2.26	220 - 240 1-	20.10	44.31
TAJ9480Z-TZ	15.2	0.93	TRI	F	3866	1133	5.20	1.52	7580	2221	8.10	2.37	3889	1139	5.95	1.74	6830	2001	7.91	2.32	400 3- / 440 3-	19.80	43.65
CAJ9510Z-GZ	18.3	1.12	CSR	F	4785	1402	5.18	1.52	9124	2673	7.73	2.26	4802	1407	5.91	1.73	8228	2411	7.57	2.22	208 - 220 1-	23.00	50.71
CAJ9510Z-FZ	18.3	1.12	CSR	F	4758	1394	5.25	1.54	9200	2696	7.95	2.33	4786	1402	6.00	1.76	8307	2434	7.79	2.28	220 - 240 1-	21.40	47.18
TAJ9510Z-TZ	18.3	1.12	TRI	F	4800	1406	5.13	1.50	9206	2697	7.75	2.27	4808	1409	5.86	1.72	8292	2430	7.58	2.22	400 3- / 440 3-	20.00	44.09
CAJ9513Z-XA	24.2	1.49	CSR	F	5653	1656	5.15	1.51	11428	3348	7.99	2.34	5744	1683	6.01	1.76	10346	3031	7.89	2.31	100 1- / 115 1-	21.50	47.40
TAJ9513Z-TZ	24.2	1.49	TRI	F	5706	1672	5.26	1.54	11460	3358	8.07	2.36	5790	1696	6.13	1.80	10350	3033	7.94	2.33	400 3- / 440 3-	19.90	43.87
CAJ9513Z-GZ	24.2	1.49	CSR	F	5965	1748	5.44	1.59	11810	3460	8.34	2.44	6056	1774	6.33	1.85	10693	3133	8.23	2.41	208 - 220 1-	22.30	49.16
CAJ9513Z-FZ	24.2	1.49	CSR	F	5927	1737	5.53	1.62	11812	3461	8.44	2.47	6027	1766	6.42	1.88	10701	3135	8.33	2.44	220 - 240 1-	21.50	47.40
CAJ4517Z-FZ	25.95	1.59	CSR	F	6732	1972	5.56	1.63	12977	3802	8.29	2.43	6805	1994	6.41	1.88	11737	3439	8.16	2.39	220 - 240 1-	21.60	47.62
TAJ4517Z-TZ	25.95	1.59	TRI	F	6690	1960	5.21	1.53	13176	3861	8.00	2.34	6783	1987	6.06	1.78	11905	3488	7.87	2.31	400 3- / 440 3-	20.00	44.09
CAJ4517Z-GZ	25.95	1.59	CSR	F	7246	2123	5.89	1.73	13625	3992	8.61	2.52	7275	2132	6.73	1.97	12378	3627	8.49	2.49	208 - 220 1-	22.90	50.49
TAJ4517Z-KZ	25.95	1.59	TRI	F	7246	2123	5.95	1.74	13625	3992	8.80	2.58	7275	2132	6.78	1.99	12378	3627	8.66	2.54	220 3- / 220 3-	20.80	45.86
TAJ4519Z-TZ	34.45	2.11	TRI	F	8753	2565	5.29	1.55	16634	4874	7.76	2.27	8775	2571	6.08	1.78	15006	4397	7.63	2.24	400 3- / 440 3-	21.10	46.52
TAJ4519Z-KZ	34.45	2.11	TRI	F	8743	2562	5.33	1.56	16657	4881	7.86	2.30	8689	2546	6.04	1.77	14999	4395	7.66	2.24	220 3- / 220 3-	21.50	47.40
CAJ4519Z-FZ	34.5	2.12	CSR	F	8818	2584	5.17	1.51	17020	4987	7.78	2.28	8896	2607	5.91	1.73	15403	4513	7.64	2.24	220 - 240 1-	22.30	49.16
CAJ4519Z-GZ	34.5	2.12	CSR	F	9573	2805	5.76	1.69	17728	5194	8.24	2.41	9608	2815	6.57	1.93	16159	4735	8.18	2.40	208 - 220 1-	22.90	50.49
TAJ4519Z-KZ	34.45	2.11	TRI	F	8584	2515	4.99	1.46	15964	4677	7.35	2.15	8971	2629	5.90	1.73	14454	4235	7.13	2.09	220 3- / 220 3-	21.50	47.40
CAJ4519Z-FZ	34.5	2.12	CSR	F	8680	2543	4.85	1.42	16337	4787	7.29	2.14	9205	2697	5.77	1.69	14867	4356	7.12	2.09	220 - 240 1-	22.30	49.16
CAJ4519Z-GZ	34.5	2.12	CSR	F	9428	2762	5.42	1.59	17179	5033	7.81	2.29	9914	2905	6.38	1.87	15705	4602	7.70	2.26	208 - 220 1-	22.90	50.49





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480Z-FZ	15.2	0.93	CSR	F	3715	1088	4.87	1.43	7192	2107	7.48	2.19	3899	1142	5.73	1.68	6486	1900	7.27	2.13	220 - 240 1-	20.10	44.31
TAJ9480Z-TZ	15.2	0.93	TRI	F	3802	1114	4.96	1.45	7415	2173	7.71	2.26	3974	1164	5.83	1.71	6666	1953	7.46	2.19	400 3- / 440 3-	19.80	43.65
CAJ9480Z-GZ	15.2	0.93	CSR	F	4020	1178	5.30	1.55	7562	2216	7.60	2.23	4198	1230	6.16	1.80	6819	1998	7.43	2.18	208 - 220 1-	20.50	45.19
CAJ9480Z-XA	15.2	0.93	CSR	F	4020	1178	5.30	1.55	7562	2216	7.60	2.23	4198	1230	6.16	1.80	6819	1998	7.43	2.18	100 1- / 115 1-	20.70	45.64
CAJ9510Z-GZ	18.3	1.12	CSR	F	4710	1380	4.94	1.45	8933	2617	7.38	2.16	4912	1439	5.81	1.70	8036	2355	7.16	2.10	208 - 220 1-	23.00	50.71
CAJ9510Z-FZ	18.3	1.12	CSR	F	4683	1372	5.01	1.47	9005	2638	7.58	2.22	4893	1434	5.89	1.73	8110	2376	7.36	2.16	220 - 240 1-	21.40	47.18
TAJ9510Z-TZ	18.3	1.12	TRI	F	4723	1384	4.90	1.44	9010	2640	7.39	2.17	4917	1441	5.76	1.69	8096	2372	7.16	2.10	400 3- / 440 3-	20.00	44.09
CAJ9510Z-XA	18.3	1.12	CSR	F	4988	1461	5.05	1.48	9165	2685	7.18	2.10	5216	1528	5.95	1.74	8331	2441	7.06	2.07	100 1- / 115 1-	23.00	50.71
CAJ9513Z-XA	24.2	1.49	CSR	F	5552	1627	4.91	1.44	11183	3277	7.62	2.23	5860	1717	5.89	1.73	10098	2959	7.46	2.19	100 1- / 115 1-	21.50	47.40
TAJ9513Z-TZ	24.2	1.49	TRI	F	5606	1643	5.02	1.47	11210	3285	7.70	2.26	5911	1732	6.02	1.76	10100	2959	7.51	2.20	400 3- / 440 3-	19.90	43.87
CAJ9513Z-GZ	24.2	1.49	CSR	F	5866	1719	5.20	1.52	11561	3387	7.95	2.33	6185	1812	6.21	1.82	10440	3059	7.78	2.28	208 - 220 1-	22.30	49.16
CAJ9513Z-FZ	24.2	1.49	CSR	F	5826	1707	5.28	1.55	11565	3389	8.06	2.36	6153	1803	6.30	1.85	10449	3062	7.88	2.31	220 - 240 1-	21.50	47.40
CAJ4517Z-FZ	25.95	1.59	CSR	F	6627	1942	5.31	1.56	12706	3723	7.92	2.32	6959	2039	6.30	1.85	11463	3359	7.72	2.26	220 - 240 1-	21.60	47.62
TAJ4517Z-TZ	25.95	1.59	TRI	F	6577	1927	4.97	1.46	12897	3779	7.63	2.24	6929	2030	5.95	1.74	11625	3406	7.45	2.18	400 3- / 440 3-	20.00	44.09
TAJ4517Z-KZ	25.95	1.59	TRI	F	7127	2088	5.67	1.66	13373	3918	8.41	2.46	7432	2178	6.65	1.95	12111	3549	8.20	2.40	220 3- / 220 3-	20.80	45.86
CAJ4517Z-GZ	25.95	1.59	CSR	F	7127	2088	5.62	1.65	13373	3918	8.24	2.41	7432	2178	6.60	1.93	12111	3549	8.05	2.36	208 - 220 1-	22.90	50.49
TAJ4519Z-TZ	34.45	2.11	TRI	F	8613	2524	5.05	1.48	16291	4773	7.41	2.17	8971	2629	5.98	1.75	14659	4295	7.22	2.12	400 3- / 440 3-	21.10	46.52
TAJ4519Z-KZ	34.45	2.11	TRI	F	8599	2520	5.08	1.49	16308	4778	7.50	2.20	8876	2601	5.93	1.74	14647	4292	7.24	2.12	220 3- / 220 3-	21.50	47.40
CAJ4519Z-FZ	34.5	2.12	CSR	F	8677	2542	4.93	1.44	16669	4884	7.42	2.17	9090	2663	5.80	1.70	15046	4408	7.22	2.12	220 - 240 1-	22.30	49.16
CAJ4519Z-GZ	34.5	2.12	CSR	F	9418	2759	5.50	1.61	17415	5103	7.90	2.31	9813	2875	6.44	1.89	15824	4636	7.76	2.27	208 - 220 1-	22.90	50.49





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522Z-XG	39.60	2.43	TRI	F	8539	2502	5.47	1.60	17726	5194	8.89	2.60	9261	2713	6.64	1.95	16150	4732	8.73	2.56	380-420 3-	33.00	72.75
FH4522Z-XN	39.60	2.43	CSR	F	9105	2668	5.22	1.53	18039	5285	8.56	2.51	9655	2829	6.16	1.80	16320	4782	8.28	2.43	200-220 1-	29.00	63.93
FH4522Z-XC	39.60	2.43	CSR	F	9144	2679	5.44	1.59	18116	5308	8.91	2.61	9697	2841	6.41	1.88	16390	4802	8.63	2.53	220 - 240 1-	31.00	68.34
FH4522Z-KZ	39.60	2.43	TRI	F	8445	2474	5.27	1.54	18325	5369	9.28	2.72	8845	2592	6.11	1.79	16230	4755	8.77	2.57	220 3-	27.00	59.52
FH4524Z-XG	43.30	2.66	TRI	F	9247	2709	5.53	1.62	19196	5624	8.82	2.58	10030	2939	6.66	1.95	17489	5124	8.57	2.51	380-420 3-	33.00	72.75
FH4524Z-XC	43.30	2.66	CSR	F	9707	2844	5.39	1.58	19550	5728	8.61	2.52	10471	3068	6.51	1.91	17819	5221	8.44	2.47	220 - 240 1-	29.00	63.93
FH4524Z-KZ	43.30	2.66	TRI	F	9261	2713	5.60	1.64	19776	5794	9.01	2.64	9904	2902	6.66	1.95	17833	5225	8.70	2.55	220 3-	30.00	66.14
FH4524Z-XN	43.30	2.66	CSR	F	9963	2919	5.37	1.57	20065	5879	8.57	2.51	10747	3149	6.48	1.90	18289	5359	8.41	2.46	200-220 1-	29.00	63.93
FH4532Z-XG	50.60	3.11	TRI	F	11972	3508	5.67	1.66	23410	6859	8.90	2.61	12764	3740	6.90	2.02	21307	6243	8.71	2.55	380-420 3-	29.00	63.93
FH4532Z-XC	50.60	3.11	CSR	F	12331	3613	5.52	1.62	24389	7146	9.11	2.67	13039	3820	6.55	1.92	22061	6464	8.82	2.58	220 - 240 1-	32.00	70.55
FH4532Z-KZ	50.60	3.11	TRI	F	12335	3614	5.57	1.63	24773	7258	9.26	2.71	12534	3672	6.30	1.85	21806	6389	8.72	2.55	220 3-	29.00	63.93
FH4532Z-XN	50.60	3.11	CSR	F	12625	3699	5.24	1.54	24969	7316	8.63	2.53	13349	3911	6.21	1.82	22586	6618	8.37	2.45	200-220 1-	30.00	66.14
FH4538Z-XG	63.00	3.87	TRI	F	15498	4541	5.72	1.68	30106	8821	8.88	2.60	16502	4835	6.92	2.03	27318	8004	8.66	2.54	380-420 3-	31.00	68.34
FH4538Z-XC	63.00	3.87	CSR	F	15831	4638	5.74	1.68	30229	8857	8.79	2.58	16671	4885	6.82	2.00	27382	8023	8.57	2.51	220 - 240 1-	32.00	70.55
FH4538Z-KZ	63.00	3.87	TRI	F	16184	4742	5.99	1.76	30934	9064	9.08	2.66	17260	5057	7.15	2.09	28137	8244	8.81	2.58	220 3-	31.00	68.34
FH4538Z-XN	63.00	3.87	CSR	F	16467	4825	5.57	1.63	31444	9213	8.54	2.50	17341	5081	6.62	1.94	28482	8345	8.32	2.44	200-220 1-	30.00	66.14
FH4544Z-XG	68.00	4.17	TRI	F	17715	5190	5.54	1.62	33862	9922	8.40	2.46	18893	5536	6.62	1.94	30801	9025	8.15	2.39	380-420 3-	31.00	68.34
FH4544Z-KZ	68.00	4.17	TRI	F	18192	5330	5.81	1.70	34774	10189	8.80	2.58	19402	5685	6.93	2.03	31630	9268	8.54	2.50	220 3-	31.00	68.34



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522Z-XG	39.60	2.43	TRI	F	8762	2567	5.87	1.72	18593	5448	9.56	2.80	9000	2637	6.81	2.00	16830	4931	9.41	2.76	380-420 3-	33.00	72.75
FH4522Z-XN	39.60	2.43	CSR	F	9335	2735	5.64	1.65	18905	5539	9.25	2.71	9401	2754	6.38	1.87	17018	4986	8.98	2.63	200-220 1-	29.00	63.93
FH4522Z-XC	39.60	2.43	CSR	F	9375	2747	5.87	1.72	18986	5563	9.63	2.82	9441	2766	6.64	1.95	17091	5008	9.35	2.74	220 - 240 1-	31.00	68.34
FH4522Z-KZ	39.60	2.43	TRI	F	8804	2580	5.78	1.69	19552	5729	10.20	2.99	8680	2543	6.36	1.86	17164	5029	9.65	2.83	220 3-	27.00	59.52
FH4524Z-XG	43.30	2.66	TRI	F	9489	2780	5.92	1.73	20135	5900	9.52	2.79	9746	2856	6.82	2.00	18226	5340	9.28	2.72	380-420 3-	33.00	72.75
FH4524Z-XC	43.30	2.66	CSR	F	9939	2912	5.78	1.69	20465	5996	9.26	2.71	10158	2976	6.68	1.96	18539	5432	9.10	2.67	220 - 240 1-	29.00	63.93
FH4524Z-XN	43.30	2.66	CSR	F	10201	2989	5.76	1.69	21005	6154	9.22	2.70	10426	3055	6.65	1.95	19028	5575	9.06	2.65	200-220 1-	29.00	63.93
FH4524Z-KZ	43.30	2.66	TRI	F	10411	3050	6.51	1.91	22091	6473	10.50	3.08	10693	3133	7.50	2.20	19997	5859	10.20	2.99	220 3-	30.00	66.14
FH4532Z-XG	50.60	3.11	TRI	F	12224	3582	6.05	1.77	24473	7171	9.55	2.80	12385	3629	7.05	2.07	22161	6493	9.38	2.75	380-420 3-	29.00	63.93
FH4532Z-XC	50.60	3.11	CSR	F	12654	3708	5.96	1.75	25596	7500	9.86	2.89	12680	3715	6.76	1.98	23015	6743	9.58	2.81	220 - 240 1-	32.00	70.55
FH4532Z-XN	50.60	3.11	CSR	F	12955	3796	5.65	1.66	26205	7678	9.35	2.74	12982	3804	6.41	1.88	23562	6904	9.08	2.66	200-220 1-	30.00	66.14
FH4532Z-KZ	50.60	3.11	TRI	F	12822	3757	6.11	1.79	26388	7732	10.20	2.99	12290	3601	6.57	1.93	23047	6753	9.58	2.81	220 3-	29.00	63.93
FH4538Z-XG	63.00	3.87	TRI	F	16168	4737	6.15	1.80	32137	9416	9.62	2.82	16341	4788	7.13	2.09	29012	8501	9.41	2.76	380-420 3-	31.00	68.34
FH4538Z-KZ	63.00	3.87	TRI	F	16523	4841	6.40	1.88	32278	9457	9.76	2.86	16720	4899	7.32	2.14	29213	8559	9.50	2.78	220 3-	31.00	68.34
FH4538Z-XC	63.00	3.87	CSR	F	16519	4840	6.09	1.78	32301	9464	9.37	2.75	16534	4844	6.95	2.04	29119	8532	9.16	2.68	220 - 240 1-	32.00	70.55
FH4538Z-XN	63.00	3.87	CSR	F	16820	4928	5.96	1.75	32890	9637	9.16	2.68	16835	4933	6.80	1.99	29649	8687	8.96	2.63	200-220 1-	30.00	66.14
FH4544Z-XG	68.00	4.17	TRI	F	18087	5299	5.92	1.73	35333	10353	9.03	2.65	18303	5363	6.77	1.98	31978	9370	8.79	2.58	380-420 3-	31.00	68.34
FH4544Z-KZ	68.00	4.17	TRI	F	18574	5442	6.21	1.82	36285	10632	9.46	2.77	18796	5507	7.10	2.08	32840	9622	9.21	2.70	220 3-	31.00	68.34





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522Z-XG	39.60	2.43	TRI	F	8735	2559	5.85	1.71	18576	5443	9.55	2.80	8978	2631	6.80	1.99	16798	4922	9.39	2.75	380-420 3-	33.00	72.75
FH4522Z-XN	39.60	2.43	CSR	F	9308	2727	5.63	1.65	18892	5535	9.24	2.71	9380	2748	6.37	1.87	16988	4977	8.97	2.63	200-220 1-	29.00	63.93
FH4522Z-XC	39.60	2.43	CSR	F	9348	2739	5.86	1.72	18973	5559	9.62	2.82	9420	2760	6.63	1.94	17061	4999	9.34	2.74	220 - 240 1-	31.00	68.34
FH4522Z-KZ	39.60	2.43	TRI	F	8776	2571	5.77	1.69	19537	5724	10.20	2.99	8658	2537	6.35	1.86	17132	5020	9.63	2.82	220 3-	27.00	59.52
FH4524Z-XG	43.30	2.66	TRI	F	9460	2772	5.90	1.73	20117	5894	9.52	2.79	9723	2849	6.81	2.00	18191	5330	9.26	2.71	380-420 3-	33.00	72.75
FH4524Z-XC	43.30	2.66	CSR	F	9910	2904	5.77	1.69	20449	5992	9.25	2.71	10134	2969	6.67	1.95	18504	5422	9.08	2.66	220 - 240 1-	29.00	63.93
FH4524Z-XN	43.30	2.66	CSR	F	10171	2980	5.74	1.68	20988	6149	9.21	2.70	10401	3047	6.64	1.95	18992	5565	9.05	2.65	200-220 1-	29.00	63.93
FH4524Z-KZ	43.30	2.66	TRI	F	10379	3041	6.49	1.90	22071	6467	10.50	3.08	10667	3125	7.49	2.19	19958	5848	10.20	2.99	220 3-	30.00	66.14
FH4532Z-XG	50.60	3.11	TRI	F	12191	3572	6.04	1.77	24455	7165	9.54	2.80	12358	3621	7.04	2.06	22121	6481	9.37	2.75	380-420 3-	29.00	63.93
FH4532Z-XC	50.60	3.11	CSR	F	12618	3697	5.95	1.74	25577	7494	9.86	2.89	12652	3707	6.75	1.98	22973	6731	9.56	2.80	220 - 240 1-	32.00	70.55
FH4532Z-XN	50.60	3.11	CSR	F	12919	3785	5.64	1.65	26186	7672	9.34	2.74	12953	3795	6.40	1.88	23520	6891	9.06	2.65	200-220 1-	30.00	66.14
FH4532Z-KZ	50.60	3.11	TRI	F	12787	3747	6.09	1.78	26373	7727	10.20	2.99	12263	3593	6.56	1.92	23008	6741	9.57	2.80	220 3-	29.00	63.93
FH4538Z-XG	63.00	3.87	TRI	F	16123	4724	6.14	1.80	32115	9410	9.61	2.82	16305	4777	7.12	2.09	28960	8485	9.39	2.75	380-420 3-	31.00	68.34
FH4538Z-KZ	63.00	3.87	TRI	F	16478	4828	6.39	1.87	32257	9451	9.76	2.86	16684	4888	7.31	2.14	29163	8545	9.48	2.78	220 3-	31.00	68.34
FH4538Z-XC	63.00	3.87	CSR	F	16475	4827	6.08	1.78	32280	9458	9.36	2.74	16499	4834	6.94	2.03	29068	8517	9.15	2.68	220 - 240 1-	32.00	70.55
FH4538Z-XN	63.00	3.87	CSR	F	16776	4915	5.95	1.74	32868	9630	9.16	2.68	16800	4922	6.79	1.99	29598	8672	8.95	2.62	200-220 1-	30.00	66.14
FH4544Z-XG	68.00	4.17	TRI	F	18038	5285	5.91	1.73	35310	10346	9.03	2.65	18263	5351	6.76	1.98	31923	9353	8.78	2.57	380-420 3-	31.00	68.34
FH4544Z-KZ	68.00	4.17	TRI	F	18523	5427	6.19	1.81	36261	10624	9.46	2.77	18755	5495	7.09	2.08	32783	9605	9.19	2.69	220 3-	31.00	68.34

COMPRESSORS - 50Hz



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522Z-XG	39.60	2.43	TRI	F	8559	2508	5.56	1.63	18150	5318	9.07	2.66	9133	2676	6.65	1.95	16367	4796	8.84	2.59	380-420 3-	33.00	72.75
FH4522Z-XN	39.60	2.43	CSR	F	9129	2675	5.34	1.56	18468	5411	8.76	2.57	9546	2797	6.21	1.82	16558	4851	8.43	2.47	200-220 1-	29.00	63.93
FH4522Z-XC	39.60	2.43	CSR	F	9168	2686	5.56	1.63	18547	5434	9.12	2.67	9587	2809	6.46	1.89	16629	4872	8.78	2.57	220 - 240 1-	31.00	68.34
FH4522Z-KZ	39.60	2.43	TRI	F	8552	2506	5.44	1.59	18990	5564	9.63	2.82	8785	2574	6.17	1.81	16619	4869	9.01	2.64	220 3-	27.00	59.52
FH4524Z-XG	43.30	2.66	TRI	F	9269	2716	5.62	1.65	19655	5759	9.02	2.64	9890	2898	6.67	1.95	17724	5193	8.71	2.55	380-420 3-	33.00	72.75
FH4524Z-XC	43.30	2.66	CSR	F	9721	2848	5.49	1.61	19993	5858	8.78	2.57	10319	3023	6.52	1.91	18042	5286	8.55	2.51	220 - 240 1-	29.00	63.93
FH4524Z-XN	43.30	2.66	CSR	F	9977	2923	5.46	1.60	20520	6012	8.74	2.56	10591	3103	6.49	1.90	18517	5425	8.51	2.49	200-220 1-	29.00	63.93
FH4524Z-KZ	43.30	2.66	TRI	F	10170	2980	6.18	1.81	21565	6319	9.92	2.91	10851	3179	7.34	2.15	19446	5698	9.58	2.81	220 3-	30.00	66.14
FH4532Z-XG	50.60	3.11	TRI	F	11973	3508	5.75	1.68	23922	7009	9.07	2.66	12591	3689	6.90	2.02	21575	6321	8.82	2.58	380-420 3-	29.00	63.93
FH4532Z-XC	50.60	3.11	CSR	F	12372	3625	5.64	1.65	24992	7323	9.34	2.74	12880	3774	6.59	1.93	22386	6559	8.98	2.63	220 - 240 1-	32.00	70.55
FH4532Z-XN	50.60	3.11	CSR	F	12667	3711	5.35	1.57	25586	7497	8.85	2.59	13187	3864	6.25	1.83	22919	6715	8.51	2.49	200-220 1-	30.00	66.14
FH4532Z-KZ	50.60	3.11	TRI	F	12485	3658	5.75	1.68	25656	7517	9.59	2.81	12464	3652	6.38	1.87	22337	6545	8.96	2.63	220 3-	29.00	63.93
FH4538Z-XG	63.00	3.87	TRI	F	15830	4638	5.85	1.71	31415	9205	9.13	2.68	16615	4868	6.98	2.05	28247	8276	8.84	2.59	380-420 3-	31.00	68.34
FH4538Z-KZ	63.00	3.87	TRI	F	16187	4743	6.08	1.78	31576	9252	9.27	2.72	17009	4984	7.16	2.10	28465	8340	8.93	2.62	220 3-	31.00	68.34
FH4538Z-XC	63.00	3.87	CSR	F	16185	4742	5.79	1.70	31576	9252	8.90	2.61	16816	4927	6.79	1.99	28351	8307	8.62	2.53	220 - 240 1-	32.00	70.55
FH4538Z-XN	63.00	3.87	CSR	F	16479	4828	5.66	1.66	32151	9420	8.70	2.55	17122	5017	6.64	1.95	28868	8458	8.43	2.47	200-220 1-	30.00	66.14
FH4544Z-XG	68.00	4.17	TRI	F	17719	5192	5.63	1.65	34565	10128	8.57	2.51	18619	5455	6.63	1.94	31159	9130	8.27	2.42	380-420 3-	31.00	68.34
FH4544Z-KZ	68.00	4.17	TRI	F	18196	5331	5.90	1.73	35496	10400	8.98	2.63	19121	5602	6.94	2.03	31998	9375	8.66	2.54	220 3-	31.00	68.34





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546Z	90.20	5.54	TRI	F	17050	4996	5.44	1.59	37006	10843	8.55	2.51	18610	5453	6.92	2.03	33683	9869	8.45	2.48	200 3-	44.00	97.00
TAG4546Z	90.20	5.54	TRI	F	17050	4996	5.27	1.54	37006	10843	8.42	2.47	18610	5453	6.31	1.85	33683	9869	8.16	2.39	400 3-	44.00	97.00
TAG4553Z	100.70	6.18	TRI	F	19395	5683	5.30	1.55	41367	12121	8.19	2.40	21211	6215	6.69	1.96	37760	11064	8.14	2.39	200 3-	45.60	100.53
TAG4553Z	100.70	6.18	TRI	F	19395	5683	5.26	1.54	41367	12121	8.17	2.39	21211	6215	6.32	1.85	37760	11064	7.97	2.34	400 3-	45.60	100.53
TAG4561Z	112.50	6.91	TRI	F	22413	6567	5.37	1.57	46053	13494	8.02	2.35	24235	7101	6.69	1.96	41934	12287	7.96	2.33	200 3-	45.90	101.19
TAG4561Z	112.50	6.91	TRI	F	22413	6567	5.34	1.56	46053	13494	8.04	2.36	24235	7101	6.41	1.88	41934	12287	7.82	2.29	400 3-	46.00	101.41
TAG4568Z	124.40	7.64	TRI	F	27344	8012	5.77	1.69	54785	16052	8.41	2.46	28906	8469	6.96	2.04	49253	14431	8.26	2.42	200 3-	47.20	104.06
TAG4568Z	124.40	7.64	TRI	F	27344	8012	5.72	1.68	54785	16052	8.59	2.52	28906	8469	6.82	2.00	49253	14431	8.33	2.44	400 3-	47.20	104.06
TAG4573Z	134.80	8.28	TRI	F	29101	8527	5.49	1.61	57787	16932	7.97	2.34	31223	9148	6.74	1.97	52463	15372	7.89	2.31	200 3-	47.90	105.60
TAG4573Z	134.80	8.28	TRI	F	29101	8527	5.58	1.63	57787	16932	8.09	2.37	31223	9148	6.61	1.94	52463	15372	7.82	2.29	400 3-	48.00	105.82
TAG4581Z	145.00	8.90	TRI	F	33206	9729	5.40	1.58	62534	18322	7.85	2.30	34848	10210	6.31	1.85	56403	16526	7.56	2.22	200 3-	48.10	106.04
TAG4581Z	145.00	8.90	TRI	F	32749	9595	5.38	1.58	62471	18304	7.87	2.31	34525	10116	6.32	1.85	56501	16555	7.59	2.22	400 3-	48.10	106.04



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546Z	90.20	5.54	TRI	F	17545	5141	5.75	1.68	38940	11409	9.14	2.68	18135	5314	6.99	2.05	35200	10314	9.05	2.65	200 3-	44.00	97.00
TAG4546Z	90.20	5.54	TRI	F	17545	5141	5.66	1.66	38940	11409	9.08	2.66	18135	5314	6.48	1.90	35200	10314	8.83	2.59	400 3-	44.00	97.00
TAG4553Z	100.70	6.18	TRI	F	19906	5832	5.62	1.65	43409	12719	8.77	2.57	20641	6048	6.48	1.90	39376	11537	8.59	2.52	400 3-	45.60	100.53
TAG4553Z	100.70	6.18	TRI	F	19906	5832	5.60	1.64	43409	12719	8.71	2.55	20641	6048	6.79	1.99	39376	11537	8.69	2.55	200 3-	45.60	100.53
TAG4561Z	112.50	6.91	TRI	F	22975	6732	5.71	1.67	48272	14144	8.61	2.52	23555	6902	6.55	1.92	43694	12802	8.40	2.46	400 3-	46.00	101.41
TAG4561Z	112.50	6.91	TRI	F	22975	6732	5.67	1.66	48272	14144	8.53	2.50	23555	6902	6.79	1.99	43694	12802	8.48	2.48	200 3-	45.90	101.19
TAG4568Z	124.40	7.64	TRI	F	28113	8237	6.11	1.79	57714	16910	9.22	2.70	28122	8240	6.97	2.04	51547	15103	8.96	2.63	400 3-	47.20	104.06
TAG4568Z	124.40	7.64	TRI	F	28113	8237	6.13	1.80	57714	16910	8.96	2.63	28122	8240	7.12	2.09	51547	15103	8.82	2.58	200 3-	47.20	104.06
TAG4573Z	134.80	8.28	TRI	F	29702	8703	5.95	1.74	60557	17743	8.68	2.54	30275	8871	6.75	1.98	54675	16020	8.42	2.47	400 3-	48.00	105.82
TAG4573Z	134.80	8.28	TRI	F	29702	8703	5.79	1.70	60557	17743	8.46	2.48	30275	8871	6.85	2.01	54675	16020	8.40	2.46	200 3-	47.90	105.60
TAG4581Z	145.00	8.90	TRI	F	33472	9807	5.75	1.68	65378	19156	8.44	2.47	33499	9815	6.47	1.90	58831	17237	8.18	2.40	400 3-	48.10	106.04
TAG4581Z	145.00	8.90	TRI	F	34034	9972	5.78	1.69	65462	19180	8.43	2.47	33814	9908	6.47	1.90	58716	17204	8.15	2.39	200 3-	48.10	106.04



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546Z	90.20	5.54	TRI	F	17485	5123	5.73	1.68	38896	11397	9.13	2.68	18085	5299	6.98	2.05	35120	10290	9.04	2.65	200 3-	44.00	97.00
TAG4546Z	90.20	5.54	TRI	F	17485	5123	5.64	1.65	38896	11397	9.08	2.66	18085	5299	6.47	1.90	35120	10290	8.81	2.58	400 3-	44.00	97.00
TAG4553Z	100.70	6.18	TRI	F	19839	5813	5.61	1.64	43362	12705	8.77	2.57	20584	6031	6.47	1.90	39287	11511	8.57	2.51	400 3-	45.60	100.53
TAG4553Z	100.70	6.18	TRI	F	19839	5813	5.59	1.64	43362	12705	8.71	2.55	20584	6031	6.78	1.99	39287	11511	8.67	2.54	200 3-	45.60	100.53
TAG4561Z	112.50	6.91	TRI	F	22901	6710	5.69	1.67	48225	14130	8.60	2.52	23494	6884	6.54	1.92	43599	12775	8.39	2.46	400 3-	46.00	101.41
TAG4561Z	112.50	6.91	TRI	F	22901	6710	5.66	1.66	48225	14130	8.52	2.50	23494	6884	6.78	1.99	43599	12775	8.46	2.48	200 3-	45.90	101.19
TAG4568Z	124.40	7.64	TRI	F	28030	8213	6.10	1.79	57667	16896	9.21	2.70	28053	8220	6.96	2.04	51442	15073	8.95	2.62	400 3-	47.20	104.06
TAG4568Z	124.40	7.64	TRI	F	28030	8213	6.12	1.79	57667	16896	8.96	2.63	28053	8220	7.11	2.08	51442	15073	8.81	2.58	200 3-	47.20	104.06
TAG4573Z	134.80	8.28	TRI	F	29613	8677	5.94	1.74	60501	17727	8.67	2.54	30201	8849	6.74	1.97	54561	15986	8.41	2.46	400 3-	48.00	105.82
TAG4573Z	134.80	8.28	TRI	F	29613	8677	5.78	1.69	60501	17727	8.45	2.48	30201	8849	6.84	2.00	54561	15986	8.39	2.46	200 3-	47.90	105.60
TAG4581Z	145.00	8.90	TRI	F	33379	9780	5.74	1.68	65329	19141	8.44	2.47	33421	9792	6.46	1.89	58716	17204	8.17	2.39	400 3-	48.10	106.04
TAG4581Z	145.00	8.90	TRI	F	33942	9945	5.77	1.69	65420	19168	8.43	2.47	33736	9885	6.46	1.89	58606	17172	8.13	2.38	200 3-	48.10	106.04



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546Z	90.20	5.54	TRI	F	17105	5012	5.48	1.61	37923	11111	8.70	2.55	18321	5368	6.84	2.00	34029	9970	8.50	2.49	200 3-	44.00	97.00
TAG4546Z	90.20	5.54	TRI	F	17105	5012	5.37	1.57	37923	11111	8.62	2.53	18321	5368	6.31	1.85	34029	9970	8.27	2.42	400 3-	44.00	97.00
TAG4553Z	100.70	6.18	TRI	F	19426	5692	5.34	1.56	42313	12398	8.34	2.44	20865	6113	6.31	1.85	38094	11162	8.05	2.36	400 3-	45.60	100.53
TAG4553Z	100.70	6.18	TRI	F	19426	5692	5.33	1.56	42313	12398	8.30	2.43	20865	6113	6.63	1.94	38094	11162	8.17	2.39	200 3-	45.60	100.53
TAG4561Z	112.50	6.91	TRI	F	22442	6576	5.42	1.59	47081	13795	8.20	2.40	23838	6985	6.39	1.87	42296	12393	7.89	2.31	400 3-	46.00	101.41
TAG4561Z	112.50	6.91	TRI	F	22442	6576	5.40	1.58	47081	13795	8.13	2.38	23838	6985	6.64	1.95	42296	12393	7.98	2.34	200 3-	45.90	101.19
TAG4568Z	124.40	7.64	TRI	F	27450	8043	5.81	1.70	56220	16472	8.77	2.57	28478	8344	6.81	2.00	49854	14607	8.42	2.47	400 3-	47.20	104.06
TAG4568Z	124.40	7.64	TRI	F	27450	8043	5.84	1.71	56220	16472	8.54	2.50	28478	8344	6.95	2.04	49854	14607	8.30	2.43	200 3-	47.20	104.06
TAG4573Z	134.80	8.28	TRI	F	29071	8518	5.66	1.66	59073	17308	8.26	2.42	30689	8992	6.59	1.93	52939	15511	7.91	2.32	400 3-	48.00	105.82
TAG4573Z	134.80	8.28	TRI	F	29071	8518	5.52	1.62	59073	17308	8.07	2.36	30689	8992	6.70	1.96	52939	15511	7.91	2.32	200 3-	47.90	105.60
TAG4581Z	145.00	8.90	TRI	F	32766	9600	5.47	1.60	63824	18700	8.03	2.35	33974	9954	6.32	1.85	57005	16702	7.68	2.25	400 3-	48.10	106.04
TAG4581Z	145.00	8.90	TRI	F	33293	9755	5.50	1.61	63910	18726	8.02	2.35	34293	10048	6.31	1.85	56908	16674	7.65	2.24	200 3-	48.10	106.04



R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C)								ENI2900 (R-454C)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4480P-FZ	15.20	0.93	CSR	F	3288	963	5.03	1.47	6577	1927	8.02	2.35	3342	979	5.71	1.67	5883	1724	7.73	2.26	220 - 240 1-	19.70	43.43
AJ4480P-TZ	15.20	0.93	TRI	F	3460	1014	5.30	1.55	6784	1988	8.30	2.43	3402	997	5.82	1.71	6004	1759	7.89	2.31	400 3-	19.30	42.55
AJ4510P-FZ	18.30	1.12	CSR	F	4145	1214	5.00	1.47	7933	2324	7.65	2.24	4181	1225	5.70	1.67	7095	2079	7.38	2.16	220 - 240 1-	21.50	47.40
AJ4510P-TZ	18.30	1.12	TRI	F	4400	1289	5.44	1.59	8396	2460	8.21	2.41	4456	1306	6.16	1.80	7518	2203	7.89	2.31	400 3-	19.20	42.33
AJ4513P-TZ	24.20	1.49	TRI	F	4821	1413	5.03	1.47	10180	2983	8.23	2.41	4962	1454	5.80	1.70	9123	2673	7.94	2.33	400 3-	20.50	45.19
AJ4513P-FZ	24.20	1.49	CSR	F	5009	1468	5.15	1.51	10422	3054	8.38	2.46	5129	1503	5.96	1.75	9355	2741	8.14	2.39	220 - 240 1-	21.40	47.18
AJ4517P-FZ	25.95	1.59	CSR	F	5862	1718	5.41	1.59	11676	3421	8.57	2.51	5929	1737	6.17	1.81	10442	3060	8.29	2.43	220 - 240 1-	22.10	48.72
AJ4517P-TZ	25.95	1.59	TRI	F	6134	1797	5.60	1.64	11759	3445	8.55	2.51	6200	1817	6.43	1.88	10525	3084	8.28	2.43	400 3-	19.90	43.87
AJ4517P-KZ	25.95	1.59	TRI	F	6521	1911	6.19	1.81	12520	3668	9.38	2.75	6580	1928	6.96	2.04	11228	3290	9.01	2.64	220 3-	21.10	46.52
AJ4519P-TZ	34.45	2.11	TRI	F	7463	2187	5.13	1.50	14102	4132	7.55	2.21	7452	2183	5.76	1.69	12532	3672	7.25	2.12	400 3-	21.00	46.30
AJ4519P-FZ	34.45	2.11	CSR	F	7553	2213	5.38	1.58	14633	4287	8.12	2.38	7652	2242	6.14	1.80	13112	3842	7.84	2.30	220 - 240 1-	22.20	48.94
AJ4519P-KZ	34.45	2.11	TRI	F	7841	2297	5.46	1.60	15308	4485	8.48	2.48	7873	2307	6.17	1.81	13697	4013	8.15	2.39	220 3-	21.80	48.06



R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A)								ENI2900 (R-455A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4480P-TZ	15.20	0.93	TRI	F	3733	1094	5.19	1.52	7415	2173	8.26	2.42	3772	1105	5.84	1.71	6596	1933	7.88	2.31	400 3- / 440 3-	19.30	42.55
AJ4480P-FZ	15.20	0.93	CSR	F	3753	1100	5.31	1.56	7508	2200	8.38	2.46	3807	1115	6.01	1.76	6677	1956	8.04	2.36	220 - 240 1-	19.70	43.43
AJ4510P-FZ	18.30	1.12	CSR	F	4598	1347	5.18	1.52	9025	2644	8.05	2.36	4611	1351	5.86	1.72	8001	2344	7.73	2.26	220 - 240 1-	21.50	47.40
AJ4510P-TZ	18.30	1.12	TRI	F	4868	1426	5.44	1.59	9337	2736	8.29	2.43	4893	1434	6.16	1.80	8302	2432	7.95	2.33	400 3- / 440 3-	19.20	42.33
AJ4513P-TZ	24.20	1.49	TRI	F	5811	1703	5.48	1.61	11799	3457	8.67	2.54	5827	1707	6.13	1.80	10446	3061	8.25	2.42	400 3- / 440 3-	20.50	45.19
AJ4513P-FZ	24.20	1.49	CSR	F	5832	1709	5.47	1.60	11813	3461	8.60	2.52	5941	1741	6.31	1.85	10549	3091	8.34	2.44	220 - 240 1-	21.40	47.18
AJ4517P-TZ	25.95	1.59	TRI	F	6796	1991	5.79	1.70	12912	3783	8.67	2.54	6891	2019	6.63	1.94	11554	3385	8.37	2.45	400 3- / 440 3-	19.90	43.87
AJ4517P-FZ	25.95	1.59	CSR	F	6544	1917	5.48	1.61	12971	3801	8.62	2.53	6575	1926	6.24	1.83	11550	3384	8.31	2.43	220 - 240 1-	22.10	48.72
AJ4517P-KZ	25.95	1.59	TRI	F	7238	2121	6.21	1.82	13904	4074	9.40	2.75	7301	2139	7.01	2.05	12393	3631	9.01	2.64	220 3- / 220 3-	21.10	46.52
AJ4519P-FZ	34.45	2.11	CSR	F	8278	2425	5.60	1.64	16147	4731	8.32	2.44	8350	2447	6.33	1.85	14407	4221	8.01	2.35	220 - 240 1-	22.20	48.94
AJ4519P-TZ	34.45	2.11	TRI	F	8456	2478	5.33	1.56	16446	4819	8.09	2.37	8546	2504	6.14	1.80	14680	4301	7.83	2.29	400 3- / 440 3-	21.00	46.30
AJ4519P-KZ	34.45	2.11	TRI	F	8722	2556	5.49	1.61	17031	4990	8.50	2.49	8750	2564	6.23	1.83	15141	4436	8.15	2.39	220 3- / 220 3-	21.80	48.06

COMPRESSORS - 50Hz



R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C)								ENI2900 (R-454C)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522P-KZ	39.60	2.43	TRI	F	8888	2604	6.43	1.88	18137	5314	10.50	3.08	8327	2440	6.91	2.02	15722	4607	9.76	2.86	220V 3-	28.10	61.95
FH4522P-XG	39.60	2.43	TRI	F	9278	2718	7.39	2.17	18317	5367	11.10	3.25	8840	2590	7.75	2.27	16008	4690	10.30	3.02	380-420 3-	33.00	72.75
FH4522P-XC	39.60	2.43	CSR	F	9923	2907	7.23	2.12	19045	5580	10.90	3.19	9216	2700	7.44	2.18	16617	4869	10.10	2.96	220 - 240 1-	31.00	68.34
FH4524P-XG	43.30	2.66	TRI	F	10388	3044	7.34	2.15	20150	5904	10.80	3.16	9658	2830	7.59	2.22	17505	5129	10.10	2.96	380-420 3-	33.00	72.75
FH4524P-XC	43.30	2.66	CSR	F	10565	3096	7.18	2.10	20669	6056	10.80	3.16	9972	2922	7.50	2.20	18083	5298	10.20	2.99	220 - 240 1-	29.00	63.93
FH4524P-KZ	43.30	2.66	TRI	F	10824	3171	7.23	2.12	20690	6062	10.70	3.14	10087	2955	7.55	2.21	18109	5306	10.10	2.96	220V 3-	28.10	61.95
FH4532P-XG	50.60	3.11	TRI	F	12109	3548	7.08	2.07	23345	6840	10.70	3.14	11315	3315	7.46	2.19	20342	5960	10.00	2.93	380-420 3-	29.00	63.93
FH4532P-KZ	50.60	3.11	TRI	F	12893	3778	7.04	2.06	24242	7103	10.70	3.14	11859	3475	7.32	2.14	21003	6154	9.88	2.89	220V 3-	28.10	61.95
FH4532P-XC	50.60	3.11	CSR	F	13067	3829	7.44	2.18	24562	7197	11.20	3.28	12079	3539	7.70	2.26	21377	6263	10.40	3.05	220 - 240 1-	32.00	70.55
FH4538P-XC	63.00	3.87	CSR	F	16708	4895	6.86	2.01	30783	9019	10.30	3.02	15061	4413	7.15	2.09	26513	7768	9.65	2.83	220 - 240 1-	32.00	70.55
FH4538P-XG	63.00	3.87	TRI	F	16965	4971	7.36	2.16	30937	9065	10.80	3.16	15515	4546	7.66	2.24	26900	7882	10.10	2.96	380-420 3-	31.00	68.34
FH4538P-KZ	63.00	3.87	TRI	F	17424	5105	7.55	2.21	32280	9458	11.00	3.22	15928	4667	7.76	2.27	27985	8200	10.20	2.99	220V 3-	31.10	68.56
FH4544P-XG	68.00	4.17	TRI	F	18602	5450	6.99	2.05	33537	9826	10.00	2.93	17073	5002	7.36	2.16	29277	8578	9.46	2.77	380-420 3-	31.00	68.34





R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A)								EN12900 (R-455A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522P-KZ	39.60	2.43	TRI	F	9009	2640	5.80	1.70	19444	5697	10.00	2.93	9207	2698	6.81	2.00	17247	5053	9.57	2.80	220V 3-	28.10	61.95
FH4522P-XG	39.60	2.43	TRI	F	9344	2738	6.64	1.95	19545	5727	10.50	3.08	9729	2851	7.62	2.23	17495	5126	10.10	2.96	380-420 3-	33.00	72.75
FH4522P-XC	39.60	2.43	CSR	F	9999	2930	6.51	1.91	20314	5952	10.30	3.02	10160	2977	7.35	2.15	18159	5321	9.90	2.90	220 - 240 1-	31.00	68.34
FH4524P-XG	43.30	2.66	TRI	F	10424	3054	6.52	1.91	21500	6300	10.10	2.96	10713	3139	7.42	2.17	19213	5629	9.65	2.83	380-420 3-	33.00	72.75
FH4524P-KZ	43.30	2.66	TRI	F	10897	3193	6.49	1.90	22052	6461	10.20	2.99	11106	3254	7.42	2.17	19771	5793	9.82	2.88	220V 3-	28.10	61.95
FH4524P-XC	43.30	2.66	CSR	F	10636	3116	6.45	1.89	22052	6461	10.20	2.99	10979	3217	7.39	2.17	19760	5790	9.90	2.90	220 - 240 1-	29.00	63.93
FH4532P-XG	50.60	3.11	TRI	F	12198	3574	6.35	1.86	24914	7300	10.10	2.96	12464	3652	7.34	2.15	22238	6516	9.80	2.87	380-420 3-	29.00	63.93
FH4532P-KZ	50.60	3.11	TRI	F	12994	3807	6.34	1.86	25903	7590	10.20	2.99	13054	3825	7.20	2.11	22977	6732	9.67	2.83	220V 3-	28.10	61.95
FH4532P-XC	50.60	3.11	CSR	F	13148	3852	6.70	1.96	26187	7673	10.60	3.11	13306	3899	7.60	2.23	23357	6844	10.20	2.99	220 - 240 1-	32.00	70.55
FH4538P-KZ	63.00	3.87	TRI	F	16214	4751	6.26	1.83	32132	9415	9.75	2.86	15707	4602	6.95	2.04	28428	8329	9.35	2.74	220V 3-	31.10	68.56
FH4538P-XC	63.00	3.87	CSR	F	16853	4938	6.15	1.80	32925	9647	9.80	2.87	16602	4864	7.05	2.07	29039	8508	9.42	2.76	220 - 240 1-	32.00	70.55
FH4538P-XG	63.00	3.87	TRI	F	17022	4987	6.60	1.93	32957	9656	10.20	2.99	17067	5001	7.53	2.21	29379	8608	9.86	2.89	380-420 3-	31.00	68.34
FH4544P-XG	68.00	4.17	TRI	F	18624	5457	6.23	1.83	35669	10451	9.47	2.77	18755	5495	7.21	2.11	31935	9357	9.20	2.70	380-420 3-	31.00	68.34



R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C)								EN12900 (R-454C)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4546P-TZ	90.20	5.54	TRI	F	14642	4290	5.97	1.75	32346	9477	9.15	2.68	14355	4206	6.29	1.84	28487	8347	8.54	2.50	400V 3-	43.00	94.80
AG4553P-TZ	100.70	6.18	TRI	F	19834	5811	6.50	1.90	39500	11574	9.67	2.83	18806	5510	6.83	2.00	34602	10138	9.07	2.66	400V 3-	45.00	99.21
AG4561P-TZ	112.50	6.91	TRI	F	23657	6932	6.67	1.95	46857	13729	9.64	2.82	22188	6501	6.88	2.02	40697	11924	8.94	2.62	400V 3-	46.00	101.41
AG4568P-TZ	124.40	7.64	TRI	F	28045	8217	7.05	2.07	52602	15412	10.20	2.99	25647	7515	7.34	2.15	45388	13299	9.48	2.78	400V 3-	47.00	103.62
AG4573P-TZ	134.80	8.28	TRI	F	29406	8616	6.85	2.01	56554	16570	9.60	2.81	27480	8052	7.12	2.09	49174	14408	8.94	2.62	400V 3-	49.00	108.03
AG4581P-TZ	145.00	8.90	TRI	F	33804	9905	6.82	2.00	61944	18150	9.41	2.76	31004	9084	6.99	2.05	53734	15744	8.74	2.56	400V 3-	49.00	108.03



R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A)								EN12900 (R-455A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4546P-TZ	90.20	5.54	TRI	F	16323	4783	6.04	1.77	36473	10687	9.20	2.70	16169	4738	6.43	1.88	32245	9448	8.67	2.54	400V 3-	43.00	94.80
AG4553P-TZ	100.70	6.18	TRI	F	20705	6067	6.50	1.90	43426	12724	10.00	2.93	20213	5922	6.86	2.01	38324	11229	9.34	2.74	400V 3-	45.00	99.21
AG4561P-TZ	112.50	6.91	TRI	F	26368	7726	6.71	1.97	52585	15407	9.79	2.87	25114	7358	7.00	2.05	46029	13486	9.15	2.68	400V 3-	46.00	101.41
AG4568P-TZ	124.40	7.64	TRI	F	28972	8489	6.78	1.99	56786	16638	9.55	2.80	27343	8011	7.13	2.09	49571	14524	8.97	2.63	400V 3-	47.00	103.62
AG4573P-TZ	134.80	8.28	TRI	F	32619	9557	6.90	2.02	61923	18143	9.58	2.81	30842	9037	7.24	2.12	54280	15904	9.01	2.64	400V 3-	49.00	108.03
AG4581P-TZ	145.00	8.90	TRI	F	37306	10931	6.84	2.00	69746	20436	9.44	2.77	34706	10169	7.12	2.09	60797	17814	8.86	2.60	400V 3-	49.00	108.03



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								EN12900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480X	15.20	0.93	CSR	F	2249	659	5.17	1.51	4603	1349	8.06	2.36	2065	605	5.17	1.51	3975	1165	7.41	2.17	220 - 240 1-	20.10	44.31
TAJ9480X	15.20	0.93	TRI	F	2353	689	5.71	1.67	4804	1408	8.96	2.63	2097	614	5.72	1.68	4104	1202	8.18	2.40	400 3-	19.80	43.65
CAJ9510X	18.30	1.12	CSR	F	2919	855	5.45	1.60	5666	1660	8.02	2.35	2574	754	5.45	1.60	4848	1420	7.43	2.18	220 - 240 1-	21.40	47.18
TAJ9510X	18.30	1.12	TRI	F	3061	897	6.27	1.84	5935	1739	9.30	2.72	2698	791	6.24	1.83	5056	1481	8.53	2.50	400 3-	20.00	44.09
TAJ9513X	24.20	1.49	TRI	F	3717	1089	5.74	1.68	7502	2198	8.60	2.52	3360	984	5.94	1.74	6421	1881	8.00	2.34	400 3-	19.90	43.87
CAJ9513X	24.20	1.49	CSR	F	3717	1089	5.48	1.61	7502	2198	8.12	2.38	3360	984	5.55	1.63	6421	1881	7.53	2.21	220 - 240 1-	21.50	47.40
CAJ4517X	25.95	1.59	CSR	F	4254	1246	5.85	1.71	8415	2466	8.49	2.49	3794	1112	5.85	1.71	7188	2106	7.86	2.30	220 - 240 1-	21.60	47.62
TAJ4517X	25.95	1.59	TRI	F	4285	1256	7.06	2.07	8555	2507	10.60	3.11	3787	1110	7.05	2.07	7298	2138	9.78	2.87	400 3-	20.00	44.09
CAJ4519X	34.50	2.12	CSR	F	5627	1649	5.93	1.74	11162	3270	8.99	2.63	4884	1431	5.76	1.69	9466	2774	8.19	2.40	220 - 240 1-	22.20	48.94
TAJ4519X	34.45	2.11	TRI	F	5978	1752	6.49	1.90	11319	3316	9.12	2.67	5283	1548	6.56	1.92	9699	2842	8.48	2.48	400 3-	20.50	45.19





R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480X	15.20	0.93	CSR	F	2093	613	4.54	1.33	4372	1281	7.20	2.11	2213	648	5.20	1.52	4024	1179	7.06	2.07	220 - 240 1-	20.10	44.31
TAJ9480X	15.20	0.93	TRI	F	2190	642	5.01	1.47	4562	1337	8.00	2.34	2248	659	5.74	1.68	4154	1217	7.79	2.28	400 3-	19.80	43.65
CAJ9510X	18.30	1.12	CSR	F	2718	796	4.79	1.40	5383	1577	7.17	2.10	2759	808	5.48	1.61	4908	1438	7.08	2.07	220 - 240 1-	21.40	47.18
TAJ9510X	18.30	1.12	TRI	F	2850	835	5.51	1.61	5638	1652	8.31	2.43	2892	847	6.27	1.84	5118	1500	8.13	2.38	400 3-	20.00	44.09
TAJ9513X	24.20	1.49	TRI	F	3459	1013	5.04	1.48	7126	2088	7.68	2.25	3601	1055	5.97	1.75	6500	1905	7.62	2.23	400 3-	19.90	43.87
CAJ9513X	24.20	1.49	CSR	F	3459	1013	4.81	1.41	7126	2088	7.25	2.12	3601	1055	5.58	1.63	6500	1905	7.17	2.10	220 - 240 1-	21.50	47.40
CAJ4517X	25.95	1.59	CSR	F	3959	1160	5.14	1.51	7994	2342	7.58	2.22	4065	1191	5.88	1.72	7277	2132	7.48	2.19	220 - 240 1-	21.60	47.62
TAJ4517X	25.95	1.59	TRI	F	3988	1168	6.20	1.82	8127	2381	9.48	2.78	4059	1189	7.08	2.07	7388	2165	9.32	2.73	400 3-	20.00	44.09
CAJ4519X	34.50	2.12	CSR	F	5223	1530	5.19	1.52	10611	3109	8.04	2.36	5223	1530	5.78	1.69	9586	2809	7.80	2.29	220 - 240 1-	22.20	48.94
TAJ4519X	34.45	2.11	TRI	F	5565	1631	5.70	1.67	10753	3151	8.14	2.39	5662	1659	6.59	1.93	9818	2877	8.08	2.37	400 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480X	15.20	0.93	CSR	F	3718	1089	4.79	1.40	7042	2063	7.33	2.15	3952	1158	5.71	1.67	6406	1877	7.16	2.10	220 - 240 1-	20.10	44.31
TAJ9480X	15.20	0.93	TRI	F	3800	1113	4.87	1.43	7250	2124	7.53	2.21	4024	1179	5.81	1.70	6576	1927	7.34	2.15	400 3-	19.80	43.65
CAJ9510X	18.30	1.12	CSR	F	4685	1373	4.93	1.44	8815	2583	7.42	2.17	4956	1452	5.87	1.72	8007	2346	7.25	2.12	220 - 240 1-	21.40	47.18
TAJ9510X	18.30	1.12	TRI	F	4723	1384	4.82	1.41	8816	2583	7.23	2.12	4980	1459	5.74	1.68	7989	2341	7.05	2.07	400 3-	20.00	44.09
TAJ9513X	24.20	1.49	TRI	F	5600	1641	4.94	1.45	10962	3212	7.55	2.21	5987	1754	6.02	1.76	9966	2920	7.42	2.17	400 3-	19.90	43.87
CAJ9513X	24.20	1.49	CSR	F	5824	1706	5.20	1.52	11327	3319	7.91	2.32	6229	1825	6.29	1.84	10323	3025	7.79	2.28	220 - 240 1-	21.50	47.40
CAJ4517X	25.95	1.59	CSR	F	6635	1944	5.23	1.53	12447	3647	7.77	2.28	7058	2068	6.29	1.84	11326	3319	7.63	2.24	220 - 240 1-	21.60	47.62
TAJ4517X	25.95	1.59	TRI	F	6573	1926	4.90	1.44	12626	3699	7.49	2.19	7018	2056	5.94	1.74	11480	3364	7.35	2.15	400 3-	20.00	44.09
CAJ4519X	34.50	2.12	CSR	F	8360	2449	4.93	1.44	15609	4573	7.23	2.12	8875	2600	5.96	1.75	14243	4173	7.14	2.09	220 - 240 1-	22.20	48.94
TAJ4519X	34.45	2.11	TRI	F	8611	2523	4.97	1.46	15959	4676	7.28	2.13	9086	2662	5.97	1.75	14480	4243	7.13	2.09	400 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480X	15.20	0.93	CSR	F	3786	1109	5.11	1.50	7353	2154	7.86	2.30	3822	1120	5.85	1.71	6654	1950	7.71	2.26	220 - 240 1-	20.10	44.31
TAJ9480X	15.20	0.93	TRI	F	3876	1136	5.21	1.53	7585	2222	8.10	2.37	3897	1142	5.96	1.75	6842	2005	7.92	2.32	400 3-	19.80	43.65
CAJ9510X	18.30	1.12	CSR	F	4770	1398	5.26	1.54	9206	2697	7.95	2.33	4796	1405	6.01	1.76	8321	2438	7.80	2.29	220 - 240 1-	21.40	47.18
TAJ9510X	18.30	1.12	TRI	F	4812	1410	5.14	1.51	9212	2699	7.75	2.27	4818	1412	5.87	1.72	8306	2434	7.59	2.22	400 3-	20.00	44.09
TAJ9513X	24.20	1.49	TRI	F	5722	1677	5.27	1.54	11469	3360	8.08	2.37	5802	1700	6.14	1.80	10369	3038	7.95	2.33	400 3-	19.90	43.87
CAJ9513X	24.20	1.49	CSR	F	5944	1742	5.54	1.62	11821	3464	8.45	2.48	6040	1770	6.43	1.88	10721	3141	8.35	2.45	220 - 240 1-	21.50	47.40
CAJ4517X	25.95	1.59	CSR	F	6749	1977	5.57	1.63	12986	3805	8.29	2.43	6819	1998	6.42	1.88	11757	3445	8.17	2.39	220 - 240 1-	21.60	47.62
TAJ4517X	25.95	1.59	TRI	F	6709	1966	5.22	1.53	13184	3863	8.00	2.34	6798	1992	6.07	1.78	11926	3494	7.88	2.31	400 3-	20.00	44.09
CAJ4519X	34.50	2.12	CSR	F	8503	2491	5.24	1.54	16237	4757	7.68	2.25	8592	2517	6.09	1.78	14758	4324	7.62	2.23	220 - 240 1-	22.20	48.94
TAJ4519X	34.45	2.11	TRI	F	8775	2571	5.30	1.55	16644	4877	7.76	2.27	8792	2576	6.09	1.78	15031	4404	7.64	2.24	400 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480X	15.20	0.93	CSR	F	3776	1106	5.10	1.49	7348	2153	7.85	2.30	3814	1118	5.85	1.71	6643	1946	7.70	2.26	220 - 240 1-	20.10	44.31
TAJ9480X	15.20	0.93	TRI	F	3866	1133	5.20	1.52	7580	2221	8.10	2.37	3889	1139	5.95	1.74	6830	2001	7.91	2.32	400 3-	19.80	43.65
CAJ9510X	18.30	1.12	CSR	F	4758	1394	5.25	1.54	9200	2696	7.95	2.33	4786	1402	6.00	1.76	8307	2434	7.79	2.28	220 - 240 1-	21.40	47.18
TAJ9510X	18.30	1.12	TRI	F	4800	1406	5.13	1.50	9206	2697	7.75	2.27	4808	1409	5.86	1.72	8292	2430	7.58	2.22	400 3-	20.00	44.09
TAJ9513X	24.20	1.49	TRI	F	5706	1672	5.26	1.54	11460	3358	8.07	2.36	6027	1766	6.42	1.88	10350	3033	7.94	2.33	400 3-	19.90	43.87
CAJ9513X	24.20	1.49	CSR	F	5927	1737	5.53	1.62	11812	3461	8.44	2.47	5790	1696	6.13	1.80	10701	3135	8.33	2.44	220 - 240 1-	21.50	47.40
CAJ4517X	25.95	1.59	CSR	F	6732	1972	5.56	1.63	12977	3802	8.29	2.43	6783	1987	6.06	1.78	11737	3439	8.16	2.39	220 - 240 1-	21.60	47.62
TAJ4517X	25.95	1.59	TRI	F	6690	1960	5.21	1.53	13176	3861	8.00	2.34	6805	1994	6.41	1.88	11905	3488	7.87	2.31	400 3-	20.00	44.09
CAJ4519X	34.50	2.12	CSR	F	8481	2485	5.23	1.53	16227	4755	7.68	2.25	8574	2512	6.08	1.78	14733	4317	7.61	2.23	220 - 240 1-	22.20	48.94
TAJ4519X	34.45	2.11	TRI	F	8753	2565	5.29	1.55	16634	4874	7.76	2.27	8775	2571	6.08	1.78	15006	4397	7.63	2.24	400 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ9480X	15.20	0.93	CSR	F	3715	1088	4.87	1.43	7192	2107	7.48	2.19	3899	1142	5.73	1.68	6486	1900	7.27	2.13	220 - 240 1-	20.10	44.31
TAJ9480X	15.20	0.93	TRI	F	3802	1114	4.96	1.45	7415	2173	7.71	2.26	3974	1164	5.83	1.71	6666	1953	7.46	2.19	400 3-	19.80	43.65
CAJ9510X	18.30	1.12	CSR	F	4683	1372	5.01	1.47	9005	2638	7.58	2.22	4893	1434	5.89	1.73	8110	2376	7.36	2.16	220 - 240 1-	21.40	47.18
TAJ9510X	18.30	1.12	TRI	F	4723	1384	4.90	1.44	9010	2640	7.39	2.17	4917	1441	5.76	1.69	8096	2372	7.16	2.10	400 3-	20.00	44.09
TAJ9513X	24.20	1.49	TRI	F	5606	1643	5.02	1.47	11210	3285	7.70	2.26	5911	1732	6.02	1.76	10100	2959	7.51	2.20	400 3-	19.90	43.87
CAJ9513X	24.20	1.49	CSR	F	5826	1707	5.28	1.55	11565	3389	8.06	2.36	6153	1803	6.30	1.85	10449	3062	7.88	2.31	220 - 240 1-	21.50	47.40
CAJ4517X	25.95	1.59	CSR	F	6627	1942	5.31	1.56	12706	3723	7.92	2.32	6959	2039	6.30	1.85	11463	3359	7.72	2.26	220 - 240 1-	21.60	47.62
TAJ4517X	25.95	1.59	TRI	F	6577	1927	4.97	1.46	12897	3779	7.63	2.24	6929	2030	5.95	1.74	11625	3406	7.45	2.18	400 3-	20.00	44.09
CAJ4519X	34.50	2.12	CSR	F	8351	2447	4.99	1.46	15902	4659	7.34	2.15	8763	2568	5.97	1.75	14399	4219	7.21	2.11	220 - 240 1-	22.20	48.94
TAJ4519X	34.45	2.11	TRI	F	8613	2524	5.05	1.48	16291	4773	7.41	2.17	8971	2629	5.98	1.75	14659	4295	7.22	2.12	400 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	10842	3177	6.53	1.91	24621	7214	10.10	2.96	9106	2668	6.31	1.85	20820	6100	9.34	2.74	400V 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	13911	4076	7.00	2.05	29370	8605	10.10	2.96	12068	3536	6.99	2.05	25020	7331	9.41	2.76	400V 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	15916	4663	7.12	2.09	33197	9727	10.30	3.02	13904	4074	7.13	2.09	28306	8294	9.53	2.79	400V 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	16605	4865	6.92	2.03	35702	10461	10.00	2.93	14473	4241	6.96	2.04	30290	8875	9.28	2.72	400V 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	18888	5534	6.69	1.96	38592	11307	9.35	2.74	16849	4937	6.60	1.93	32963	9658	8.52	2.50	400V 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	20232	5928	6.67	1.95	41469	12150	9.35	2.74	18057	5291	6.58	1.93	35414	10376	8.53	2.50	400V 3-	48.10	106.04





R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	8802	2579	5.18	1.52	21832	6397	8.73	2.56	9447	2768	5.90	1.73	19970	5851	8.43	2.47	400V 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	10750	3150	5.34	1.56	25345	7426	8.77	2.57	11323	3318	6.08	1.78	23122	6775	8.47	2.48	400V 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	12672	3713	5.49	1.61	28726	8417	8.70	2.55	13244	3880	6.23	1.83	26162	7665	8.41	2.46	400V 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	14665	4297	5.66	1.66	32328	9472	8.66	2.54	15202	4454	6.46	1.89	29417	8619	8.40	2.46	400V 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	16785	4918	5.62	1.65	35700	10460	8.43	2.47	17306	5071	6.34	1.86	32461	9511	8.15	2.39	400V 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	18826	5516	5.87	1.72	39392	11542	8.36	2.45	19353	5670	6.61	1.94	35849	10504	8.12	2.38	400V 3-	48.10	106.04



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	17050	4996	5.27	1.54	37006	10843	8.42	2.47	18610	5453	6.31	1.85	33683	9869	8.16	2.39	400V 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	19395	5683	5.26	1.54	41367	12121	8.17	2.39	21211	6215	6.32	1.85	37760	11064	7.97	2.34	400V 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	22413	6567	5.34	1.56	46053	13494	8.04	2.36	24235	7101	6.41	1.88	41934	12287	7.82	2.29	400V 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	27344	8012	5.72	1.68	54785	16052	8.59	2.52	28906	8469	6.82	2.00	49253	14431	8.33	2.44	400V 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	29101	8527	5.58	1.63	57787	16932	8.09	2.37	31223	9148	6.61	1.94	52463	15372	7.82	2.29	400V 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	32749	9595	5.38	1.58	62471	18304	7.87	2.31	34525	10116	6.32	1.85	56501	16555	7.59	2.22	400V 3-	48.10	106.04



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	17545	5141	5.66	1.66	38940	11409	9.08	2.66	18135	5314	6.48	1.90	35200	10314	8.83	2.59	400V 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	19906	5832	5.62	1.65	43409	12719	8.77	2.57	20641	6048	6.48	1.90	39376	11537	8.59	2.52	400V 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	22975	6732	5.71	1.67	48272	14144	8.61	2.52	23555	6902	6.55	1.92	43694	12802	8.40	2.46	400V 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	28113	8237	6.11	1.79	57714	16910	9.22	2.70	28122	8240	6.97	2.04	51547	15103	8.96	2.63	400V 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	29702	8703	5.95	1.74	60557	17743	8.68	2.54	30275	8871	6.75	1.98	54675	16020	8.42	2.47	400V 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	33472	9807	5.75	1.68	65378	19156	8.44	2.47	33499	9815	6.47	1.90	58831	17237	8.18	2.40	400V 3-	48.10	106.04



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	17485	5123	5.64	1.65	38896	11397	9.08	2.66	18085	5299	6.47	1.90	35120	10290	8.81	2.58	400V 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	19839	5813	5.61	1.64	43362	12705	8.77	2.57	20584	6031	6.47	1.90	39287	11511	8.57	2.51	400V 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	22901	6710	5.69	1.67	48225	14130	8.60	2.52	23494	6884	6.54	1.92	43599	12775	8.39	2.46	400V 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	28030	8213	6.10	1.79	57667	16896	9.21	2.70	28053	8220	6.96	2.04	51442	15073	8.95	2.62	400V 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	29613	8677	5.94	1.74	60501	17727	8.67	2.54	30201	8849	6.74	1.97	54561	15986	8.41	2.46	400V 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	33379	9780	5.74	1.68	65329	19141	8.44	2.47	33421	9792	6.46	1.89	58716	17204	8.17	2.39	400V 3-	48.10	106.04



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	17105	5012	5.37	1.57	37923	11111	8.62	2.53	18321	5368	6.31	1.85	34029	9970	8.27	2.42	400V 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	19426	5692	5.34	1.56	42313	12398	8.34	2.44	20865	6113	6.31	1.85	38094	11162	8.05	2.36	400V 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	22442	6576	5.42	1.59	47081	13795	8.20	2.40	23838	6985	6.39	1.87	42296	12393	7.89	2.31	400V 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	27450	8043	5.81	1.70	56220	16472	8.77	2.57	28478	8344	6.81	2.00	49854	14607	8.42	2.47	400V 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	29071	8518	5.66	1.66	59073	17308	8.26	2.42	30689	8992	6.59	1.93	52939	15511	7.91	2.32	400V 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	32766	9600	5.47	1.60	63824	18700	8.03	2.35	33974	9954	6.32	1.85	57005	16702	7.68	2.25	400V 3-	48.10	106.04



R-290

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				ENI2900				Voltage (V)	Weight	
					+7,2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ4513U-FZ	25.95	1.59	CSR	F	11280	3305	9.52	2.79	9682	2837	8.85	2.59	220 - 240 1~	21.90	48.28
CAJ4518U-FZ	34.45	2.11	CSR	F	15431	4521	9.37	2.75	13232	3877	8.62	2.53	220 - 240 1~	34.45	75.95

AIR-CONDITIONER | HEAT PUMP

HBP



R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE				ENI2900				Voltage (V)	Weight	
					+7,2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE5465C-FZ3C	10.33	0.63	CSR	F	4921	1442	8.13	2.38	4823	1413	8.58	2.51	220-240	11.30	24.91
AE5470C-FZ3C	12.01	0.74	CSR/ PSC	F	5706	1672	7.75	2.27	5633	1650	8.20	2.40	220-240	11.50	25.35



R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE				ENI2900				Voltage (V)	Weight	
					+7,2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ5510C-FZ	18.6	1.14	PTCSCR / CSR / PSC	F	6886	2018	7.55	2.21	6739	1975	7.97	2.34	220 - 240 1~	17.70	39.02
AJ5510C-CZ	18.6	1.14	PSC / CSR	F	6940	2033	7.03	2.06	6969	2042	7.58	2.22	220 - 240 1~	17.70	39.02
AJ5512C-FZ	21.75	1.34	PTCSCR / CSR / PSC	F	8717	2554	7.07	2.07	8656	2536	7.52	2.20	220 - 240 1~	18.20	40.12
AJ5513C-FZ	24.2	1.49	PTCSCR / CSR / PSC	F	10023	2937	7.51	2.20	9951	2916	7.99	2.34	220 - 240 1~	19.40	42.77
AJ5515C-CZ	25.95	1.59	PSC,CSR	F	10921	3200	7.43	2.18	10863	3183	7.97	2.34	220 - 240 1~	19.20	42.33
TAJ5515C-TZ	25.95	1.59	TRI	F	11306	3313	7.51	2.20	11292	3309	8.02	2.35	220 - 240 1~	19.30	42.55
AJ5515C-FZ	25.95	1.59	PTCSCR / CSR / PSC	F	11306	3313	7.29	2.14	11292	3309	7.79	2.28	220 - 240 1~	19.20	42.33
AJ5518C-FZ	32.7	2.01	PTCSCR / CSR / PSC	F	14435	4229	7.20	2.11	14391	4217	7.74	2.27	220 - 240 1~	20.20	44.53
TAJ5519C-KZ	34.45	2.11	TRI	F	15058	4412	7.94	2.33	15140	4436	8.54	2.50	220 - 240 1~	21.70	47.84
TAJ5519C-TZ	34.45	2.11	TRI	F	15058	4412	7.24	2.12	15139	4436	7.78	2.28	220 - 240 1~	21.00	46.30
AJ5519C-FZ	34.45	2.11	PTCSCR / CSR / PSC	F	15176	4447	7.27	2.13	15087	4420	7.78	2.28	208 - 230 1~	22.30	49.16



R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AWR5530CGH	54.30	3.33	PSC	F	25200	7385	9.80	2.87	230 1~	29.00	63.93



R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE +7,2°C (+45°F) Capacity		Efficiency		ENI2900 +5°C (+41°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG5546C	90.20	5.54	TRI	F	31562	9245	8.43	2.47	31078	9103	8.98	2.63	400V 3~	42.50	93.70
TAG5553C	100.70	6.18	TRI	F	36642	10733	8.54	2.50	36656	10737	9.12	2.67	220V 3~	45.00	99.21
TAG5553C	100.70	6.18	TRI	F	38332	11228	8.33	2.44	37940	11113	8.91	2.61	400V 3~	43.50	95.90
TAG5561C	112.50	6.91	TRI	F	43651	12786	8.47	2.48	43351	12698	9.12	2.67	400V 3~	44.50	98.10
TAG5568C	124.40	7.64	TRI	F	48352	14163	8.36	2.45	48301	14148	9.05	2.65	400V 3~	46.00	101.41
TAG5573C	134.80	8.28	TRI	F	52999	15524	8.33	2.44	53002	15525	8.98	2.63	400V 3~	46.00	101.41





R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE +7,2°C (+45°F) Capacity		Efficiency		ENI2900 +5°C (+41°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ5510E-FZ	18.60	1.14	PTCSCR / CSR / PSC	F	8345	2445	8.05	2.36	7612	2230	7.85	2.30	220 - 240 1~	18.60	41.01
AJ5510E-XA	18.60	1.14	CSR / PSC	F	8345	2445	7.92	2.32	7612	2230	7.72	2.26	100 1~ / 115 1~	18.60	41.01
AJ5510E-CZ	18.60	1.14	PSC / CSR	F	8345	2445	7.91	2.32	7612	2230	7.70	2.26	208 1~ / 230 1~	18.60	41.01
AJ5510E-GZ	18.60	1.14	PSC / CSR	F	8345	2445	7.90	2.31	7610	2230	7.69	2.25	208 - 220 1~	18.60	41.01
AJ5512E-XA	21.75	1.34	CSR / PSC	F	9466	2774	8.21	2.41	8672	2541	8.13	2.38	100 1~ / 115 1~	21.75	47.95
AJ5512E-FZ	21.75	1.34	PTCSCR / CSR / PSC	F	9924	2908	8.24	2.41	9135	2677	8.11	2.38	220 - 240 1~	21.75	47.95
AJ5512E-CZ	21.75	1.34	CSR / PSC	F	9924	2908	7.91	2.32	9135	2677	7.77	2.28	208 1~ / 230 1~	21.75	47.95
AJ5512E-GZ	21.75	1.34	CSR / PSC	F	9924	2908	7.91	2.32	9135	2677	7.76	2.27	208 - 220 1~	21.75	47.95
AJ5513E-FZ	24.20	1.49	PTCSCR / CSR / PSC	F	10961	3212	8.60	2.52	10124	2966	8.49	2.49	220 - 240 1~	24.20	53.35
AJ5513E-CZ	24.20	1.49	CSR / PSC	F	10961	3212	8.38	2.46	10124	2966	8.27	2.42	208 1~ / 230 1~	24.20	53.35
TAJ5515E-TZ	25.95	1.59	TRI	F	12386	3629	8.60	2.52	11476	3362	8.54	2.50	400 3~ / 440 3~	25.95	57.21
AJ5515E-GZ	25.95	1.59	CSR / PSC	F	12386	3629	8.44	2.47	11476	3362	8.33	2.44	208 - 220 1~	25.95	57.21
AJ5515E-CZ	25.95	1.59	CSR	F	12386	3629	8.43	2.47	11476	3362	8.33	2.44	208 1~ / 230 1~	25.95	57.21
AJ5515E-FZ	25.95	1.59	PTCSCR / CSR / PSC	F	12386	3629	8.40	2.46	11476	3362	8.34	2.44	220 - 240 1~	25.95	57.21
AJ5518E-FZ	32.70	2.01	PTCSCR / CSR / PSC	F	15520	4547	8.00	2.34	14154	4147	7.79	2.28	220 - 240 1~	32.70	72.09
AJ5518E-CZ	32.70	2.01	CSR	F	15565	4561	7.92	2.32	14426	4227	7.83	2.29	208 1~ / 230 1~	32.70	72.09
AJ5518E-GZ	32.70	2.01	CSR / PSC	F	15565	4561	7.92	2.32	14426	4227	7.82	2.29	208 - 220 1~	0.00	0.00
AJ5519E-FZ	34.45	2.11	PTCSCR / CSR / PSC	F	16024	4695	7.72	2.26	14667	4297	7.62	2.23	220 - 240 1~	34.45	75.95
TAJ5519E-TZ	34.45	2.11	TRI	F	16301	4776	8.52	2.50	15088	4421	8.41	2.46	400 3~ / 440 3~	34.45	75.95
AJ5519E-CZ	34.45	2.11	CSR / PSC	F	16301	4776	8.03	2.35	15088	4421	7.99	2.34	208 1~ / 230 1~	34.45	75.95
AJ5519E-GZ	34.45	2.11	CSR / PSC	F	16301	4776	8.02	2.35	15088	4421	7.99	2.34	208 - 220 1~	34.45	75.95



R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AWA5522EGE	39.60	2.43	PSC	F	18340	5375	9.97	2.92	230 1-	27.00	59.52
AWA5530EGH	50.60	3.11	PTCS_CR	F	25200	7384	9.84	2.88	230 1-	29.00	63.93
AWA5532EGH	54.30	3.33	PTCS_CR	F	26800	7859	9.85	2.89	230 1-	28.00	61.73
AWA5535EGH	59.00	3.62	PSC	F	29500	8646	9.90	2.91	230 1-	30.00	66.14
AWQ5515EGE	32.70	2.01	PSC	F	13000	3809	9.30	0.00	230 1-	27.00	59.52
AWQ5515EXC	32.70	2.01	PSC	F	13000	3809	9.30	2.72	220 1-	27.00	59.52
AWQ5522EGE	43.26	2.66	PSC	F	19000	5568	9.84	2.88	230 1-	28.00	61.73
AWQ5522EXC	43.26	2.66	PSC	F	19000	5568	9.84	2.88	220 1-	28.00	61.73
AWR5524EGE	43.26	2.66	PSC	F	20700	6069	9.95	2.92	230 1-	27.00	59.52
AWR5524EXC	43.26	2.66	PSC	F	20700	6065	9.95	0.00	220 1-	27.00	59.52
AWR5528EGH	48.43	2.97	PSC	F	23100	6774	9.80	2.86	230 1-	29.00	63.93
AWR5528EXC	48.43	2.97	PSC	F	23100	6774	9.80	2.86	220 1-	29.00	63.93
AWR5530EGH	50.60	3.11	PSC	F	25200	7384	9.84	0.00	230 1-	29.00	63.93
AWR5530EXC	50.60	3.11	PTCS_CR	F	25200	7385	9.84	2.80	220 1-	27.00	59.52
AWR5532EGH	54.30	3.33	PTCS_CR	F	26800	7852	9.85	0.00	230 1-	29.00	63.93
AWR5532EXC	54.30	3.33	PTCS_CR	F	26800	7852	9.85	2.89	220 1-	28.00	61.73
AWR5535EGH	59.00	3.62	PSC	F	29500	8644	9.90	0.00	230 1-	30.00	66.14
AWR5535EXC	59.00	3.62	PSC	F	29500	8644	9.90	2.90	220 1-	30.00	66.14
AWR5538EXC	63.00	3.87	CSR	F	31500	9232	9.84	2.88	220 1-	30.00	66.14
AWS5522EGE	39.59	2.43	PSC	F	18500	5422	10.39	3.05	230 1-	28.00	61.73
AWS5522EGF	39.60	2.43	TRI	F	18340	5375	9.91	2.90	400 3~	28.00	61.73
AWS5530EGF	50.60	3.11	TRI	F	24200	7092	10.23	3.00	400 3~	29.00	63.93
AWS5535EGF	59.00	3.62	TRI	F	29200	8558	10.07	2.95	400 3~	30.00	66.14
AWS5538EGF	63.00	3.87	TRI	F	31200	9136	10.00	2.93	400 3~	30.00	66.14
AWZ5542EXG	68.00	4.17	TRI	F	35660	10451	10.20	2.99	380 3~	29.00	63.93
AWZ5542EXN	68.00	4.17	CSR	F	35660	10451	10.20	2.99	220 1-	30.00	66.14



COMPRESSORS - 50Hz



R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE +7,2°C (+45°F)				EN12900 +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG5546E	90.20	5.54	TRI	F	38448	11262	10.00	2.93	34830	10202	9.87	2.89	220V 3~	42.50	93.70
TAG5546E	90.20	5.54	TRI	F	38448	11262	9.59	2.81	34830	10202	9.53	2.79	400V 3~	42.50	93.70
TAG5553E	100.70	6.18	TRI	F	44191	12944	10.04	2.94	40118	11751	9.90	2.90	220V 3~	43.50	95.90
TAG5553E	100.70	6.18	TRI	F	44191	12944	9.87	2.89	40118	11751	9.76	2.86	400V 3~	43.50	95.90
AG5553E	100.70	6.18	CSR,PSC	F	44191	12944	8.81	2.58	40118	11751	8.71	2.55	208V 1~	43.50	95.90
TAG5561E	112.50	6.91	TRI	F	44191	12944	10.04	2.94	40118	11751	9.90	2.90	220V 3~	44.50	98.10
TAG5561E	112.50	6.91	TRI	F	44191	12944	9.87	2.89	40118	11751	9.76	2.86	400V 3~	44.50	98.10
AG5561E	112.50	6.91	CSR,PSC	F	50793	14878	9.12	2.67	46311	13565	9.01	2.64	208V 1~	44.50	98.10
TAG5568E	124.40	7.64	TRI	F	51896	15201	9.76	2.86	56980	16690	9.87	2.89	220V 3~	46.00	101.41
TAG5568E	124.40	7.64	TRI	F	56980	16690	9.80	2.87	51896	15201	9.73	2.85	400V 3~	46.00	101.41
TAG5573E	134.80	8.28	TRI	F	60909	17841	9.12	2.67	55385	16223	9.15	2.68	220V 3~	46.00	101.41
TAG5573E	134.80	8.28	TRI	F	60909	17841	9.12	2.67	55385	16223	8.98	2.63	400V 3~	46.00	101.41





R-134a

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RGA5454YXD	11.52	0.71	CSR	F	4450	1304	10.25	3.00	200	10.40	22.93
RGA5454YXD	11.52	0.71	PSC	F	4450	1304	10.25	3.00	200	10.40	22.93
RGA5454YXA	11.52	0.71	CSR	F	4450	1304	10.18	2.98	100	10.30	22.71
RGA5454YXA	11.52	0.71	PSC	F	4450	1304	10.18	2.98	100	10.30	22.71
RGA5470YXA	14.25	0.87	CSR	F	5550	1626	10.97	3.21	100	10.70	23.59
RGA5470YXA	14.25	0.87	PSC	F	5550	1626	10.97	3.21	100	10.70	23.59
RGA5470YXD	14.25	0.87	CSR	F	5550	1626	10.93	3.20	200	10.70	23.59
RGA5470YXD	14.25	0.87	PSC	F	5550	1626	10.93	3.20	200	10.70	23.59
RGA5485YXD	18.07	1.11	CSR	F	7050	2066	10.71	3.14	200	11.40	25.13
RGA5485YXD	18.07	1.11	PSC	F	7050	2066	10.71	3.14	200	11.40	25.13



R-410A

HBP - High Back Pressure

Model Reference	Displacement		(RPM)	Cooling Capacity (ASHRAE)		Efficiency (ASHRAE) (EER /COP)		Weight	
	cm³	in³		Btu/h	W	Btu/h	W/W	kg	lb
VR5485B-MF5H	8.55	0.52	1800 – 5100	4099 - 13321	1201 - 3904	10.16 - 10.33	2.98 - 3.03	10.30	22.71
VR5494B-MF5H	9.52	0.58	1800 – 5100	4720 - 14862	1383 - 4356	10.30 - 10.35	3.02 - 3.03	10.20	22.49
VR5510B-MF5H	10.23	0.63	1800 – 5100	5131 - 15702	1504 - 4602	10.10 - 9.75	2.96 - 2.86	10.20	22.49

COMPRESSORS - 50Hz



R-410A

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RGA5453BXC	5.41	0.33	CSR	F	4250	1245	8.50	2.49	220-240	9.80	21.61
RGA5453BXC	5.41	0.33	PSC	F	4250	1245	8.50	2.49	220-240	9.80	21.61
RGA5471BXC	7.12	0.44	CSR	F	5750	1685	9.21	2.70	220-240	10.54	23.24
RGA5471BXC	7.12	0.44	PSC	F	5750	1685	9.21	2.70	220-240	10.54	23.24
RGA5485BXC	8.55	0.52	CSR	F	6900	2022	9.52	2.79	220-240	10.20	22.49
RGA5485BXC	8.55	0.52	PSC	F	6900	2022	9.52	2.79	220-240	10.20	22.49
RGA5494BXC	9.52	0.58	CSR	F	7550	2212	8.68	2.54	220-240	10.30	22.71
RGA5494BXC	9.52	0.58	PSC	F	7550	2212	8.68	2.54	220-240	10.30	22.71
RGA5510BXC	10.23	0.63	CSR	F	8333	2442	9.11	2.67	220-240	10.40	22.93
RGA5512BXC	11.74	0.72	CSR	F	9600	2813	8.89	2.60	220-240	10.70	23.59
RGA8510BXC	10.23	0.63	CSR	F	10000	2930	11.98	3.51	220-240	10.40	22.93



R-410A

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HGA5453BXC	5.41	0.33	CSR / PSC	F	4250	1245	8.50	2.49	220-240	10.50	23.15
HGA5471BXC	7.12	0.44	CSR / PSC	F	5750	1685	9.21	2.70	220-240	9.90	21.83
HGA5479BXC	7.95	0.49	CSR / PSC	F	6000	1758	8.96	2.63	220-240	10.90	24.03
HGA5510BXC	10.23	0.63	CSR	F	8333	2442	9.11	2.67	220-240	10.40	22.93
HGA5512BXC	11.74	0.72	CSR / PTCCSR	F	9600	2813	8.89	2.60	220-240	11.17	24.63
HGA8510BXC	10.23	0.63	CSR	F	10000	2930	12.24	3.59	220-240	11.20	24.69





R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RGA5467CXA	9.52	0.58	PSC	F	5200	1524	9.81	2.87	100	10.20	22.49
RGA5467CXC	9.52	0.58	PSC	F	5250	1538	10.12	2.97	220-240	10.40	22.93
RGA5472CXC	10.23	0.63	PSC	F	5610	1644	10.00	2.93	220-240	10.00	22.05
RGC5472CXC	10.23	0.63	PSC	F	5610	1644	10.00	2.93	220-240	10.00	22.05
RGA5480CXC	11.52	0.71	PSC	F	6300	1846	9.92	2.91	220-240	11.40	25.13
RGA5485CXC	11.74	0.72	PSC	F	6380	1869	9.97	2.92	220-240	12.30	27.12
RGA5492CXC	12.74	0.78	PSC	F	6800	1992	9.80	2.87	220-240	12.50	27.56
RGA5492CXA	12.74	0.78	PSC	F	6950	2036	9.33	2.73	100	12.50	27.56
RGA5510CXC	14.25	0.87	PSC	F	7750	2271	9.54	2.80	220-240	12.60	27.78
RGA5512CXA	16.11	0.99	CSR	F	8650	2534	9.08	2.66	200	10.90	24.03
RGA5512CXC	16.11	0.99	PSC	F	8700	2549	9.51	2.79	100	12.70	28.00
RGA5512CXD	16.11	0.99	CSR	F	8700	2549	9.00	2.64	200	10.62	23.41



R-407C R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ENI2900 (R-407C / R-22) +5°C (+41°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RG5450W-FZ4A	7.12	0.44	CSR / PSC	F	3452	1011	9.63	2.82	220-240	9.30	20.50
RG5460W-FZ4A	8.55	0.52	CSR / PSC	F	4052	1187	9.35	2.74	220-240	9.50	20.94
RG5472W-FZ4A	10.23	0.63	CSR / PSC	F	4882	1430	9.80	2.87	220-240	10.20	22.49
RG5480W-FZ4A	11.50	0.71	CSR	F	5473	1603	9.53	2.79	220-240	10.60	23.37
RG5492W-FZ4A	12.74	0.78	CSR / PSC	F	6005	1759	9.25	2.71	220-240	10.20	22.49
RG5510W-FZ4A	14.25	0.87	CSR / PSC	F	6876	2014	9.73	2.85	220-240	10.50	23.15
RG5512W-FZ4A	16.11	0.99	CSR / PSC	F	7576	2219	9.18	2.69	220-240	10.60	23.37



R-407C R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ENI2900 (R-407C / R-22) +5°C (+41°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HG5450W-FZ4A	7.12	0.44	CSR / PSC	F	3452	1011	9.63	2.82	220-240	9.30	20.50
HG5460W-FZ4A	8.55	0.52	CSR / PSC	F	4052	1187	9.35	2.74	220-240	9.50	20.94
HG5472W-FZ4A	10.24	0.63	CSR	F	4882	1430	9.80	2.87	220-240	10.20	22.49
HG5480W-FZ4A	11.52	0.71	CSR / PSC	F	5473	1603	9.53	2.79	220-240	10.60	23.37
HG5492W-FZ4A	12.74	0.78	CSR / PSC	F	6005	1759	9.25	2.71	220-240	10.20	22.49
HG5510W-FZ4A	14.30	0.88	CSR	F	6876	2014	9.73	2.85	220-240	10.50	23.15
HG5512W-FZ4A	16.11	0.99	CSR / PSC	F	7576	2219	9.18	2.69	220-240	10.60	23.37



R-22

HBP (AC)

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RGA5467EXC	9.52	0.58	PSC	F	5470	1603	10.62	3.11	220-240	10.40	22.93
RGA5472EXC	10.23	0.63	PSC	F	5950	1743	10.70	3.14	220-240	10.00	22.05
RGA5480EXC	11.52	0.71	PSC	F	6750	1978	10.51	3.08	220-240	11.40	25.13
RGA5485EXC	11.74	0.72	PSC	F	7050	2066	10.52	3.08	220-240	12.30	27.12
RGA5492EXC	12.74	0.78	PSC	F	7660	2244	10.71	3.14	220-240	12.50	27.56
RGA5510EXC	14.25	0.87	PSC	F	8580	2514	10.30	3.02	220-240	12.60	27.78
RGA5512EKS	16.11	0.99	PSC	N	9300	2725	10.05	2.94	220-240	12.70	28.00
RGA5512EXC	16.11	0.99	PSC	F	9580	2807	10.36	3.04	220-240	12.70	28.00



R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HGA5512EXC	16.11	0.99	PSC	F	9300	2725	10.45	3.06	220-240	12.70	28.00



R-134a R-513A R-1234yf

HBP (AC)

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-134a) +7,2°C (+45°F)				ENI2900 (R-134a) +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
RG5450N-FZ4A	11.52	0.71	CSR/PSC	F	4168	1221	9.97	2.92	3800	1113	9.82	2.88	220-240	11.30	24.91
RG5460N-FZ4A	12.74	0.78	CSR/PSC	F	4738	1388	10.50	3.08	4180	1225	10.00	2.93	220-240	11.60	25.57
RG5480N-FZ4A	16.11	0.99	CSR/PSC	F	5925	1736	10.00	2.93	5350	1568	9.91	2.90	220-240	11.90	26.23



R-134a R-513A R-1234yf

HBP (AC)

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A) +7,2°C (+45°F)				ENI2900 (R-513A) +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
RG5450N-FZ4A	11.52	0.71	CSR/PSC	F	4152	1217	9.76	2.86	3782	1108	9.56	2.80	220-240	11.30	24.91
RG5460N-FZ4A	12.74	0.78	CSR/PSC	F	4723	1384	10.30	3.02	4163	1220	9.77	2.86	220-240	11.60	25.57
RG5480N-FZ4A	16.11	0.99	CSR/PSC	F	5902	1729	9.83	2.88	5324	1560	9.65	2.83	220-240	11.90	26.23



R-134a R-513A R-1234yf

HBP (AC)

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-1234yf) +7,2°C (+45°F)				ENI2900 (R-1234yf) +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
RG5450N-FZ4A	11.52	0.71	CSR/PSC	F	4046	1185	9.82	2.88	3646	1068	9.51	2.79	220-240	11.30	24.91
RG5460N-FZ4A	12.74	0.78	CSR/PSC	F	4603	1349	10.30	3.02	4014	1176	9.72	2.85	220-240	11.60	25.57
RG5480N-FZ4A	16.11	0.99	CSR/PSC	F	5752	1685	9.88	2.89	5134	1504	9.60	2.81	220-240	11.90	26.23



R-134a R-513A R-1234yf

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-134a) +7,2°C (+45°F)				ENI2900 (R-134a) +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
HG5450N-FZ4A	11.52	0.71	CSR / PSC	F	4168	1221	9.97	2.92	3800	1113	9.82	2.88	220-240	11.30	24.91
HG5460N-FZ4A	12.70	0.78	CSR / PSC	F	4704	1378	10.20	2.99	4139	1213	9.73	2.85	220-240	11.60	25.57
HG5480N-FZ4A	16.11	0.99	CSR	F	5925	1736	10.00	2.93	5350	1568	9.91	2.90	220-240	11.90	26.23



R-134a R-513A R-1234yf

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A) +7,2°C (+45°F)				ENI2900 (R-513A) +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
HG5450N-FZ4A	11.52	0.71	CSR / PSC	F	4152	1217	9.76	2.86	3782	1108	9.56	2.80	220-240	11.30	24.91
HG5460N-FZ4A	12.70	0.78	CSR / PSC	F	4690	1374	9.99	2.93	4122	1208	9.48	2.78	220-240	11.60	25.57
HG5480N-FZ4A	16.11	0.99	CSR	F	5902	1729	9.83	2.88	5324	1560	9.65	2.83	220-240	11.90	26.23



R-134a R-513A R-1234yf

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-1234yf) +7,2°C (+45°F)				ENI2900 (R-1234yf) +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
HG5450N-FZ4A	11.52	0.71	CSR / PSC	F	4046	1185	9.82	2.88	3646	1068	9.51	2.79	220-240	11.30	24.91
HG5460N-FZ4A	12.70	0.78	CSR / PSC	F	4570	1339	10.00	2.93	3974	1164	9.43	2.76	220-240	11.60	25.57
HG5480N-FZ4A	16.11	0.99	CSR	F	5752	1685	9.88	2.89	5134	1504	9.60	2.81	220-240	11.90	26.23

HERMETIC COMPRESSORS

60Hz



DOMESTIC APPLICATION

LBP



R-134a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				ENI2900 -25°C (-13°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB1324YTS	2.72	0.17	PTCSIR	N	248	73	3.40	1.00	175	51	2.52	0.74	115	6	14.11
THB1324YS	2.72	0.17	PTCSIR / PTCCSIR	N	250	73	3.42	1.00	-	-	-	-	115	6	14.20
THB1324YS	2.72	0.17	PTCSIR	N	250	73	3.47	1.02	-	-	-	-	115-127	6	14.20
THB1324YS	2.72	0.17	PTCSIR	N	250	73	3.47	1.02	-	-	-	-	220	6	14.20
THK1330YUZ	3.14	0.19	RSIR	N	310	91	3.78	1.11	-	-	-	-	230	7	15.43
THG1330YS	3.14	0.19	RSIR / PTCSIR / PTCCSIR	N	320	94	4.00	1.17	-	-	-	-	115-127	7	16.09
THG1330YS	3.14	0.19	RSIR / PTCSIR / PTCCSIR	N	320	94	4.05	1.19	-	-	-	-	220	7	16.09
THB1330YS	3.40	0.21	PTCCSIR / PTCSIR	N	335	98	3.94	1.15	-	-	-	-	115-127	7	16.02
THB1330YS	3.40	0.21	PTCCSIR / PTCSIR	N	335	98	3.99	1.17	-	-	-	-	220	7	16.02
THG1335YLS	3.40	0.21	PTCSIR	N	367	108	4.09	1.20	267	78	3.13	0.92	115	8	16.75
THG1335YGS	3.40	0.21	PTCSIR	N	369	108	4.16	1.22	267	78	3.18	0.93	220	8	16.53
THG1335YLS	3.40	0.21	PTCSIR / RSIR / CSIR / PTCCSIR	N	370	108	4.11	1.20	-	-	-	-	115	8	16.75
THB1335YTS	3.79	0.23	PTCSIR	N	379	111	3.80	1.11	279	82	2.91	0.85	115	7	15.43
THK1340YXP	4.00	0.25	PTCS_IR	N	420	123	4.04	1.18	-	-	-	-	220	7	14.99
THG1340YS	3.79	0.23	PTCCSIR / PTCSIR / RSIR	N	425	125	4.25	1.25	-	-	-	-	220	8	16.87
THG1340YS	3.79	0.23	PTCSIR	N	425	125	4.25	1.25	-	-	-	-	115-127	8	16.87
THG1340YS	3.79	0.23	PTCCSIR / PTCSIR / RSIR	N	425	125	4.25	1.25	-	-	-	-	115	8	16.87
THB1340YTS	4.23	0.26	PTCSIR	N	436	128	3.93	1.15	317	93	2.99	0.88	115	7	16.09
THG1346YGS	4.23	0.26	PTCSIR / RSIR / PTCCSIR	N	475	139	4.09	1.20	-	-	-	-	220	7	16.09
THG1346YDS	4.23	0.26	PTCCSIR / RSIR	N	475	139	4.20	1.23	-	-	-	-	115-127	8	16.67
THK1352YGS	5.01	0.31	PTCS_IR	N	520	152	4.40	1.29	-	-	-	-	220	8	18.08
THK1352YUZ	5.01	0.31	PTCS_IR	N	520	152	4.40	1.29	-	-	-	-	230	8	18.08
THG1352YLS	5.01	0.31	PTCCSIR / PTCSIR / RSIR	N	525	154	4.10	1.20	-	-	-	-	115	7	15.21
THG1352YDS	5.01	0.31	PTCSIR / PTCCSIR / RSIR	N	525	154	4.23	1.24	-	-	-	-	115-127	7	15.65
THG1352YGS	5.01	0.31	PTCCSIR / RSIR / PTCSIR / CSIR	N	525	154	4.27	1.25	-	-	-	-	220	8	16.75

THG1352YGS	5.01	0.31	CSIR	F	525	154	4.38	1.28	-	-	-	-	220	8	16.75
THG1352YGS	5.01	0.31	PTCSIR	N	526	154	4.28	1.25	381	112	3.29	0.96	220	8	16.75
THG1352YDS	5.01	0.31	PTCSIR / CSIR / PTCCSIR / RSIR	F	540	158	4.37	1.28	-	-	-	-	115-127	7	15.65
THB1355YXA	5.90	0.36	PTCSIR	N	570	167	3.88	1.14	-	-	-	-	115	7	16.46
THG1358YGS	5.60	0.34	RSIR / PTCSIR	N	600	176	4.08	1.20	-	-	-	-	220	8	16.75
THG1358YLS	5.58	0.34	CSIR / PTCCSIR / PTCSIR / RSIR	N	600	176	4.17	1.22	-	-	-	-	115	7	15.43
THG1358YS	5.58	0.34	CSIR / RSIR / PTCCSIR / PTCSIR	N	600	176	4.17	1.22	-	-	-	-	115-127	8	16.75
THG1358YGS	5.60	0.34	RSIR / PTCSIR / PTCCSIR / CSIR	N	600	176	4.20	1.23	-	-	-	-	220	8	16.75
THA1358YXA	5.58	0.34	CSIR	N	600	176	4.51	1.32	-	-	-	-	115	8	16.53
THA1358YXA	5.58	0.34	PTCSCR	N	600	176	4.62	1.35	-	-	-	-	115	8	16.53
THK1365YGS	5.90	0.36	PTCS_IR	N	610	179	4.50	1.32	-	-	-	-	220	9	18.96
THK1365YUZ	5.90	0.36	RSIR	N	610	179	4.50	1.32	-	-	-	-	230	9	18.96
THA1358YXA	5.58	0.34	CSIR	F	610	179	4.59	1.34	-	-	-	-	115	8	16.53
THG1365YLS	5.90	0.36	PTCSIR	N	630	185	4.07	1.19	463	136	3.13	0.92	115	8	16.98
THG1365YLS	5.90	0.36	RSIR / CSIR / PTCCSIR / PTCSIR	N	640	188	4.12	1.21	-	-	-	-	115	8	16.98
THG1365YGS	5.90	0.36	RSIR / PTCSIR	N	640	188	4.24	1.24	-	-	-	-	220	8	17.20
THG1365YGS	5.90	0.36	PTCCSIR / PTCSIR / RSIR / CSIR	N	640	188	4.35	1.27	-	-	-	-	220	8	17.20
THG1365YGS	5.90	0.36	RSIR	N	642	188	4.37	1.28	467	137	3.36	0.98	220	8	17.20
THK1374YXP	6.90	0.42	CSIR	N	680	199	4.20	1.23	-	-	-	-	220	9	19.18
THG1374YMS	6.96	0.43	PTCCSR / PTCSCR	N	730	214	4.65	1.36	-	-	-	-	220	8	16.98
THG1374YDS	6.96	0.43	CSIR / PTCCSIR / PTCSIR / RSIR	F	760	223	4.20	1.23	-	-	-	-	115-127	8	16.98



R-134a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP		kg	lb
TA1325Y-DS3C	2.72	0.17	PTCSCR	N	270	79	5.29	1.55	115-127	7	15.87
TA1330Y-DS1A	3.14	0.19	PTCSIR	N	350	103	4.79	1.40	115-127	7	15.43
TA1330Y-GS1A	3.14	0.19	PTCSIR	N	350	103	4.79	1.40	220	7	14.55
TA1330Y-DS1B	3.14	0.19	PTCSIR	N	350	103	5.26	1.54	115-127	7	15.87
TA1330Y-GS1B	3.14	0.19	PTCSIR	N	350	103	5.26	1.54	220	7	15.87
TA1340Y-DS1W	3.79	0.23	PTCCSIR	N	440	129	4.68	1.37	115-127	7	14.33
TA1340Y-GS1W	3.79	0.23	PTCCSIR	N	440	129	4.68	1.37	220	7	14.33
TA1340Y-GS1A	3.79	0.23	PTCSIR	N	445	130	4.84	1.42	220	7	14.33

TA1340Y-DS1A	3.79	0.23	PTCSIR	N	445	130	4.89	1.43	115-127	7	14.33
TA1340Y-DS1V	3.79	0.23	PTCSIR	F	455	133	4.95	1.45	115-127	7	14.33
TA1340Y-GS1V	3.79	0.23	PTCSIR	F	455	133	4.95	1.45	220	7	14.33
TA1340Y-DS1B	3.79	0.23	PTCSIR	N	455	133	5.35	1.57	115-127	7	16.09
TA1360Y-DS3F	5.41	0.33	PTCSCR	F	600	176	5.80	1.70	115-127	9	19.18
TA1360Y-DS1D	5.41	0.33	PTCSIR	N	605	177	5.17	1.51	115	8	16.75
TA1360Y-DS1W	5.74	0.35	PTCCSIR/ PTCSIR	N	610	179	4.52	1.32	115-127	8	16.53
TA1360Y-GS1W	5.74	0.35	PTCCSIR/ PTCSIR	N	610	179	4.52	1.32	220	8	16.53
TA1360Y-LS1H	5.54	0.34	PTCSIR	N	610	179	5.00	1.47	115-127	8	18.08
TA1360Y-DS1G	5.54	0.34	PTCSIR	N	615	180	4.79	1.40	115-127	8	17.86
TA1360Y-ES1G	5.54	0.34	PTCSIR	N	615	180	4.79	1.40	220	8	17.86
TA1360Y-GS1G	5.54	0.34	PTCSIR	N	615	180	4.79	1.40	220	8	17.86
TA1360Y-GS1H	5.54	0.34	PTCSIR	N	615	180	5.28	1.55	220	7	15.87
TA1360Y-DS1H	5.54	0.34	PTCSIR	N	625	183	5.27	1.54	115-127	7	15.87
TA1360Y-DS1A	5.74	0.35	PTCSIR	N	630	185	5.12	1.50	115-127	8	16.53
TA1360Y-DS1V	5.74	0.35	PTCSIR	N	630	185	5.12	1.50	115-127	8	16.53
TA1360Y-GS1A	5.74	0.35	PTCSIR	N	630	185	5.12	1.50	220	8	16.53
TA1360Y-GS1V	5.74	0.35	PTCSIR	N	630	185	5.12	1.50	220	8	16.53
TA1360Y-DS1B	5.74	0.35	PTCSIR	N	630	185	5.38	1.58	115-127	8	17.20
TA1360Y-GS1B	5.74	0.35	PTCSIR	N	630	185	5.43	1.59	220	8	16.98
TA1365Y-GS1A	6.06	0.37	PTCSIR	N	670	196	4.93	1.44	220	8	16.53
TA1365Y-DS1A	6.06	0.37	PTCSIR	N	680	199	5.19	1.52	115-127	8	17.42
TA1365Y-DS3F	5.74	0.35	PTCSCR	F	690	202	6.00	1.76	115-127	9	19.18
TA1375Y-DS3F	6.33	0.39	PTCSCR	N	745	218	5.64	1.65	115-127	8	17.75
TA1375Y-GS3F	6.33	0.39	PTCSCR	N	745	218	5.75	1.68	220	8	17.68
TA1375Y-GS2B	6.93	0.43	PTCSIR	N	790	231	5.41	1.59	220	8	17.86
TA1375Y-GS2B	6.93	0.43	PTCSCR	N	790	231	5.60	1.64	220	8	17.86
TA1380Y-DS1W	6.93	0.43	CSIR	N	800	234	5.00	1.47	115-127	8	17.42
TA1380Y-GS1W	6.93	0.43	CSIR/ PTCCSIR	N	800	234	5.00	1.47	220	8	17.42
TA1380Y-DS1G	6.93	0.43	PTCSIR	N	820	240	4.95	1.45	115-127	8	17.86
TA1380Y-ES1G	6.93	0.43	PTCSIR	N	820	240	4.98	1.46	220	8	17.86
TA1380Y-DS2E	6.93	0.43	PTCSIR	N	820	240	5.41	1.59	115-127	8	17.42
TA1380Y-GS2E	6.93	0.43	PTCSIR	N	820	240	5.41	1.59	220	8	17.42
TA1380Y-DS1H	6.93	0.43	PTCSIR	N	830	243	5.41	1.59	115-127	8	16.75
TA1380Y-GS1H	6.93	0.43	PTCSIR	N	830	243	5.41	1.59	220	8	16.75

COMPRESSORS - 60Hz



R-600a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP		kg	lb
TA1330M-DS1A	4.57	0.28	PTCSIR	N	310	91	4.77	1.40	115-127	7	14.33
TA1330M-GS1A	4.57	0.28	PTCSIR	N	310	91	4.77	1.40	220	7	14.33
TA1330M-GS2B	4.57	0.28	PTCSIR	N	310	91	5.25	1.54	220	7	15.65
TA1330M-DS2B	4.57	0.28	PTCSIR	N	310	91	5.39	1.58	115-127	7	15.65
TA1330M-GS2B	4.57	0.28	PTCSCR	N	310	91	5.44	1.59	220	7	15.65
TA1330M-DS2B	4.57	0.28	PTCSCR	N	310	91	5.59	1.64	115-127	7	15.65
TA1340M-DS1A	6.33	0.39	PTCSIR	N	410	120	5.13	1.50	115-127	7	15.21
TA1340M-GS1A	6.33	0.39	PTCSIR	N	410	120	5.13	1.50	220	7	15.21
TA1360M-DS1A	8.36	0.51	PTCSIR	N	560	164	5.31	1.56	115-127	8	16.64
TA1360M-GS1G	8.87	0.54	PTCSIR	N	565	166	5.33	1.56	220	8	16.98
TA1360M-GS1A	8.36	0.51	PTCSIR	N	575	168	5.18	1.52	220	8	17.95
TA1360M-LS3J	8.87	0.54	PTCSCR	N	590	173	5.84	1.71	115	8	17.42
TA1360M-AA3J	8.87	0.54	PTCSCR	F	620	182	6.11	1.79	115	9	19.18
TA1370M-GS1A	10.33	0.63	PTCSIR	N	700	205	5.19	1.52	220	8	17.53
TA1370M-DS2B	10.33	0.63	PTCSIR	N	720	211	5.41	1.59	115-127	8	17.53
TA1370M-GS2B	10.33	0.63	PTCSIR	N	720	211	5.45	1.60	220	8	17.53
TA1370M-DS2B	10.33	0.63	PTCSCR	N	720	211	5.56	1.63	115-127	8	17.53
TA1370M-GS2B	10.33	0.63	PTCSCR	N	720	211	5.63	1.65	220	8	17.53
TA1370M-LS3J	10.87	0.67	PTCSCR	N	720	211	5.78	1.69	115	8	17.33
TA1375M-DS2B	10.87	0.67	PTCSIR	N	760	223	5.35	1.57	115-127	8	17.57
TA1375M-DS2B	10.87	0.67	PTCSCR	N	760	223	5.49	1.61	115-127	8	17.57
TA1380M-AA3J	11.69	0.72	PTCSCR	N	790	231	5.70	1.67	115	9	19.18
TA1380M-DS1H	11.69	0.72	PTCSIR	N	800	234	5.39	1.58	115-127	8	17.64
TA1380M-GS1H	11.69	0.72	PTCSIR	N	800	234	5.39	1.58	220	8	17.64
TA1380M-DS1B	11.69	0.72	PTCSIR	N	800	234	5.41	1.59	115-127	8	17.53
TA1380M-GS1B	11.69	0.72	PTCSIR	N	800	234	5.41	1.59	220	8	17.90
TA1380M-ES1G	11.69	0.72	PTCSIR	N	810	237	5.19	1.52	220	8	17.64



LIGHT COMMERCIAL

LBP



R-134a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AZA1332YXA	3.59	0.22	PTCSIR / RSIR	N	330	97	3.63	1.06	115	7	15.21



R-134a

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btuh	W	EER	COP		kg	lb
AE2390Y-DS1A	8.02	0.49	CSIR	F	860	252	4.02	1.18	115-127	10	21.61
AE1390Y-DS1A	8.02	0.49	PTCSIR	F	870	255	4.14	1.21	115-127	10	21.38
AE2410Y-DS1A	9.39	0.58	CSIR	F	950	278	4.01	1.17	115-127	10	22.49
AE2413Y-AA1B	12.01	0.74	CSIR	F	1300	381	4.41	1.29	115	11	23.81



R-134a R-513A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a) -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btuh	W	EER	COP		kg	lb
AE1390Y-AA1A	8.02	0.49	PTCSIR	F	870	255	4.14	1.21	115	10	21.38
AE2410Y-AA1A	9.39	0.58	CSIR	F	950	278	4.01	1.17	115	10	22.49



R-134a R-513A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-513A) -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btuh	W	EER	COP		kg	lb
AE1390Y-AA1A	8.02	0.49	PTCSIR	F	1026	301	4.17	1.22	115	10	21.38
AE2410Y-AA1A	9.39	0.58	CSIR	F	1168	342	4.21	1.23	115	10	22.49



R-401A

LBP - Low Back Pressure

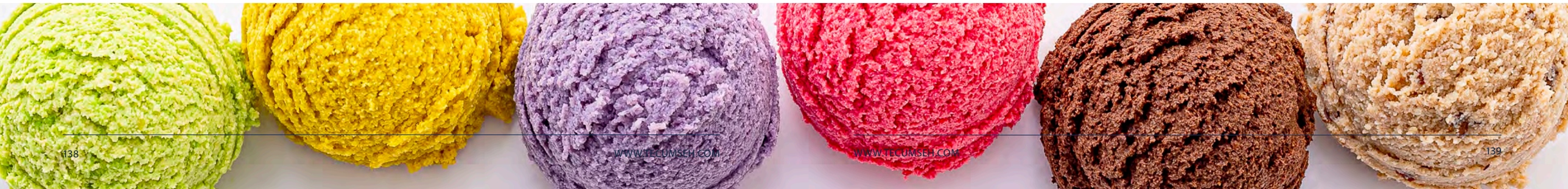
Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btuh	W	EER	COP		kg	lb
AE1380A-GS1B	7.56	0.46	RSIR	N	920	270	4.40	1.29	220	11	23.37



R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btuh	W	EER	COP		kg	lb
TYA2431ZDS	18.80	1.15	CSR	F	3150	923	3.80	1.11	115-127	17	36.38
TYA2431ZES	18.80	1.15	CSR	F	3150	923	4.16	1.22	220	18	38.58
TYA2431ZES	18.80	1.15	CSR	F	3225	945	4.23	1.24	220	18	38.58
TYA2438ZDS	22.33	1.37	CSR	F	3700	1084	4.04	1.18	115-127	18	38.58
TYA2438ZES	22.33	1.37	CSR	F	3810	1116	4.12	1.21	220	17	38.36
TYA2446ZES	26.00	1.60	CSR	F	4775	1399	4.15	1.22	220	19	40.79





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				EN12900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2378Z	4.20	0.26	CSIR	N	807	236	3.83	1.12	419	123	2.83	0.83	115	7	16.09



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A/R-449A) -23.3°C (-10°F)				EN12900 (R-448A/R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2378Z	4.20	0.26	CSIR	N	714	209	3.57	1.05	353	103	2.59	0.76	115	7	16.09



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F)				EN12900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB2378Z	4.20	0.26	CSIR	N	763	224	3.76	1.10	395	116	2.80	0.82	115	7	16.09





R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE2410Z-DS1A	5.02	0.31	CSIR	F	1100	322	4.15	1.22	115-127	10	21.38
AE2413Z-DS1A	6.12	0.38	CSIR	F	1300	381	4.32	1.27	115-127	10	22.49
AE2413Z-GS1A	6.12	0.38	CSIR	F	1300	381	4.36	1.28	220	10	22.49
AE2415Z-DS1A	7.33	0.45	CSIR	F	1600	469	4.44	1.30	115-127	11	23.59
AE2420Z-DS1B	9.33	0.57	CSIR	F	2050	601	4.33	1.27	115-127	11	23.37
AE2425Z-GS3B	12.01	0.74	CSR	F	2650	776	4.84	1.42	220	11	24.47
AE2430Z-AA3C	14.51	0.89	CSR	F	3000	879	4.46	1.31	115	11	25.13
AE2430Z-GS3C	14.51	0.89	CSR	F	3100	908	4.76	1.39	220	12	25.49



R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ARI -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HGA2434ZXA	16.11	0.99	CSR	F	3325	974	3.98	1.17	115	13	28.00





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F) Capacity		ASHRAE (R-404A) -23.3°C (-10°F) Efficiency		EN12900 (R-404A) -35°C (-31°F) Capacity		EN12900 (R-404A) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Z-AA1A	5.00	0.31	CSIR	F	949	278	3.77	1.10	492	144	2.64	0.77	115	10	21.38
AE2410Z-GS1A	5.00	0.31	CSIR	F	1029	301	4.18	1.22	504	148	2.81	0.82	220	10	21.61
AE2415Z-AA1A	7.33	0.45	CSIR	F	1475	432	4.09	1.20	731	214	2.89	0.85	115	11	24.25
AE2415Z-GS1A	7.33	0.45	CSIR	F	1483	435	4.39	1.29	759	222	3.23	0.95	220	11	23.59
AE2420Z-AA1B	9.35	0.57	CSIR	F	1976	579	4.40	1.29	1022	299	3.32	0.97	115	11	25.13
AE2420Z-GS1B	9.35	0.57	CSIR	F	1981	580	4.87	1.43	1025	300	3.55	1.04	220	12	25.35
AE2425Z-AA3C	12.01	0.74	CSR	F	2544	745	4.44	1.30	1346	394	3.38	0.99	115	11	24.69
AE2425Z-GS3C	12.01	0.74	CSR	F	2579	756	4.57	1.34	1388	407	3.57	1.05	220	11	24.69



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F) Capacity		STANDARD TE (R-448A) -23.3°C (-10°F) Efficiency		EN12900 (R-448A) -35°C (-31°F) Capacity		EN12900 (R-448A) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Z-AA1A	5.00	0.31	CSIR	F	878	257	3.39	0.99	450	132	2.47	0.72	115	10	21.38
AE2410Z-GS1A	5.00	0.31	CSIR	F	953	279	3.74	1.10	467	137	2.66	0.78	220	10	21.61
AE2415Z-AA1A	7.33	0.45	CSIR	F	1361	399	3.64	1.07	676	198	2.71	0.79	115	11	24.25
AE2415Z-GS1A	7.33	0.45	CSIR	F	1370	401	3.90	1.14	694	203	2.99	0.88	220	11	23.59
AE2420Z-AA1B	9.35	0.57	CSIR	F	1819	533	3.90	1.14	935	274	3.06	0.90	115	11	25.13
AE2420Z-GS1B	9.35	0.57	CSIR	F	1822	534	4.33	1.27	938	275	3.30	0.97	220	12	25.35
AE2425Z-AA3C	12.01	0.74	CSR	F	2331	683	3.93	1.15	1227	360	3.12	0.91	115	11	24.69
AE2425Z-GS3C	12.01	0.74	CSR	F	2355	690	4.02	1.18	1264	370	3.29	0.96	220	11	24.69



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F) Capacity		STANDARD TE (R-449A) -23.3°C (-10°F) Efficiency		EN12900 (R-449A) -35°C (-31°F) Capacity		EN12900 (R-449A) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Z-AA1A	5.00	0.31	CSIR	F	878	257	3.40	1.00	448	131	2.46	0.72	115	10	21.38
AE2410Z-GS1A	5.00	0.31	CSIR	F	953	279	3.75	1.10	465	136	2.65	0.78	220	10	21.61
AE2415Z-AA1A	7.33	0.45	CSIR	F	1362	399	3.65	1.07	674	197	2.70	0.79	115	11	24.25
AE2415Z-GS1A	7.33	0.45	CSIR	F	1371	402	3.91	1.15	692	203	2.98	0.87	220	11	23.59
AE2420Z-AA1B	9.35	0.57	CSIR	F	1821	534	3.90	1.14	932	273	3.06	0.90	115	11	25.13
AE2420Z-GS1B	9.35	0.57	CSIR	F	1824	534	4.34	1.27	935	274	3.29	0.96	220	12	25.35
AE2425Z-AA3C	12.01	0.74	CSR	F	2333	684	3.94	1.15	1224	359	3.11	0.91	115	11	24.69
AE2425Z-GS3C	12.01	0.74	CSR	F	2357	691	4.03	1.18	1260	369	3.29	0.96	220	11	24.69



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F) Capacity		STANDARD TE (R-452A) -23.3°C (-10°F) Efficiency		EN12900 (R-452A) -35°C (-31°F) Capacity		EN12900 (R-452A) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE2410Z-AA1A	5.00	0.31	CSIR	F	900	264	3.77	1.10	474	139	2.77	0.81	115	10	21.38
AE2410Z-GS1A	5.00	0.31	CSIR	F	977	286	4.17	1.22	459	134	2.58	0.76	220	10	21.61
AE2415Z-AA1A	7.33	0.45	CSIR	F	1398	410	4.06	1.19	709	208	3.14	0.92	115	11	24.25
AE2415Z-GS1A	7.33	0.45	CSIR	F	1407	412	4.36	1.28	688	202	2.83	0.83	220	11	23.59
AE2420Z-AA1B	9.35	0.57	CSIR	F	1870	548	4.36	1.28	955	280	3.22	0.94	115	11	25.13
AE2420Z-GS1B	9.35	0.57	CSIR	F	1874	549	4.84	1.42	959	281	3.46	1.01	220	12	25.35
AE2425Z-AA3C	12.01	0.74	CSR	F	2402	704	4.40	1.29	1258	369	3.28	0.96	115	11	24.69
AE2425Z-GS3C	12.01	0.74	CSR	F	2427	711	4.50	1.32	1296	380	3.47	1.02	220	11	24.69



R-404A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Venti-lation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				AHRI (R-404A) -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK2427Z-NA3B	15.63	0.95	CSR	F	2697	790	4.60	1.35	2081	610	3.51	1.03	208-230	35.00	77.16
AK2430Z-XD3B	17.45	1.07	CSR	F	2930	858	4.41	1.29	2327	682	3.39	0.99	208-230	35.00	77.16
AK2430Z-XA3B	17.45	1.07	CSR	F	3007	881	4.63	1.36	2321	680	3.50	1.03	115.00	35.00	77.16
AK2436Z-AA3B	20.43	1.25	CSR	F	3650	1069	4.68	1.37	2887	846	3.60	1.05	115.00	35.00	77.16
AK2448Z-AA3C	25.68	1.57	CSR	F	4780	1401	4.80	1.41	3493	1023	3.50	1.03	115.00	35.00	77.16
AK2448Z-NA3C	25.68	1.57	CSR	F	4892	1433	4.70	1.38	3587	1051	3.50	1.03	208-230	35.00	77.16



R-404A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Venti-lation Approval Type	ASHRAE (R-452A) -23.3°C (-10°F)				AHRI (R-452A) -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK2427Z-NA3B	15.63	0.95	CSR	F	1811	531	4.40	1.29	1389	407	3.30	0.97	208-230	35.00	77.16
AK2430Z-XD3B	17.45	1.07	CSR	F	2488	729	4.24	1.24	2197	644	3.60	1.05	208-230	35.00	77.16
AK2430Z-XA3B	17.45	1.07	CSR	F	2920	856	4.78	1.40	2257	661	3.62	1.06	115.00	35.00	77.16
AK2436Z-AA3B	20.43	1.25	CSR	F	2975	872	4.50	1.32	2523	739	3.82	1.12	115.00	35.00	77.16
AK2448Z-AA3C	25.68	1.57	CSR	F	4444	1302	4.73	1.39	3403	997	3.67	1.08	115.00	35.00	77.16
AK2448Z-NA3C	25.68	1.57	CSR	F	4454	1305	4.29	1.26	3412	1000	3.30	0.97	208-230	35.00	77.16





R-290

LBP - Low Back Pressure

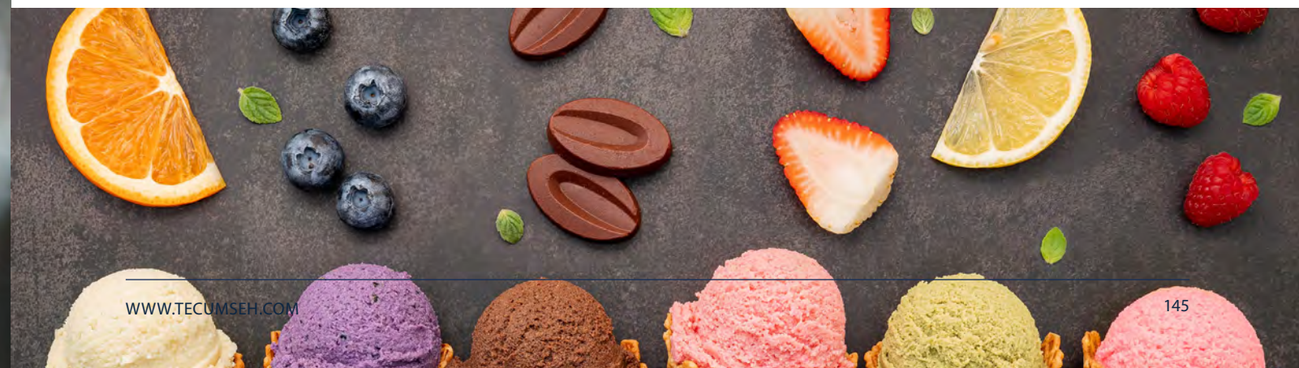
Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btuh	W	EER	COP		kg	lb
TC1370U-GS6B	3.79	0.23	PTCCSIR/PTCSIR	F	740	217	5.17	1.51	220	9	18.74
TC1370U-DS6B	3.79	0.23	PTCCSIR/PTCSIR	F	750	220	5.24	1.54	115-127	9	18.74
TC1370U-DS7C	3.79	0.23	PTCCSR/PTCSCR	F	755	221	5.79	1.70	115-127	9	19.40
TC1410U-DS7C	6.06	0.37	PTCCSR/PTCSCR	F	1130	331	5.82	1.71	115-127	9	19.25
TC1410U-ES7C	6.06	0.37	PTCCSR/PTCSCR	F	1170	343	5.91	1.73	220	9	19.51
TC1413U-DS7C	6.93	0.43	PTCCSR/PTCSCR	F	1330	390	5.78	1.69	115-127	9	19.33
TC1413U-DS7F	6.93	0.43	PTCCSRPTCSCR	F	1350	396	5.72	1.68	115-127	9	19.33
TC1413U-ES7C	6.93	0.43	PTCCSR/PTCSCR	F	1350	396	5.82	1.71	220	9	19.40



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LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btuh	W	EER	COP		kg	lb
AE2410U-GS1A	6.12	0.38	CSIR	F	1000	293	4.33	1.27	220	10	22.49
AE2413U-GS1A	7.33	0.45	CSIR	F	1300	381	4.59	1.34	220	10	22.53
AE2413U-AA1A	7.33	0.45	CSIR	F	1300	381	4.61	1.35	115	10	22.71
AE2415U-AA1A	8.85	0.54	CSIR	F	1550	454	4.33	1.27	115	10	22.41
AE2415U-GS1B	8.85	0.54	CSIR	F	1600	469	4.64	1.36	220	11	24.91
AE2420U-AA1A	10.96	0.67	CSIR	F	2000	586	4.65	1.36	115	11	23.37
AE2420U-GS1B	10.96	0.67	CSIR	F	2000	586	4.88	1.43	220	11	24.47
AE2430U-ES3C	14.51	0.89	CSR	F	2800	820	5.05	1.48	220	11	25.13





R-290

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				AHRI -23.3°C (-10°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK2424U-XA3B	17.45	1.07	CSR	F	2500	733	4.71	1.38	2024	593	1.15	0.34	115.00	35.00	77.16
AK2431U-XN3B	20.43	1.25	CSR	F	3166	928	5.06	1.48	2628	770	1.24	0.36	208-230	35.00	77.16
AK2431U-XA3B	20.43	1.25	CSR	F	3360	984	5.00	1.47	2587	758	1.23	0.36	115.00	35.00	77.16
AK2447U-NA3C	25.68	1.57	CSR	F	4539	1330	5.30	1.55	3690	1081	1.29	0.38	208-230	35.00	77.16
AK2447U-AA3C	25.68	1.57	CSR	F	4651	1363	5.30	1.55	3804	1115	1.29	0.38	115.00	35.00	77.16



LIGHT COMMERCIAL

L/MBP



R-134a

L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				ASHRAE -6.7°C (+20°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TCW390Y-DS8A	7.84	0.48	CSIR	F	910	267	5.11	1.50	2050	601	7.22	2.12	115-127	9	19.18
TCW390Y-GS8E	7.84	0.48	CSIR	F	920	270	4.97	1.46	2050	601	7.09	2.08	220	9	19.18
TCW410Y-ES8E	9.74	0.60	CSIR	F	1060	311	4.63	1.36	2550	747	6.76	1.98	220	9	18.96
TCW410Y-DS8E	9.74	0.60	CSIR	F	1060	311	4.80	1.41	2530	741	6.84	2.00	115-127	9	18.94
TCW413Y-DS8E	10.87	0.67	CSIR	F	1150	337	4.58	1.34	2770	812	6.58	1.93	115-127	9	18.74
TCW413Y-ES8E	10.87	0.67	CSIR	F	1170	343	4.66	1.37	2755	807	6.51	1.91	220	9	18.74



R-134a

L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F)				ASHRAE -6.7°C (+20°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AEW415Y-GS8B	12.48	0.77	CSIR	F	1450	425	4.61	1.35	3250	952	6.33	1.85	220	11	24.91
AEW415Y-DS8B	12.48	0.77	CSIR	F	1475	432	4.58	1.34	3335	977	6.40	1.88	115-127	11	24.91





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L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								ENI2900								Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)				-35°C (-31°F)				-10°C (+14°C)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TCW330U-GS6D	1.83	0.11	CSIR	F	285	84	3.85	1.13	655	192	6.68	1.96	164	48	2.94	0.86	581	170	7.07	2.07	220	7.95	17.53
TCW330U-DS8B	1.83	0.11	CSIR	F	300	88	4.20	1.23	650	190	7.03	2.06	-	-	-	-	-	-	-	-	115-127	8.30	18.30
TCW350U-DS6B	2.72	0.17	CSIR	F	498	146	4.15	1.22	987	289	7.20	2.11	283	83	3.74	1.10	934	274	8.11	2.38	115-127	8.30	18.30
TCW350U-GS1B	2.72	0.17	PTCSIR	F	500	147	4.81	1.41	1050	308	7.50	2.20	-	-	-	-	-	-	-	-	220	8.36	18.43
TCW350U-GS8B	2.72	0.17	CSIR	F	500	147	4.81	1.41	1050	308	7.50	2.20	277	81	3.67	1.08	854	250	7.55	2.21	220	8.36	18.43
TCW350U-DS1B	2.72	0.17	PTCSIR	F	500	147	4.90	1.44	1050	308	7.89	2.31	-	-	-	-	-	-	-	-	115-127	8.30	18.30
TCW360U-DS3H	3.14	0.19	PTCSCR	N	560	164	5.28	1.55	1150	337	7.82	2.29	-	-	-	-	-	-	-	-	115-127	7.40	16.31
TCW360U-GS3H	3.14	0.19	PTCSCR	N	560	164	5.38	1.58	1150	337	7.77	2.28	-	-	-	-	-	-	-	-	220	7.50	16.53
TCW360U-GS8A	3.14	0.19	CSIR	F	570	167	4.89	1.43	1208	354	7.62	2.23	320	94	3.65	1.07	1025	300	7.61	2.23	220	8.30	18.30
TCW360U-DS3H	3.14	0.19	PTCSCR	F	590	173	5.57	1.63	1150	337	7.82	2.29	-	-	-	-	-	-	-	-	115-127	7.40	16.31
TCW360U-GS3H	3.14	0.19	PTCSCR	F	590	173	5.67	1.66	1150	337	7.77	2.28	-	-	-	-	-	-	-	-	220	7.50	16.53
TCW360U-LS6A	3.14	0.19	CSIR	F	600	176	4.76	1.39	1235	362	7.55	2.21	-	-	-	-	-	-	-	-	115	8.27	18.23
TCX380U-DS8B	4.19	0.26	CSIR	F	785	230	5.25	1.54	1620	475	7.83	2.29	-	-	-	-	-	-	-	-	115-127	8.60	18.96
TCW380U-DS6B	4.19	0.26	CSIR	F	800	234	5.21	1.53	1640	481	7.79	2.28	453	133	4.09	1.20	1360	398	7.94	2.33	115-127	8.60	18.96
TCW380U-DS3H	4.19	0.26	PTCSCR	N	810	237	5.44	1.59	1620	475	8.02	2.35	-	-	-	-	-	-	-	-	115-127	8.10	17.86
TCW380U-GS3H	4.19	0.26	PTCSCR	N	810	237	5.51	1.61	1620	475	8.02	2.35	-	-	-	-	-	-	-	-	220	8.10	17.86
TCW380U-DS3H	4.19	0.26	PTCSCR	F	840	246	5.64	1.65	1620	475	8.02	2.35	-	-	-	-	-	-	-	-	115-127	8.10	17.86
TCW380U-GS3H	4.19	0.26	PTCSCR	F	840	246	5.71	1.67	1620	475	8.02	2.35	-	-	-	-	-	-	-	-	220	8.10	17.86
TCW380U-GS8A	4.19	0.26	CSIR	F	845	248	5.12	1.50	1675	491	7.61	2.23	511	150	4.26	1.25	1527	447	8.36	2.45	220	8.36	18.43
TCW390U-DS6E	4.75	0.29	CSIR/ RSIR	F	870	255	5.10	1.49	1800	527	7.76	2.27	-	-	-	-	-	-	-	-	115-127	8.60	18.96
TCW390U-DS6B	4.75	0.29	CSIR	F	870	255	5.30	1.55	1810	530	8.01	2.35	483	142	4.08	1.20	1583	464	8.35	2.45	115-127	8.60	18.96
TCW390U-LS6B	4.75	0.29	CSIR/ RSIR	F	875	256	5.30	1.55	1840	539	7.95	2.33	-	-	-	-	-	-	-	-	115	8.53	18.81
TCW390U-GS8E	4.75	0.29	CSIR	F	880	258	5.09	1.49	1840	539	7.70	2.26	546	160	4.65	1.36	1688	495	8.85	2.59	220	8.60	18.96
TCW410U-DS3H	6.06	0.37	PTCSCR	N	1050	308	5.12	1.50	2220	650	7.60	2.23	-	-	-	-	-	-	-	-	115-127	8.00	17.64
TCW410U-GS3H	6.06	0.37	PTCSCR	N	1050	308	5.12	1.50	2220	650	7.55	2.21	-	-	-	-	-	-	-	-	220	8.30	18.30
TCX410U-DS8B	6.06	0.37	CSIR	F	1125	330	5.24	1.54	2300	674	7.67	2.25	-	-	-	-	-	-	-	-	115-127	8.00	17.64
TCW410U-DS3H	6.06	0.37	PTCSCR	F	1140	334	5.56	1.63	2220	650	7.60	2.23	-	-	-	-	-	-	-	-	115-127	8.00	17.64
TCW410U-GS3H	6.06	0.37	PTCSCR	F	1140	334	5.56	1.63	2220	650	7.55	2.21	-	-	-	-	-	-	-	-	220	8.30	18.30
TCW410U-GS8E	6.06	0.37	CSIR	F	1150	337	5.32	1.56	2320	680	7.64	2.24	648	190	4.35	1.27	2022	592	8.09	2.37	220	8.60	18.96
TCW410U-DS6B	6.06	0.37	CSIR	F	1150	337	5.45	1.60	2330	683	7.90	2.31	638	187	4.20	1.23	2098	615	8.23	2.41	115-127	8.60	18.96
TCW413U-GS8E	6.93	0.43	CSIR	F	1300	381	5.33	1.56	2580	756	7.60	2.23	823	241	3.06	0.90	2408	706	9.61	2.82	220	8.63	19.03
TCW413U-DS8E	6.93	0.43	CSIR	F	1300	381	5.39	1.58	2640	774	7.72	2.26	745	218	4.39	1.29	2290	671	8.03	2.35	115-127	8.60	18.96
TCW413U-DS3H	6.93	0.43	PTCSCR	N	1300	381	5.46	1.60	2640	774	7.90	2.31	-	-	-	-	-	-	-	-	115-127	8.10	17.86
TCX413U-DS1B	6.93	0.43	CSIR	F	1310	384	5.25	1.54	2700	791	7.61	2.23	-	-	-	-	-	-	-	-	115-127	8.60	18.96
TCW413U-DS3H	6.93	0.43	PTCSCR	F	1360	398	5.71	1.67	2640	774	7.90	2.31	-	-	-	-	-	-	-	-	115-127	8.10	17.86
TCW413U-GS3H	6.93	0.43	PTCSCR	F	1360	398	5.79	1.70	2700	791	8.18	2.40	-	-	-	-	-	-	-	-	220	8.39	18.50
TCX415U-DS1B	7.84	0.48	CSIR	F	1470	431	5.17	1.51	3000	879	7.45	2.18	837	245	4.19	1.23	2596	761	7.65	2.24	115-127	8.60	18.96
TCX415U-GS8B	7.84	0.48	CSIR	F	1490	437	5.21	1.53	2970	870	7.33	2.15	891	261	4.35	1.27	2655	778	7.85	2.30	220	8.60	18.96
TCW415U-ES8E	7.84	0.48	CSIR	F	1500	440	4.89	1.43	3000	879	7.14	2.09	-	-	-	-	-	-	-	-	220	8.70	19.18
TCW415U-DS8E	7.84	0.48	CSIR	F	1500	440	5.23	1.53	2940	861	7.33	2.15	-	-	-	-	-	-	-	-	115-127	8.65	19.07
TCW417U-DS3H	8.87	0.54	PTCSCR	F	1750	513	5.47	1.60	3350	982	7.79	2.28	-	-	-	-	-	-	-	-	115-127	8.14	17.95
TCW417U-ES3H	8.87	0.54	PTCSCR	F	1750	513	5.47	1.60	3350	982	7.79	2.28	-	-	-	-	-	-	-	-	220	8.14	17.95



R-290

L/MBP - Low / Medium Back Pressure (INVERTER)

Model Reference	Displacement		(RPM)	Cooling Capacity	
	cm³	in³		Btu/h	W
VTCX360U-MD5C	3.14	0.19	2500 – 4500	432 - 768	127 - 225
VTCX410U-MD5C	6.06	0.37	2500 – 4500	848 - 1410	248 - 413
VTCX415U-MD5C	7.84	0.48	2500 – 4500	1093 - 1826	320 - 535
VTCX419U-ME5C	9.74	0.60	2000 – 4500	1166 - 2241	342 - 657
VTCW424U-ME5C	12.47	0.77	2000 – 4500	1482 - 2961	434 - 868
VTC1424U-MD5C	12.47	0.77	2500 – 4500	1818 - 3126	533 - 916



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L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AEX415U-DS1B	7.33	0.45	CSIR	F	1420	416	4.98	1.46	2790	817	7.34	2.15	115-127	11.00	24.25
AEX417U-DS1B	8.02	0.49	CSIR	F	1540	451	4.89	1.43	3120	914	7.45	2.18	115-127	11.30	24.91
AEX419U-DS1B	9.35	0.57	CSIR	F	1770	519	4.85	1.42	3530	1034	7.26	2.13	115-127	11.20	24.69
AEX419U-GS1B	9.35	0.57	CSIR	F	1790	524	4.94	1.45	-	-	-	-	220	11.20	24.69
AEX424U-DS3C	12.01	0.74	CSR	F	2400	703	5.30	1.55	4650	1362	7.52	2.20	115-127	11.50	25.35
AEX428U-DS3C	13.24	0.81	CSR	F	2550	747	5.20	1.52	5150	1509	7.65	2.24	115-127	11.50	25.35
AEX433U-AA3C	15.09	0.93	CSR	F	2945	863	5.14	1.51	5870	1720	7.48	2.19	115	11.50	25.35
AEX433U-DS3C	15.09	0.93	CSR	F	3010	882	5.27	1.54	5945	1742	7.53	2.21	115-127	11.50	25.35



R-290

L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								ENI2900								Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)				-35°C (-31°F)				-10°C (+14°C)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AEX428U-DS3C	13.24	0.81	CSR	F	2550	747	5.20	1.52	5120	1500	7.59	2.22	1448	424	4.08	1.20	4361	1278	7.74	2.27	115 - 127 1-	11.50	25.35

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L/MBP - Low / Medium Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								Voltage (V)	Weight	
					-23.3°C (-10°F)				-6.7°C (+20°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
ALX430U-DS3A	15.09	0.93	CSR	F	2900	850	5.80	1.70	5300	1553	7.65	2.24	115-127	14	29.76
ALX435U-DS3A	17.71	1.09	CSR	F	3460	1014	5.75	1.68	6040	1770	7.31	2.14	115-127	14	30.20
ALX440U-DS3A	19.95	1.22	CSR	F	3920	1149	5.72	1.68	6800	1992	7.27	2.13	115-127	15	32.41



LIGHT COMMERCIAL

M/HBP



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					-6.7°C (+20°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AZA0340YDS	2.23	0.14	PTCSIR	N	400	117	3.74	1.10	115-127	5	10.80
AZA0340YRS	2.23	0.14	PTCSIR	N	400	117	3.77	1.10	220	5	10.49
AZ0345YS	2.23	0.14	PTCSIR / RSIR	N	445	130	4.28	1.25	115-127	6	13.45
AZA0335YXA	2.23	0.14	RSIR	F	450	132	4.37	1.28	115	6	13.23
AZ0345YS	2.23	0.14	PTCSIR / RSIR	F	470	138	4.39	1.29	220	6	13.45
AZ0345YS	2.23	0.14	PTCSIR / RSIR	F	470	138	4.52	1.32	115-127	6	13.45
AZ0360YS	2.95	0.18	CSIR / PTCSIR / RSIR	N	610	179	4.45	1.30	115-127	6	13.89
AZ0360YS	2.95	0.18	RSIR	N	610	179	4.49	1.32	220	6	13.89
AZ0360YS	2.95	0.18	PTCSIR / RSIR	N	610	179	4.52	1.32	115	6	13.89
AZ0360YS	2.95	0.18	PTCSIR / RSIR	N	610	179	4.66	1.37	220	6	13.89
AZ0360YS	2.95	0.18	CSIR / PTCSIR / RSIR	F	625	183	4.56	1.34	115-127	6	13.89
AZ0360YS	2.95	0.18	CSIR / PTCSIR / RSIR	F	625	183	4.60	1.35	220	6	13.89
AZ0360YS	2.95	0.18	PTCSIR / RSIR	F	625	183	4.63	1.36	115	6	13.89
AZA0370YXA	4.00	0.25	CSIR / RSIR	F	870	255	4.92	1.44	115	7	15.61
AZ0387YS	4.00	0.25	CSIR / RSIR	F	870	255	4.94	1.45	115-127	7	15.71
AZ0387YS	4.00	0.25	CSIR / RSIR	F	870	255	4.94	1.45	220	7	15.71
AZ0387YS	4.00	0.25	RSIR	F	870	255	5.00	1.47	115	7	15.71
AZ0411YS	5.59	0.34	RSIR	F	1175	344	4.64	1.36	115	7	16.31
AZ0411YS	5.59	0.34	CSIR / PTCSIR / RSIR	F	1175	344	4.80	1.41	115-127	7	16.31
AZA0395YXA	5.59	0.34	CSIR / RSIR	F	1175	344	4.96	1.45	115	7	16.31
AZ0411YS	5.59	0.34	CSIR / PTCSIR / RSIR	F	1175	344	5.00	1.47	220	7	16.31
AZA0395YXP	5.59	0.34	CSIR / RSIR	F	1175	344	5.00	1.47	220	8	16.53
AZ0413YS	5.91	0.36	CSIR / RSIR	F	1330	390	4.75	1.39	115-127	8	16.53
AZ0413YS	5.91	0.36	CSIR / RSIR	F	1330	390	4.89	1.43	220	8	16.53



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -6.7°C (+20°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP		kg	lb
THK0347YAA	2.39	0.15	RSIR	F	500	147	5.10	1.49	115	8	17.64
THA0370YXA	3.40	0.21	CSIR / RSIR	F	805	236	5.51	1.61	115	8	16.53
THK0384YAA	4.00	0.25	RSIR	F	930	272	5.89	1.73	115	9	18.74
THA0384YXA	4.00	0.25	RSIR	F	960	281	5.42	1.59	115	8	16.75
THA0410YXA	5.00	0.31	CSIR / RSIR	F	1050	308	5.00	1.47	115	7	16.38
THK0412YAA	5.90	0.36	RSIR	F	1350	396	5.35	1.57	115	9	19.84
THK9414YGS	6.90	0.42	CSIR	F	1500	440	5.77	1.69	220	9	19.18
THK9414YUZ	6.90	0.42	CSIR	F	1500	440	5.77	1.69	230	9	19.18
THA0414YXA	6.96	0.43	RSIR / CSIR	F	1640	481	5.29	1.55	115	7	16.31



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP		kg	lb
THK4420YUZ	5.01	0.31	CSIR	F	2070	607	8.15	2.39	230	8	18.52
THB4422YWZ	5.90	0.36	CSIR	F	2190	642	6.64	1.95	220-230	8	17.20
THK4430YAA	8.21	0.50	CSIR	F	3150	923	6.70	1.96	115	9	19.84
THK4430YGS	8.21	0.50	CSR	F	3300	967	8.30	2.43	220	9	19.84
THK4430YUZ	8.21	0.50	CSR	F	3300	967	8.30	2.43	230	9	19.84



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP		kg	lb
TC4430Y-GS1B	7.84	0.48	CSIR	F	3350	982	7.94	2.33	220	9	18.96



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP		kg	lb
AE4430Y-DS1A	8.02	0.49	CSIR	F	3400	996	8.40	2.46	115-127	11	23.37
AE4430Y-LS1A	8.02	0.49	CSIR	F	3450	1011	8.00	2.34	115	11	23.37
AE4440Y-DS1A	10.33	0.63	CSIR	F	4300	1260	7.85	2.30	115-127	11	23.37
AE4440Y-LS1A	10.33	0.63	CSIR	F	4350	1275	7.88	2.31	115	10	21.38
AE4440Y-UZ1A	10.33	0.63	CSIR	F	4350	1275	8.16	2.39	230	11	23.37
AE4450Y-XA1A	13.24	0.81	CSIR	F	5450	1597	7.74	2.27	115	11	23.59
AE4450Y-DS1B	13.24	0.81	CSIR	F	5500	1612	7.71	2.26	115-127	11	24.25
AE4450Y-LS1B	13.24	0.81	CSIR	F	5500	1612	7.87	2.31	115	11	23.59



R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP		kg	lb
AE4430Y-XA1A	8.02	0.49	CSIR	F	3465	1015	7.71	2.26	115	9	20.72
AE3440Y-XN1A	10.33	0.63	CSIR	F	4415	1294	7.46	2.19	208-230	11	23.15
AE4440Y-AC3C	10.33	0.63	CSR	F	4579	1342	8.22	2.41	100-115	10	22.05
AE4456Y-AA1B	14.51	0.89	CSIR	F	6095	1786	7.48	2.19	115	11	24.69





R-134a

M/HBP - Medium / High Back Pressure

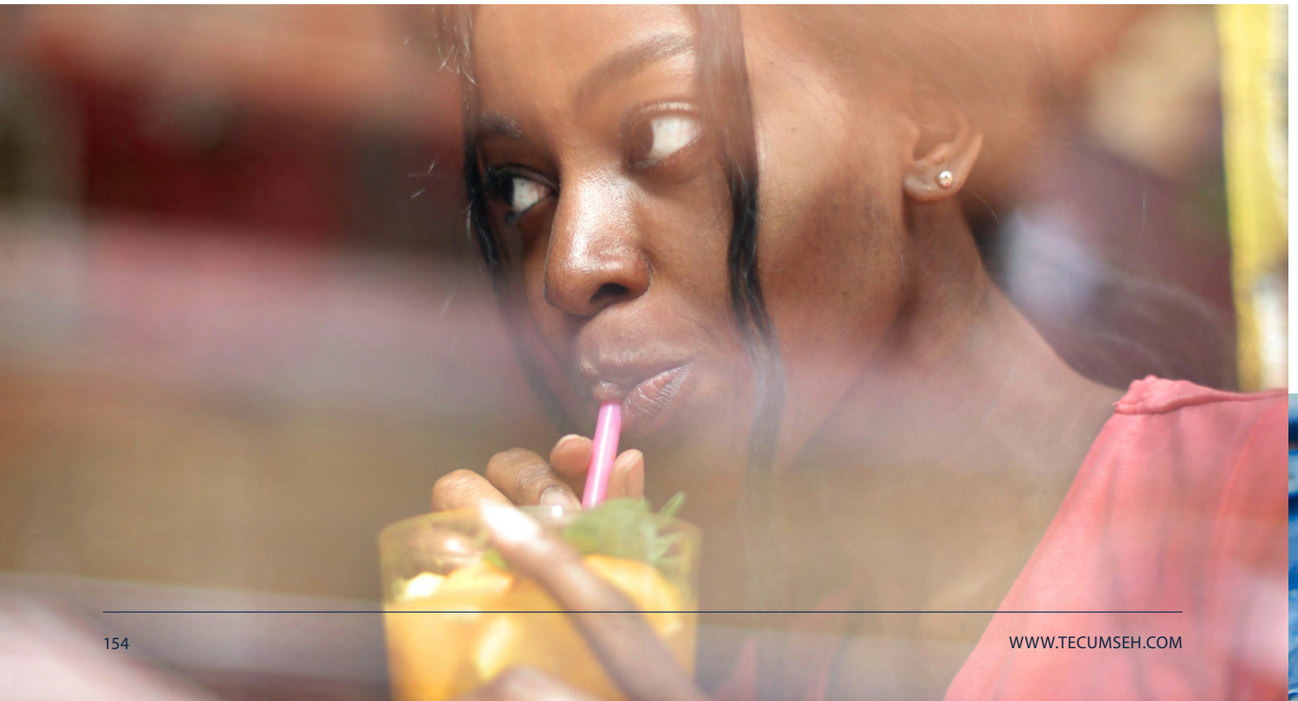
Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
TYA4452YDS	16.00	0.98	CSIR	F	5500	1612	7.33	2.15	115-127	17	36.38
TYA4466YDS	18.80	1.15	CSIR	F	6900	2022	7.60	2.23	115-127	17	36.82
TYA4466YES	18.80	1.15	CSIR	F	6900	2022	7.62	2.23	220	18	38.58
TYA4475YDS	22.30	1.37	CSIR	F	8000	2344	7.02	2.06	115-127	18	39.68
TYA4475YES	22.30	1.37	CSIR	F	8000	2344	7.12	2.09	220	18	39.68
TYA4489YES	26.00	1.60	CSIR	F	9400	2754	7.30	2.14	220	19	41.01



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HGA9430YXA	11.74	0.72	CSR	F	3000	879	6.38	1.87	115	12	27.12
HGB9443YAA	16.11	0.99	CSR	F	4300	1260	6.79	1.99	115	13	28.00





R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a) -6.7°C (+20°F) Capacity		ASHRAE (R-134a) -6.7°C (+20°F) Efficiency		ASHRAE (R-134a) +7.2°C (+45°F) Capacity		ASHRAE (R-134a) +7.2°C (+45°F) Efficiency		ENI2900 (R-134a) -10°C (+14°C) Capacity		ENI2900 (R-134a) -10°C (+14°C) Efficiency		ENI2900 (R-134a) +5°C (+41°F) Capacity		ENI2900 (R-134a) +5°C (+41°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB4410YXA	2.73	0.17	CSIR	N	543	159	4.99	1.46	1021	299	7.13	2.09	497	146	5.05	1.48	880	258	6.62	1.94	115	7.40	16.31
THB4410YHZ	2.73	0.17	CSIR	N	543	159	5.04	1.48	1021	299	7.38	2.16	497	146	5.08	1.49	880	258	6.82	2.00	208 -220	7.41	16.34
THB4413YXA	3.40	0.21	CSIR	N	738	216	5.25	1.54	1352	396	7.28	2.13	682	200	5.37	1.57	1168	342	6.77	1.98	115	7.48	16.49
THB4413YWZ	3.40	0.21	CSIR	N	733	215	4.95	1.45	1408	413	7.27	2.13	635	186	4.84	1.42	1188	348	6.61	1.94	220 -230	7.20	15.87
THB4415YHZ	4.00	0.25	CSIR	N	856	251	4.91	1.44	1557	456	6.79	1.99	795	233	5.00	1.47	1345	394	6.33	1.85	208 - 220	7.70	16.98
THB4415YXA	4.00	0.25	CSIR	N	856	251	5.16	1.51	1557	456	6.96	2.04	795	233	5.29	1.55	1345	394	6.51	1.91	115	7.70	16.98
THB4419YWZ	5.20	0.32	CSIR	N	1020	299	4.94	1.45	1864	546	6.49	1.90	886	260	4.82	1.41	1581	463	5.93	1.74	220 -230	7.20	15.87
THB4419YHZ	5.00	0.31	CSIR	N	1044	306	5.10	1.49	1881	551	6.73	1.97	967	283	5.24	1.54	1629	477	6.33	1.85	208 -220	8.02	17.68
THB4419YXA	5.00	0.31	CSIR	N	1044	306	5.22	1.53	1881	551	6.83	2.00	967	283	5.37	1.57	1629	477	6.44	1.89	115	7.80	17.20
THB4422YXA	6.10	0.37	CSIR	F	1319	386	5.15	1.51	2282	669	6.31	1.85	1237	362	5.35	1.57	1987	582	6.01	1.76	115	6.60	14.55
THB4422YCZ	5.90	0.36	CSIR	N	1319	386	5.08	1.49	2282	669	6.33	1.85	1237	362	5.28	1.55	1987	582	6.01	1.76	230	7.80	17.20



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A) -6.7°C (+20°F) Capacity		STANDARD TE (R-513A) -6.7°C (+20°F) Efficiency		STANDARD TE (R-513A) +7.2°C (+45°F) Capacity		STANDARD TE (R-513A) +7.2°C (+45°F) Efficiency		ENI2900 (R-513A) -10°C (+14°C) Capacity		ENI2900 (R-513A) -10°C (+14°C) Efficiency		ENI2900 (R-513A) +5°C (+41°F) Capacity		ENI2900 (R-513A) +5°C (+41°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB4410YXA	2.73	0.17	CSIR	N	484	142	4.23	1.24	884	259	5.90	1.73	521	153	4.98	1.46	824	241	5.92	1.73	115	7.40	16.31
THB4410YHZ	2.73	0.17	CSIR	N	484	142	4.27	1.25	884	259	6.10	1.79	521	153	5.01	1.47	824	241	6.10	1.79	208 -220	7.41	16.34
THB4413YXA	3.40	0.21	CSIR	N	658	193	4.44	1.30	1171	343	6.01	1.76	715	209	5.30	1.55	1094	321	6.06	1.78	115	7.48	16.49
THB4413YWZ	3.40	0.21	CSIR	N	675	198	4.32	1.27	1347	395	6.64	1.95	676	198	4.84	1.42	1209	354	6.42	1.88	220 -230	7.20	15.87
THB4415YHZ	4.00	0.25	CSIR	N	763	224	4.16	1.22	1348	395	5.61	1.64	834	244	4.94	1.45	1260	369	5.66	1.66	208 - 220	7.70	16.98
THB4415YXA	4.00	0.25	CSIR	N	763	224	4.36	1.28	1348	395	5.75	1.68	834	244	5.22	1.53	1260	369	5.82	1.71	115	7.70	16.98
THB4419YHZ	5.00	0.31	CSIR	N	931	273	4.32	1.27	1628	477	5.56	1.63	1015	297	5.17	1.51	1527	447	5.66	1.66	208 -220	8.02	17.68
THB4419YXA	5.00	0.31	CSIR	N	931	273	4.42	1.30	1628	477	5.65	1.66	1015	297	5.30	1.55	1527	447	5.75	1.68	115	7.80	17.20
THB4419YWZ	5.20	0.32	CSIR	N	939	275	4.32	1.27	1783	522	5.93	1.74	942	276	4.83	1.42	1608	471	5.76	1.69	220 -230	7.20	15.87
THB4422YXA	6.10	0.37	CSIR	F	1176	345	4.36	1.28	1975	579	5.21	1.53	1298	380	5.28	1.55	1861	545	5.37	1.57	115	6.60	14.55
THB4422YCZ	5.90	0.36	CSIR	N	1176	345	4.30	1.26	1975	579	5.23	1.53	1298	380	5.21	1.53	1861	545	5.37	1.57	230	7.80	17.20





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M/HBP - Medium / High Back Pressure

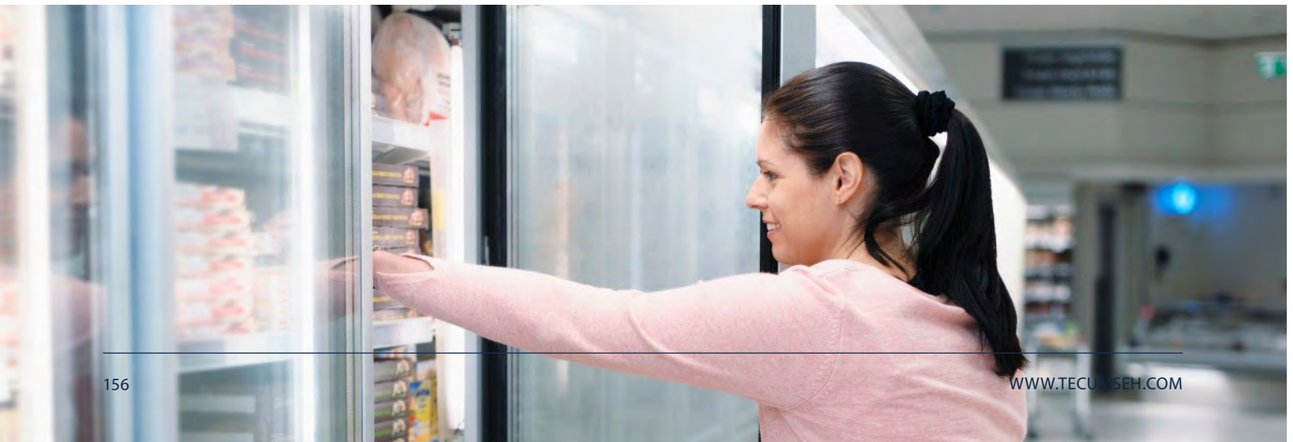
Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a) +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE3425Y-AA1A	6.69	0.41	RSIR	F	2800	820	8.31	2.43	115	9	19.84
AE4430Y-XN1A	8.02	0.49	CSIR	F	3300	967	7.89	2.31	208-230	11	23.15
AE3430Y-AA1A	8.02	0.49	RSIR	F	3400	996	8.13	2.38	115	10	20.94
AE3440Y-AA1A	10.33	0.63	RSIR	F	4350	1275	7.84	2.30	115	10	21.38
AE4440Y-XN1A	10.33	0.63	CSIR	F	4350	1275	8.16	2.39	208-230	11	23.37
AE4450Y-XN3C	13.24	0.81	CSR	F	5450	1597	8.68	2.54	208-230	11	23.48
AE4456Y-XN3C	14.51	0.89	CSR	F	6000	1758	8.17	2.39	208-230	11	25.13



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M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-513A) +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE3425Y-AA1A	6.69	0.41	RSIR	F	2852	836	7.91	2.32	115	9	19.84
AE4430Y-XN1A	8.02	0.49	CSIR	F	3364	986	7.41	2.17	208-230	11	23.15
AE3430Y-AA1A	8.02	0.49	RSIR	F	3419	1002	7.35	2.15	115	10	20.94
AE3440Y-AA1A	10.33	0.63	RSIR	F	4365	1279	7.36	2.16	115	10	21.38
AE4440Y-XN1A	10.33	0.63	CSIR	F	4527	1326	7.64	2.24	208-230	11	23.37
AE4450Y-XN3C	13.24	0.81	CSR	F	5583	1636	8.62	2.53	208-230	11	23.48
AE4456Y-XN3C	14.51	0.89	CSR	F	5583	1636	8.62	2.53	208-230	11	25.13





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M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Y-GS1A	6.69	0.41	CSIR	F	1417	415	5.47	1.60	2668	782	7.77	2.28	1223	358	5.35	1.57	2263	663	7.13	2.09	115	9.20	20.28
AE4425Y-AA1A	6.69	0.41	CSIR	F	1468	430	5.45	1.60	2749	805	7.78	2.28	1275	374	5.31	1.56	2334	684	7.11	2.08	220	9.10	20.06
AE4430Y-AA1A	8.02	0.49	CSIR	F	1762	516	5.35	1.57	3295	965	7.74	2.27	1549	454	5.27	1.54	2826	828	7.12	2.09	115	10.00	22.05
AE4430Y-GS1A	8.02	0.49	CSIR	F	1808	530	5.83	1.71	3387	992	8.30	2.43	1570	460	5.70	1.67	2876	843	7.59	2.22	220	9.60	21.16
AE4440Y-AA1A	10.33	0.63	CSIR	F	2366	693	5.50	1.61	4315	1264	7.56	2.22	2032	595	5.39	1.58	3652	1070	6.91	2.02	115	9.80	21.61
AE4440Y-GS1A	10.3	0.63	CSIR	F	2475	725	6.08	1.78	4396	1288	8.26	2.42	2153	631	6.01	1.76	3761	1102	7.63	2.24	220	11.40	25.13
AE4450Y-AA1A	13.2	0.81	CSIR	F	3080	902	5.86	1.72	5553	1627	8.02	2.35	2659	779	5.75	1.68	4710	1380	7.33	2.15	115	10.70	23.59
AE4450Y-ES1B	13.24	0.81	CSIR	F	3119	914	5.82	1.71	5571	1632	7.83	2.29	2680	785	5.66	1.66	4722	1384	7.14	2.09	220	11.20	24.69
AE4450Y-GS3C	13.24	0.81	CSR	F	3173	930	6.57	1.93	5671	1662	8.85	2.59	2734	801	6.40	1.88	4804	1408	8.05	2.36	220	11.30	24.91
AE4456Y-AA1C	14.51	0.89	CSIR	F	3423	1003	5.94	1.74	6058	1775	7.84	2.30	2957	866	5.85	1.71	5142	1507	7.21	2.11	220	11.20	24.69
AE4456Y-GS3C	14.51	0.89	CSR	F	3406	998	6.14	1.80	6084	1783	8.42	2.47	2930	858	5.92	1.73	5151	1509	7.64	2.24	220	11.40	25.13
AE4460Y-GS3C	15.09	0.93	CSR	F	3430	1005	5.47	1.60	6191	1814	7.76	2.27	2956	866	5.22	1.53	5240	1535	6.99	2.05	115	11.30	24.91
AE4460Y-AA3C	15.09	0.93	CSR	F	3487	1022	6.05	1.77	6214	1821	8.13	2.38	3006	881	5.83	1.71	5262	1542	7.37	2.16	115	11.40	25.13



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M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Y-GS1A	6.69	0.41	CSIR	F	1304	382	4.79	1.40	2553	748	7.09	2.08	1301	381	5.36	1.57	2302	674	6.92	2.03	220V 1-	9.20	20.28
AE4425Y-AA1A	6.69	0.41	CSIR	F	1351	396	4.76	1.39	2630	771	7.11	2.08	1357	398	5.31	1.56	2374	696	6.90	2.02	115V 1-	9.10	20.06
AE4430Y-AA1A	8.02	0.49	CSIR	F	1622	475	4.67	1.37	3151	923	7.07	2.07	1648	483	5.27	1.54	2875	842	6.92	2.03	220V 1-	10.00	21.16
AE4430Y-GS1A	8.02	0.49	CSIR	F	1665	488	5.09	1.49	3240	949	7.58	2.22	1671	490	5.70	1.67	2926	857	7.37	2.16	115V 1-	9.60	22.05
AE4440Y-AA1A	10.33	0.63	CSIR	F	2179	638	4.81	1.41	4128	1210	6.91	2.02	2162	633	5.40	1.58	3716	1089	6.71	1.97	115V 1-	9.80	21.61
AE4440Y-GS1A	10.3	0.63	CSIR	F	2279	668	5.31	1.56	4205	1232	7.55	2.21	2291	671	6.02	1.76	3826	1121	7.41	2.17	220V 1-	11.40	25.13
AE4450Y-AA1A	13.2	0.81	CSIR	F	2836	831	5.12	1.50	5312	1556	7.33	2.15	2830	829	5.76	1.69	4792	1404	7.12	2.09	115V 1-	10.70	23.59
AE4450Y-ES1B	13.24	0.81	CSIR	F	2872	841	5.09	1.49	5330	1562	7.16	2.10	2851	835	5.66	1.66	4804	1408	6.94	2.03	220V 1-	11.20	24.69
AE4450Y-GS3C	13.24	0.81	CSR	F	2922	856	5.74	1.68	5425	1590	8.09	2.37	2908	852	6.40	1.88	4887	1432	7.82	2.29	220V 1-	11.30	24.91
AE4456Y-AA1C	14.51	0.89	CSIR	F	3152	924	5.19	1.52	5796	1698	7.17	2.10	3146	922	5.85	1.71	5230	1532	7.01	2.05	115V 1-	11.20	24.69
AE4456Y-GS3C	14.51	0.89	CSR	F	3137	919	5.37	1.57	5821	1706	7.70	2.26	3118	914	5.92	1.73	5240	1535	7.42	2.17	220V 1-	11.40	25.13
AE4460Y-GS3C	15.09	0.93	CSR	F	3158	925	4.78	1.40	5923	1735	7.09	2.08	3144	921	5.22	1.53	5331	1562	6.79	1.99	220V 1-	11.30	24.91
AE4460Y-AA3C	15.09	0.93	CSR	F	3211	941	5.29	1.55	5945	1742	7.43	2.18	3198	937	5.83	1.71	5353	1568	7.16	2.10	115V 1-	11.40	25.13



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								AHRI								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4461Y-XA3B	15.63	0.95	CSR	F	3077	902	6.20	1.82	6145	1800	9.13	2.68	2983	874	6.00	1.76	5844	1712	8.72	2.55	115.00	34.00	74.96
AK4468Y-XA3B	17.45	1.07	CSR	F	3500	1026	6.50	1.90	6750	1978	9.15	2.68	3221	944	5.80	1.70	6500	1905	8.70	2.55	115.00	35.00	77.16
AK4481Y-XA3B	20.43	1.25	CSR	F	4393	1287	6.40	1.88	8172	2394	8.80	2.58	4136	1212	6.50	1.90	7624	2234	8.60	2.52	115.00	35.00	77.16
AK4481Y-XD3B	20.43	1.25	CSR	F	4460	1307	6.50	1.90	8173	2395	9.37	2.75	3890	1140	5.80	1.70	7677	2249	8.38	2.46	208-230	35.00	77.16
AK4510Y-NA3B	25.68	1.57	CSR	F	4900	1436	5.90	1.73	10304	3019	9.08	2.66	4865	1425	5.90	1.73	9770	2863	8.61	2.52	208-230	35.00	77.16
AK4510Y-XA3B	25.68	1.57	CSR	F	5330	1562	5.91	1.73	10371	3039	8.91	2.61	5018	1470	6.00	1.76	9830	2880	8.41	2.46	115.00	35.00	77.16



R-404A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A)				Voltage (V)	Weight	
					+7.2°C (+45°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE4450Z-GS3C	8.85	0.54	CSR	F	5800	1699	8.79	2.58	220	12	25.79



R-404A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					-6.7°C (+20°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
TYA9457ZES	19.00	1.17	CSIR	F	5780	1694	4.76	1.39	220	17	37.04
TYA9468ZES	22.30	1.37	CSR	F	6900	2022	5.31	1.56	220	18	38.58
TYA9483ZES	26.00	1.60	CSR	F	8300	2432	5.39	1.58	220	18	39.02





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB3428ZXA	5.20	0.32	RSIR	F	1507	442	3.82	1.12	2764	810	5.52	1.62	1598	468	4.53	1.33	2512	736	5.34	1.56	115	7.20	15.87



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A/R-449A)								ENI2900 (R-448A/R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB3428ZXA	5.20	0.32	RSIR	F	1529	448	4.08	1.20	2867	840	5.88	1.72	1544	452	4.65	1.36	2595	760	5.72	1.68	115	7.20	15.87



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
THB3428ZXA	5.20	0.32	RSIR	F	1503	440	3.88	1.14	2809	823	5.61	1.64	1571	460	4.54	1.33	2525	740	5.39	1.58	115	7.20	15.87



R-404A R-407C R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A)				Voltage (V)	Weight	
					+7.2°C (+45°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE4425Z-XN1A	4.24	0.26	CSIR	F	2800	820	7.89	2.31	208-230	10	20.94
AE4440Z-AA1A	6.69	0.41	CSIR	F	4350	1275	7.73	2.26	115	10	22.49
AE4450Z-AA3C	8.85	0.54	CSR	F	5850	1714	8.73	2.56	115	11	23.81
AE4450Z-XN3C	8.85	0.54	CSR	F	5900	1729	8.73	2.56	208-230	12	25.79



R-404A R-407C R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-407A) +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE4425Z-XN1A	4.24	0.26	CSIR	F	2627	770	8.03	2.35	208-230	10	20.94
AE4440Z-AA1A	6.69	0.41	CSIR	F	4046	1185	7.90	2.31	115	10	22.49
AE4450Z-AA3C	8.85	0.54	CSR	F	-	-	-	-	115	11	23.81
AE4450Z-XN3C	8.85	0.54	CSR	F	-	-	-	-	208-230	12	25.79



R-404A R-407C R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-448A / R-449A) +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE4425Z-XN1A	4.24	0.26	CSIR	F	2721	797	8.14	2.39	208-230	10	20.94
AE4440Z-AA1A	6.69	0.41	CSIR	F	4270	1251	8.29	2.43	115	10	22.49
AE4450Z-AA3C	8.85	0.54	CSR	F	5665	1660	9.27	2.72	115	11	23.81
AE4450Z-XN3C	8.85	0.54	CSR	F	-	-	-	-	208-230	12	25.79



R-404A R-407C R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-452A) +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE4425Z-XN1A	4.24	0.26	CSIR	F	2647	776	7.79	2.28	208-230	10	20.94
AE4440Z-AA1A	6.69	0.41	CSIR	F	4112	1205	7.63	2.24	115	10	22.49
AE4450Z-AA3C	8.85	0.54	CSR	F	5707	1672	8.89	2.60	115	11	23.81
AE4450Z-XN3C	8.85	0.54	CSR	F	-	-	-	-	208-230	12	25.79



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Z-AA1A	4.24	0.26	CSIR	F	1338	392	4.44	1.30	2518	738	6.89	2.02	1082	317	3.96	1.16	1957	573	5.67	1.66	115	9.20	20.28
AE4425Z-GS1A	4.24	0.26	CSIR	F	1342	393	4.53	1.33	2542	745	7.06	2.07	1075	315	4.10	1.20	1971	578	5.87	1.72	220	10.70	23.59
AE4430Z-GS1A	5.16	0.32	CSIR	F	1600	469	4.68	1.37	3058	896	7.18	2.10	1297	380	4.22	1.24	2372	695	5.92	1.73	220	11.00	24.25
AE4430Z-AA1A	5.16	0.32	CSIR	F	1654	485	4.38	1.28	3114	912	6.87	2.01	1337	392	3.95	1.16	2424	710	5.70	1.67	115	9.80	21.61
AE4440Z-AA1C	6.69	0.41	CSIR	F	2145	628	4.83	1.42	4053	1188	7.54	2.21	1745	511	4.35	1.27	3147	922	6.22	1.82	115	11.00	24.25
AE4440Z-GS1C	6.69	0.41	CSIR	F	2149	630	5.01	1.47	4260	1248	8.02	2.35	1704	499	4.44	1.30	3235	948	6.51	1.91	220	11.30	24.91
AE4450Z-ES1B	8.85	0.54	CSIR	F	2899	849	4.65	1.36	5213	1527	6.93	2.03	2293	672	4.10	1.20	4002	1173	5.65	1.66	220	11.20	24.69
AE4450Z-AA1A	8.85	0.54	CSR	F	2855	837	4.53	1.33	5284	1548	6.68	1.96	2305	675	4.10	1.20	4100	1201	5.54	1.62	115	10.70	23.59
AE4450Z-GS3B	8.85	0.54	CSR	F	2925	857	4.94	1.45	5334	1563	7.46	2.19	2359	691	4.39	1.29	4133	1211	6.12	1.79	220	11.00	24.25
AE4460Z-GS3C	10.33	0.63	CSR	F	3387	992	5.03	1.47	6157	1804	7.47	2.19	2704	792	4.48	1.31	4755	1393	6.18	1.81	220	11.60	25.57
AE4460Z-AA1C	10.33	0.63	CSIR	F	3436	1007	4.69	1.37	6181	1811	6.81	2.00	2738	802	4.24	1.24	4771	1398	5.64	1.65	115	11.40	25.13
AE4470Z-AA3C	12.01	0.74	CSR	F	3814	1118	4.80	1.41	6829	2001	6.83	2.00	3065	898	4.29	1.26	5285	1549	5.65	1.66	115	11.20	24.69
AE4470Z-ES3C	12.01	0.41	CSR	F	3936	1153	4.64	1.36	7003	2052	6.83	2.00	3105	910	4.06	1.19	5379	1576	5.57	1.63	220	12.20	26.90



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Z-AA1A	4.24	0.26	CSIR	F	1366	400	4.78	1.40	2630	771	7.45	2.18	1366	400	5.32	1.56	2374	696	7.18	2.10	115	9.20	20.28
AE4425Z-GS1A	4.24	0.26	CSIR	F	1374	403	4.87	1.43	2654	778	7.57	2.22	1364	400	5.52	1.62	2393	701	7.39	2.17	220	10.70	23.59
AE4430Z-GS1A	5.16	0.32	CSIR	F	1636	479	5.04	1.48	3196	936	7.75	2.27	1642	481	5.66	1.66	2881	844	7.48	2.19	220	11.00	24.25
AE4430Z-AA1A	5.16	0.32	CSIR	F	1686	494	4.71	1.38	3250	952	7.40	2.17	1689	495	5.32	1.56	2940	861	7.20	2.11	115	9.80	21.61
AE4440Z-AA1C	6.69	0.41	CSIR	F	2197	644	5.23	1.53	4241	1243	8.15	2.39	2198	644	5.84	1.71	3817	1118	7.86	2.30	115	11.00	24.25
AE4440Z-GS1C	6.69	0.41	CSIR	F	2224	652	5.45	1.60	4521	1325	8.76	2.57	2163	634	5.98	1.75	3974	1164	8.30	2.43	220	11.30	24.91
AE4450Z-ES1B	8.85	0.54	CSIR	F	2960	867	5.01	1.47	5470	1603	7.52	2.20	2888	846	5.49	1.61	4872	1427	7.17	2.10	220	11.20	24.69
AE4450Z-AA1A	8.85	0.54	CSR	F	2904	851	4.84	1.42	5520	1617	7.19	2.11	2904	851	5.47	1.60	4975	1458	6.97	2.04	115	10.70	23.59
AE4450Z-GS3B	8.85	0.54	CSR	F	2988	875	5.35	1.57	5570	1632	8.06	2.36	2968	870	5.89	1.73	5008	1467	7.74	2.27	220	11.00	24.25
AE4460Z-GS3C	10.33	0.63	CSR	F	3450	1011	5.41	1.59	6442	1888	8.03	2.35	3406	998	6.01	1.76	5777	1693	7.78	2.28	220	11.60	25.57
AE4460Z-AA1C	10.33	0.63	CSIR	F	3497	1025	5.02	1.47	6466	1895	7.30	2.14	3447	1010	5.65	1.66	5795	1698	7.08	2.07	115	11.40	25.13
AE4470Z-AA3C	12.01	0.74	CSR	F	3868	1133	5.13	1.50	7136	2091	7.31	2.14	3847	1127	5.72	1.68	6414	1879	7.10	2.08	115	11.20	24.69
AE4470Z-ES3C	12.01	0.41	CSR	F	4016	1177	5.00	1.47	7343	2151	7.39	2.17	3908	1145	5.45	1.60	6544	1917	7.05	2.07	220	12.20	26.90



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Z-AA1A	4.24	0.26	CSIR	F	1362	399	4.77	1.40	2628	770	7.44	2.18	1362	399	5.32	1.56	2370	694	7.16	2.10	115	9.20	20.28
AE4425Z-GS1A	4.24	0.26	CSIR	F	1371	402	4.86	1.42	2653	777	7.57	2.22	1361	399	5.51	1.61	2388	700	7.38	2.16	220	10.70	23.59
AE4430Z-GS1A	5.16	0.32	CSIR	F	1631	478	5.03	1.47	3193	936	7.75	2.27	1638	480	5.66	1.66	2875	842	7.46	2.19	220	11.00	24.25
AE4430Z-AA1A	5.16	0.32	CSIR	F	1681	493	4.70	1.38	3248	952	7.39	2.17	1685	494	5.31	1.56	2934	860	7.19	2.11	115	9.80	21.61
AE4440Z-AA1C	6.69	0.41	CSIR	F	2191	642	5.22	1.53	4238	1242	8.14	2.39	2193	643	5.83	1.71	3810	1116	7.84	2.30	115	11.00	24.25
AE4440Z-GS1C	6.69	0.41	CSIR	F	2218	650	5.44	1.59	4518	1324	8.76	2.57	2157	632	5.97	1.75	3966	1162	8.29	2.43	220	11.30	24.91
AE4450Z-ES1B	8.85	0.54	CSIR	F	2953	865	5.00	1.47	5467	1602	7.52	2.20	2882	844	5.48	1.61	4863	1425	7.16	2.10	220	11.20	24.69
AE4450Z-AA1A	8.85	0.54	CSR	F	2897	849	4.83	1.42	5517	1616	7.18	2.10	2897	849	5.46	1.60	4966	1455	6.96	2.04	115	10.70	23.59
AE4450Z-GS3B	8.85	0.54	CSR	F	2980	873	5.34	1.56	5567	1631	8.06	2.36	2962	868	5.88	1.72	4999	1465	7.73	2.26	220	11.00	24.25
AE4460Z-GS3C	10.33	0.63	CSR	F	3442	1009	5.40	1.58	6438	1886	8.03	2.35	3399	996	6.00	1.76	5767	1690	7.76	2.27	220	11.60	25.57
AE4460Z-AA1C	10.33	0.63	CSIR	F	3489	1022	5.01	1.47	6462	1893	7.30	2.14	3440	1008	5.64	1.65	5784	1695	7.07	2.07	115	11.40	25.13
AE4470Z-AA3C	12.01	0.74	CSR	F	3859	1131	5.12	1.50	7132	2090	7.31	2.14	3839	1125	5.71	1.67	6402	1876	7.09	2.08	115	11.20	24.69
AE4470Z-ES3C	12.01	0.41	CSR	F	4007	1174	4.99	1.46	7339	2150	7.38	2.16	3900	1143	5.45	1.60	6532	1914	7.04	2.06	220	12.20	26.90



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10C (14°C)				5°C (41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AE4425Z-AA1A	4.24	0.26	CSIR	F	1338	392	4.53	1.33	2569	753	7.07	2.07	1385	406	5.18	1.52	2302	674	6.72	1.97	115	9.20	20.28
AE4425Z-GS1A	4.24	0.26	CSIR	F	1345	394	4.62	1.35	2594	760	7.21	2.11	1382	405	5.37	1.57	2319	679	6.94	2.03	220	10.70	23.59
AE4430Z-GS1A	5.16	0.32	CSIR	F	1601	469	4.78	1.40	3121	914	7.36	2.16	1664	488	5.51	1.61	2792	818	7.01	2.05	220	11.00	24.25
AE4430Z-AA1A	5.16	0.32	CSIR	F	1652	484	4.46	1.31	3176	931	7.03	2.06	1713	502	5.17	1.51	2850	835	6.74	1.97	115	9.80	21.61
AE4440Z-AA1C	6.69	0.41	CSIR	F	2149	630	4.94	1.45	4140	1213	7.73	2.26	2231	654	5.68	1.66	3700	1084	7.36	2.16	115	11.00	24.25
AE4440Z-GS1C	6.69	0.41	CSIR	F	2168	635	5.15	1.51	4395	1288	8.29	2.43	2190	642	5.82	1.71	3838	1125	7.75	2.27	220	11.30	24.91
AE4450Z-ES1B	8.85	0.54	CSIR	F	2902	850	4.75	1.39	5337	1564	7.13	2.09	2936	860	5.35	1.57	4721	1383	6.71	1.97	220	11.20	24.69
AE4450Z-AA1A	8.85	0.54	CSR	F	2849	835	4.60	1.35	5392	1580	6.83	2.00	2950	864	5.34	1.56	4823	1413	6.54	1.92	115	10.70	23.59
AE4450Z-GS3B	8.85	0.54	CSR	F	2926	857	5.06	1.48	5443	1595	7.65	2.24	3017	884	5.74	1.68	4858	1423	7.25	2.12	220	11.00	24.25
AE4460Z-GS3C	10.33	0.63	CSR	F	3384	992	5.13	1.50	6290	1843	7.64	2.24	3462	1014	5.85	1.71	5600	1641	7.30	2.14	220	11.60	25.57
AE4460Z-AA1C	10.33	0.63	CSIR	F	3432	1006	4.77	1.40	6314	1850	6.95	2.04	3504	1027	5.51	1.61	5618	1646	6.65	1.95	115	11.40	25.13
AE4470Z-AA3C	12.01	0.74	CSR	F	3800	1113	4.88	1.43	6971	2043	6.96	2.04	3915	1147	5.59	1.64	6219	1822	6.67	1.95	115	11.20	24.69
AE4470Z-ES3C	12.01	0.41	CSR	F	3938	1154	4.74	1.39	7167	2100	7.01	2.05	3975	1165	5.31	1.56	6342	1858	6.61	1.94	220	12.20	24.25



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A)								AHRI (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4510Z-XA3B	15.63	0.95	CSR	F	5389	1579	5.60	1.64	9871	2892	8.55	2.51	4839	1418	5.30	1.55	8812	2582	7.41	2.17	115.00	34.00	74.96
AK4510Z-NA3C	15.63	0.95	CSR	F	6198	1816	7.08	2.07	10073	2951	9.35	2.74	5565	1631	6.70	1.96	9280	2719	8.50	2.49	208-230	35.00	77.16
AK4511Z-XA3B	17.45	1.07	CSR	F	5861	1717	5.60	1.64	10581	3100	8.38	2.46	5263	1542	5.30	1.55	9755	2858	7.74	2.27	115.00	35.00	77.16
AK4511Z-XD3B	17.45	1.07	CSR	F	6017	1763	5.71	1.67	11323	3318	8.85	2.59	5403	1583	5.40	1.58	10467	3067	8.18	2.40	208-230	35.00	77.16
AK4513Z-XD3B	20.43	1.25	CSR	F	6706	1965	5.39	1.58	12731	3730	8.23	2.41	6022	1764	5.10	1.49	11687	3424	7.67	2.25	208-230	35.00	77.16
AK4513Z-XA3B	20.43	1.25	CSR	F	6837	2003	5.39	1.58	12914	3784	8.13	2.38	6139	1799	5.10	1.49	11851	3472	7.51	2.20	115.00	35.00	77.16
AK4513Z-NA3C	20.43	1.25	CSR	F	7430	2177	6.02	1.76	13071	3830	8.70	2.55	6672	1955	5.70	1.67	12045	3529	7.92	2.32	208-230	35.00	77.16
AK4516Z-NA3C	25.68	1.57	CSR	F	8687	2545	5.49	1.61	16246	4760	8.28	2.43	7800	2285	5.20	1.52	14973	4387	7.59	2.22	208-230	35.00	77.16



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-448A / R-449A)								AHRI (R-448A / R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4510Z-XA3B	15.63	0.95	CSR	F	5412	1586	6.42	1.88	9776	2864	9.22	2.70	4860	1424	6.08	1.78	9162	2684	8.65	2.53	115.00	34.00	74.96
AK4510Z-NA3C	15.63	0.95	CSR	F	5581	1635	6.97	2.04	9872	2892	9.91	2.90	5011	1468	6.60	1.93	9323	2732	9.31	2.73	208-230	35.00	77.16
AK4511Z-XA3B	17.45	1.07	CSR	F	5574	1633	6.27	1.84	10245	3002	8.88	2.60	5005	1466	5.93	1.74	9590	2810	8.30	2.43	115.00	35.00	77.16
AK4511Z-XD3B	17.45	1.07	CSR	F	5948	1743	6.23	1.83	10916	3198	9.21	2.70	5341	1565	5.90	1.73	10447	3061	8.81	2.58	208-230	35.00	77.16
AK4513Z-XD3B	20.43	1.25	CSR	F	6815	1997	5.49	1.61	11191	3279	7.95	2.33	6120	1793	5.20	1.52	10615	3110	7.60	2.23	208-230	35.00	77.16
AK4513Z-XA3B	20.43	1.25	CSR	F	6950	2036	6.05	1.77	12385	3629	8.49	2.49	6241	1829	5.73	1.68	12047	3530	8.30	2.43	115.00	35.00	77.16
AK4513Z-NA3C	20.43	1.25	CSR	F	7272	2131	6.60	1.93	13234	3878	9.02	2.64	6530	1913	6.25	1.83	12266	3594	8.86	2.60	208-230	35.00	77.16
AK4516Z-NA3C	25.68	1.57	CSR	F	8587	2516	6.17	1.81	16251	4762	8.74	2.56	7710	2259	5.84	1.71	15244	4466	8.45	2.48	208-230	35.00	77.16





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-452A)								AHRI (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4510Z-XA3B	15.63	0.95	CSR	F	5365	1572	5.95	1.74	9841	2883	8.75	2.56	4818	1412	5.63	1.65	9094	2665	8.10	2.37	115.00	34.00	74.96
AK4510Z-NA3C	15.63	0.95	CSR	F	5357	1570	6.29	1.84	9947	2914	9.45	2.77	5565	1631	6.70	1.96	9240	2707	8.75	2.56	208-230	35.00	77.16
AK4511Z-XA3B	17.45	1.07	CSR	F	5402	1583	5.77	1.69	10316	3023	8.52	2.50	4851	1421	5.46	1.60	10333	3028	7.99	2.34	115.00	35.00	77.16
AK4511Z-XD3B	17.45	1.07	CSR	F	5922	1735	5.91	1.73	11123	3259	9.01	2.64	5318	1558	5.59	1.64	10306	3020	8.36	2.45	208-230	35.00	77.16
AK4513Z-XD3B	20.43	1.25	CSR	F	6846	2006	5.75	1.68	11968	3507	8.10	2.37	6147	1801	5.44	1.59	11720	3434	7.90	2.31	208-230	35.00	77.16
AK4513Z-XA3B	20.43	1.25	CSR	F	6950	2036	6.05	1.77	12701	3721	8.31	2.43	6241	1829	5.73	1.68	11829	3466	7.76	2.27	115.00	35.00	77.16
AK4513Z-NA3C	20.43	1.25	CSR	F	7148	2094	6.11	1.79	13120	3844	9.02	2.64	6419	1881	5.78	1.69	12201	3575	8.39	2.46	208-230	35.00	77.16
AK4516Z-NA3C	25.68	1.57	CSR	F	8313	2436	5.72	1.68	15570	4562	8.51	2.49	7465	2187	5.41	1.59	14873	4358	7.86	2.30	208-230	35.00	77.16



R-22

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					+7.2°C (+45°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE4425E-GS1A	4.24	0.26	CSIR	F	2600	762	8.33	2.44	220	10	20.94
AE4425E-DS1A	4.24	0.26	CSIR	F	2600	762	8.39	2.46	115-127	9	20.72
AE4430E-DS1A	5.16	0.32	CSIR	F	3200	938	8.21	2.41	115-127	11	23.37
AE4430E-GS1A	5.16	0.32	CSIR	F	3200	938	8.38	2.46	220	11	23.37
AE4440E-DS1A	6.69	0.41	CSIR	F	4000	1172	8.23	2.41	115-127	11	23.37
AE4440E-GS1B	6.69	0.41	CSIR	F	4100	1201	8.47	2.48	220	11	23.37
AE4450E-GS1B	8.02	0.49	CSIR	F	4900	1436	8.36	2.45	220	11	24.91
AE4450E-DS1B	8.02	0.49	CSIR	F	5100	1494	8.67	2.54	115-127	11	24.91
AE4456E-DS1B	9.39	0.58	CSIR	F	5800	1699	8.07	2.36	115-127	11	24.69
AE4456E-ES1B	9.39	0.58	CSIR	F	5850	1714	8.01	2.35	220	11	24.69
AE4460E-DS1B	10.33	0.63	CSIR	F	6300	1846	7.79	2.28	115-127	11	24.69
AE4460E-ES1B	10.33	0.63	CSIR	F	6350	1861	7.91	2.32	220	11	24.69
AE4470E-ES3C	13.24	0.81	CSR	F	7500	2198	8.06	2.36	220	11	24.69



R-22

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					-6.7°C (+20°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
TYA9448EES	16.00	0.98	CSIR	F	3900	1143	4.22	1.24	220	18	39.24
TYA9455EES	18.80	1.15	CSIR	F	5000	1465	4.30	1.26	220	19	41.23
TYA9467EES	22.30	1.37	CSR	F	6000	1758	4.96	1.45	220	19	40.79
TYA9474EES	26.00	1.60	CSR	F	7000	2051	4.83	1.42	220	19	42.55



R-290

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								EN12900								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TC4425U-GS1B	4.75	0.29	CSIR	F	1600	469	6.62	1.94	2690	788	9.78	2.87	1388	407	5.75	1.68	2300	674	6.46	1.89	220	8.69	19.16



R-290

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					+7,2°C (+45°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AE4430U-AA1A	6.12	0.38	CSIR	F	3300	967	8.75	2.56	115	10	21.38
AE4435U-AA1A	6.91	0.42	CSIR	F	3900	1143	8.99	2.63	115	10	22.77
AE4440U-AA1A	8.02	0.49	CSIR	F	4500	1319	9.09	2.66	115	10	22.49
AE4460U-AA1C	12.01	0.74	CSIR	F	6900	2022	8.78	2.57	115	11	24.69



R-290

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE								AHRI								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-6.7°C (+20°F)				+7.2°C (+45°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AK4482U-XA3B	15.63	0.95	CSR	F	4203	1231	6.54	1.92	8238	2414	9.80	2.87	3991	1169	6.20	1.82	7834	2295	9.34	2.74	115.00	34.00	74.96
AK4482U-XD3B	15.63	0.95	CSR	F	4632	1357	7.00	2.05	8410	2464	10.45	3.06	4213	1234	6.50	1.90	7995	2343	9.90	2.90	208-230	35.00	77.16
AK4492U-XA3B	17.45	1.07	CSR	F	5050	1480	6.46	1.89	9167	2686	9.60	2.81	4490	1316	6.30	1.85	8591	2517	9.17	2.69	115.00	35.00	77.16
AK4492U-XN3B	17.45	1.07	CSR	F	4939	1447	7.00	2.05	9362	2743	10.42	3.05	4663	1366	6.66	1.95	8883	2603	9.88	2.89	208-230	35.00	77.16
AK4511U-XA3B	20.43	1.25	CSR	F	6406	1877	6.40	1.88	11028	3231	9.05	2.65	5791	1697	6.10	1.79	10558	3093	8.70	2.55	115.00	35.00	77.16
AK4514U-NA3B	25.68	1.57	CSR	F	7940	2326	6.90	2.02	14363	4208	9.66	2.83	6950	2036	6.20	1.82	13731	4023	9.26	2.71	208-230	35.00	77.16



COMMERCIAL

LBP



R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				ARI				EN12900				Voltage (V)	Weight	
					-23.3°C (-10°F)				-23.3°C (-10°F)				-35°C (-31°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AWS2510ZXN	63.00	3.87	CSR	F	11500	3367	5.11	1.50	8717	2552	3.87	1.13	5221	1529	3.63	1.06	230 1-	30	66.14
AWS2510ZXG	63.00	3.87	TRI	F	12000	3517	5.17	1.52	8394	2460	4.03	1.18	5700	1671	3.86	1.13	460 3-	30	66.14
AWS2512ZKZ	68.00	4.17	TRI	F	13600	3982	5.04	1.47	10200	2987	3.82	1.12	6800	1991	4.03	1.18	220 3-	29	63.93
AWS2512ZXN	68.03	4.18	CSR	F	13600	3982	5.04	1.47	10268	3007	3.80	1.11	6392	1872	3.53	1.03	230 1-	30	66.14
AWS2512ZTZ	68.03	4.18	TRI	F	13600	3982	5.18	1.52	10200	2987	3.89	1.14	6297	1844	3.92	1.15	440 3-	30	66.14



R-404A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A)				EN12900 (R-404A)				Voltage (V)	Weight	
					-23.3°C (-10°F)				-35°C (-31°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2522Z	134.80	8.28	TRI	F	20891	6121	4.98	1.46	10166	2979	3.77	1.10	220 3-	47	103.62





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				EN12900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2428Z-HZ	15.20	0.93	CSIR	F	2381	698	3.63	1.06	1212	355	2.71	0.79	208 - 220 1-	20	43.43
CAJ2428Z-XA	15.20	0.93	CSIR	F	2495	731	4.00	1.17	1249	366	2.93	0.86	115 1-	20	42.99
TAJ2428Z-TZ	15.20	0.93	TRI	F	2548	747	4.30	1.26	1280	375	3.17	0.93	440 3-	19	42.55
CAJ2432Z-HZ	18.30	1.12	CSR	F	3007	881	3.96	1.16	1505	441	2.87	0.84	208 - 220 1-	20	44.75
CAJ2432Z-XA	18.30	1.12	CSR	F	3007	881	3.96	1.16	1505	441	2.89	0.85	115 1-	20	44.75
TAJ2432Z-TZ	18.30	1.12	TRI	F	3056	895	4.47	1.31	1538	451	3.41	1.00	440 3-	19	41.45
TAJ2446Z-TZ	26.20	1.61	TRI	F	4712	1381	4.54	1.33	2441	715	3.54	1.04	440 3-	22	48.28
CAJ2446Z-HZ	26.20	1.61	CSR	F	4758	1394	4.36	1.28	2469	723	3.30	0.97	208 - 220 1-	23	50.04
CAJ2446Z-XA	26.20	1.61	CSR	F	4758	1394	4.36	1.28	2469	723	3.39	0.99	115 1-	22	48.28
TAJ2446Z-KZ	26.20	1.61	TRI	F	5226	1531	4.97	1.46	2780	815	3.96	1.16	220 3-	21	45.86
TAJ2464Z-TZ	34.50	2.12	TRI	F	5895	1727	4.37	1.28	3071	900	3.41	1.00	440 3-	21	46.74
TAJ2464Z-KZ	34.50	2.12	TRI	F	6123	1794	4.45	1.30	3247	951	3.61	1.06	220 3-	22	47.62
CAJ2464Z-HZ	34.50	2.12	CSR	F	6162	1805	4.31	1.26	3190	935	3.29	0.96	208 - 220 1-	24	52.25
CAJ2464Z-XA	34.50	2.12	CSR	F	6162	1805	4.32	1.27	3190	935	3.41	1.00	115 1-	22	49.16

COMPRESSORS - 60Hz



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-448A) -23.3°C (-10°F)				EN12900 (R-448A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2428Z-HZ	15.20	0.93	CSIR	F	2124	622	3.38	0.99	1022	299	2.48	0.73	208 - 220 1-	20	43.43
CAJ2428Z-XA	15.20	0.93	CSIR	F	2226	652	3.73	1.09	1056	309	2.68	0.79	115 1-	20	42.99
TAJ2428Z-TZ	15.20	0.93	TRI	F	2267	664	4.01	1.17	1085	318	2.90	0.85	440 3-	19	42.55
CAJ2432Z-XA	18.30	1.12	CSR	F	2682	786	3.70	1.08	1275	374	2.66	0.78	115 1-	20	44.75
CAJ2432Z-HZ	18.30	1.12	CSR	F	2682	786	3.71	1.09	1275	374	2.64	0.77	208 - 220 1-	20	44.75
TAJ2432Z-TZ	18.30	1.12	TRI	F	2727	799	4.16	1.22	1299	381	3.09	0.91	440 3-	19	41.45
TAJ2446Z-TZ	26.20	1.61	TRI	F	4178	1224	4.20	1.23	2054	602	3.21	0.94	440 3-	22	48.28
CAJ2446Z-XA	26.20	1.61	CSR	F	4219	1236	4.03	1.18	2077	609	3.08	0.90	115 1-	22	48.28
CAJ2446Z-HZ	26.20	1.61	CSR	F	4219	1236	4.05	1.19	2077	609	3.01	0.88	208 - 220 1-	23	50.04
TAJ2446Z-KZ	26.20	1.61	TRI	F	4607	1350	4.58	1.34	2332	683	3.58	1.05	220 3-	21	45.86
TAJ2464Z-TZ	34.50	2.12	TRI	F	5227	1532	4.05	1.19	2579	756	3.08	0.90	440 3-	21	46.74
TAJ2464Z-KZ	34.50	2.12	TRI	F	5414	1586	4.10	1.20	2720	797	3.25	0.95	220 3-	22	47.62
CAJ2464Z-XA	34.50	2.12	CSR	F	5465	1601	4.00	1.17	2684	786	3.09	0.91	115 1-	22	49.16
CAJ2464Z-HZ	34.50	2.12	CSR	F	5465	1601	4.02	1.18	2684	786	2.99	0.88	208 - 220 1-	24	52.25





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-449A) -23.3°C (-10°F)				EN12900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2428Z-HZ	15.20	0.93	CSIR	F	2124	622	3.38	0.99	1019	299	2.48	0.73	208 - 220 1-	20	43.43
CAJ2428Z-XA	15.20	0.93	CSIR	F	2227	653	3.74	1.10	1052	308	2.68	0.79	115 1-	20	42.99
TAJ2428Z-TZ	15.20	0.93	TRI	F	2267	664	4.02	1.18	1081	317	2.89	0.85	440 3-	19	42.55
CAJ2432Z-HZ	18.30	1.12	CSR	F	2682	786	3.71	1.09	1271	372	2.63	0.77	208 - 220 1-	20	44.75
CAJ2432Z-XA	18.30	1.12	CSR	F	2682	786	3.71	1.09	1271	372	2.65	0.78	115 1-	20	44.75
TAJ2432Z-TZ	18.30	1.12	TRI	F	2728	799	4.17	1.22	1294	379	3.09	0.91	440 3-	19	41.45
TAJ2446Z-TZ	26.20	1.61	TRI	F	4180	1225	4.21	1.23	2047	600	3.20	0.94	440 3-	22	48.28
CAJ2446Z-XA	26.20	1.61	CSR	F	4221	1237	4.04	1.18	2070	607	3.07	0.90	115 1-	22	48.28
CAJ2446Z-HZ	26.20	1.61	CSR	F	4221	1237	4.06	1.19	2070	607	3.00	0.88	208 - 220 1-	23	50.04
TAJ2446Z-KZ	26.20	1.61	TRI	F	4610	1351	4.59	1.34	2324	681	3.57	1.05	220 3-	21	45.86
TAJ2464Z-TZ	34.50	2.12	TRI	F	5230	1532	4.06	1.19	2570	753	3.08	0.90	440 3-	21	46.74
TAJ2464Z-KZ	34.50	2.12	TRI	F	5417	1587	4.11	1.20	2711	794	3.24	0.95	220 3-	22	47.62
CAJ2464Z-XA	34.50	2.12	CSR	F	5468	1602	4.00	1.17	2675	784	3.09	0.91	115 1-	22	49.16
CAJ2464Z-HZ	34.50	2.12	CSR	F	5468	1602	4.02	1.18	2675	784	2.98	0.87	208 - 220 1-	24	52.25

COMPRESSORS - 60Hz



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-452A) -23.3°C (-10°F)				EN12900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2428Z-HZ	15.20	0.93	CSIR	F	2234	655	3.51	1.03	1130	331	2.67	0.78	208 - 220 1-	20	43.43
CAJ2428Z-XA	15.20	0.93	CSIR	F	2344	687	3.88	1.14	1167	342	2.88	0.84	115 1-	20	42.99
TAJ2428Z-TZ	15.20	0.93	TRI	F	2389	700	4.18	1.22	1199	351	3.12	0.91	440 3-	19	42.55
CAJ2432Z-XA	18.30	1.12	CSR	F	2822	827	3.84	1.13	1408	413	2.85	0.84	115 1-	20	44.75
CAJ2432Z-HZ	18.30	1.12	CSR	F	2822	827	3.85	1.13	1408	413	2.82	0.83	208 - 220 1-	20	44.75
TAJ2432Z-TZ	18.30	1.12	TRI	F	2871	841	4.33	1.27	1436	421	3.33	0.98	440 3-	19	41.45
TAJ2446Z-TZ	26.20	1.61	TRI	F	4413	1293	4.38	1.28	2279	668	3.47	1.02	440 3-	22	48.28
CAJ2446Z-XA	26.20	1.61	CSR	F	4457	1306	4.20	1.23	2304	675	3.32	0.97	115 1-	22	48.28
CAJ2446Z-HZ	26.20	1.61	CSR	F	4457	1306	4.22	1.24	2304	675	3.24	0.95	208 - 220 1-	23	50.04
TAJ2446Z-KZ	26.20	1.61	TRI	F	4880	1430	4.79	1.40	2592	759	3.87	1.13	220 3-	21	45.86
TAJ2464Z-TZ	34.50	2.12	TRI	F	5524	1619	4.23	1.24	2865	839	3.33	0.98	440 3-	21	46.74
TAJ2464Z-KZ	34.50	2.12	TRI	F	5726	1678	4.29	1.26	3024	886	3.52	1.03	220 3-	22	47.62
CAJ2464Z-XA	34.50	2.12	CSR	F	5774	1692	4.17	1.22	2980	873	3.34	0.98	115 1-	22	49.16
CAJ2464Z-HZ	34.50	2.12	CSR	F	5774	1692	4.18	1.22	2980	873	3.22	0.94	208 - 220 1-	24	52.25





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-404A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ2428X	15.20	0.93	TRI	F	2548	747	4.30	1.26	1280	375	3.17	0.93	440 3-	19	41.01
TAJ2432X	18.30	1.12	TRI	F	3056	895	4.47	1.31	1538	451	3.41	1.00	440 3-	18	39.90
TAJ2446X	26.20	1.61	TRI	F	4712	1381	4.54	1.33	2441	715	3.54	1.04	440 3-	21	46.08
TAJ2464X	34.50	2.12	TRI	F	5895	1727	4.37	1.28	3071	900	3.41	1.00	440 3-	21	46.74



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-408A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ2428X	15.20	0.93	TRI	F	2267	664	4.01	1.17	1085	318	2.90	0.85	440 3-	19	41.01
TAJ2432X	18.30	1.12	TRI	F	2727	799	4.16	1.22	1299	381	3.09	0.91	440 3-	18	39.90
TAJ2446X	26.20	1.61	TRI	F	3481	1020	4.16	1.22	1710	501	3.17	0.93	440 3-	21	46.08
TAJ2464X	34.50	2.12	TRI	F	5227	1532	4.05	1.19	2579	756	3.08	0.90	440 3-	21	46.74





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-449A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ2428X	15.20	0.93	TRI	F	2267	664	4.02	1.18	1081	317	2.89	0.85	440 3-	19	41.01
TAJ2432X	18.30	1.12	TRI	F	2728	799	4.17	1.22	1294	379	3.09	0.91	440 3-	18	39.90
TAJ2446X	26.20	1.61	TRI	F	4180	1225	4.21	1.23	2047	600	3.20	0.94	440 3-	21	46.08
TAJ2464X	34.50	2.12	TRI	F	5230	1532	4.06	1.19	2570	753	3.08	0.90	440 3-	21	46.74



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F) Capacity		Efficiency		ENI2900 (R-452A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ2428X	15.20	0.93	TRI	F	2389	700	4.18	1.22	1199	351	3.12	0.91	440 3-	19	41.01
TAJ2432X	18.30	1.12	TRI	F	2871	841	4.33	1.27	1436	421	3.33	0.98	440 3-	18	39.90
TAJ2446X	26.20	1.61	TRI	F	4413	1293	4.38	1.28	2279	668	3.47	1.02	440 3-	21	46.08
TAJ2464X	34.50	2.12	TRI	F	5524	1619	4.23	1.24	2865	839	3.33	0.98	440 3-	21	46.74



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F) Capacity		Efficiency		EN12900 (R-404A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480Z-XG	54.30	3.33	TRI	F	8977	2630	5.13	1.50	4337	1271	3.82	1.12	460 3-	30	66.14
FH2480Z-XN	54.30	3.33	CSR	F	9205	2697	4.82	1.41	4447	1303	3.59	1.05	208 - 230 1-	31	68.34
FH2480Z-KZ	54.30	3.33	TRI	F	9256	2712	5.18	1.52	4472	1310	3.86	1.13	220 3-	29	63.93
FH2511Z-XG	68.00	4.17	TRI	F	13031	3818	5.27	1.54	6296	1845	3.92	1.15	460 3-	31	68.34
FH2511Z-XN	68.03	4.18	CSR	F	13879	4067	4.87	1.43	6706	1965	3.62	1.06	208 - 230 1-	30	66.14
FH2511Z-KZ	68.00	4.17	TRI	F	14066	4121	5.40	1.58	6796	1991	4.02	1.18	220 3-	30	66.14



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F) Capacity		Efficiency		EN12900 (R-448A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480Z-XG	54.30	3.33	TRI	F	7861	2303	4.87	1.43	3689	1081	3.63	1.06	460 3-	30	66.14
FH2480Z-XN	54.30	3.33	CSR	F	8060	2362	4.57	1.34	3783	1108	3.40	1.00	208 - 230 1-	31	68.34
FH2480Z-KZ	54.30	3.33	TRI	F	8106	2375	4.91	1.44	3804	1115	3.66	1.07	220 3-	29	63.93
FH2511Z-XG	68.00	4.17	TRI	F	11411	3343	5.00	1.47	5355	1569	3.72	1.09	460 3-	31	68.34
FH2511Z-XN	68.03	4.18	CSR	F	12154	3561	4.62	1.35	5704	1671	3.44	1.01	208 - 230 1-	30	66.14
FH2511Z-KZ	68.00	4.17	TRI	F	12317	3609	5.12	1.50	5781	1694	3.82	1.12	220 3-	30	66.14





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F) Capacity		Efficiency		EN12900 (R-449A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480Z-XG	54.30	3.33	TRI	F	7860	2303	4.87	1.43	3675	1077	3.62	1.06	460 3-	30	66.14
FH2480Z-XN	54.30	3.33	CSR	F	8059	2361	4.57	1.34	3768	1104	3.40	1.00	208 - 230 1-	31	68.34
FH2480Z-KZ	54.30	3.33	TRI	F	8104	2374	4.92	1.44	3789	1110	3.65	1.07	220 3-	29	63.93
FH2511Z-XG	68.00	4.17	TRI	F	11410	3343	5.00	1.47	5334	1563	3.72	1.09	460 3-	31	68.34
FH2511Z-XN	68.03	4.18	CSR	F	12152	3561	4.62	1.35	5681	1665	3.43	1.00	208 - 230 1-	30	66.14
FH2511Z-KZ	68.00	4.17	TRI	F	12315	3608	5.13	1.50	5757	1687	3.81	1.12	220 3-	30	66.14



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F) Capacity		Efficiency		EN12900 (R-452A) -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480Z-XG	54.30	3.33	TRI	F	8341	2444	4.98	1.46	3942	1155	3.70	1.08	460 3-	30	66.14
FH2480Z-XN	54.30	3.33	CSR	F	8552	2506	4.68	1.37	4042	1184	3.47	1.02	208 - 230 1-	31	68.34
FH2480Z-KZ	54.30	3.33	TRI	F	8600	2520	5.03	1.47	4065	1191	3.73	1.09	220 3-	29	63.93
FH2511Z-XG	68.00	4.17	TRI	F	12107	3547	5.12	1.50	5723	1677	3.79	1.11	460 3-	31	68.34
FH2511Z-XN	68.03	4.18	CSR	F	12895	3778	4.73	1.39	6095	1786	3.51	1.03	208 - 230 1-	30	66.14
FH2511Z-KZ	68.00	4.17	TRI	F	13068	3829	5.24	1.54	6177	1810	3.89	1.14	220 3-	30	66.14



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				EN12900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513Z	100.70	6.18	TRI	F	13681	4009	4.46	1.31	6513	1908	3.27	0.96	440 3-	44	97.00
TAG2513Z	100.70	6.18	TRI	F	15061	4413	4.83	1.42	7243	2122	3.58	1.05	220 3-	44	97.00
TAG2516Z	112.50	6.91	TRI	F	16909	4954	5.06	1.48	8159	2391	3.78	1.11	220 3-	46	101.41
TAG2516Z	112.50	6.91	TRI	F	17178	5033	5.41	1.59	8231	2412	3.97	1.16	440 3-	43	94.80
TAG2519Z	124.40	7.64	TRI	F	19002	5568	5.20	1.52	9763	2861	4.02	1.18	440 3-	46	101.85
TAG2519Z	124.40	7.64	TRI	F	19462	5702	4.94	1.45	9651	2828	3.76	1.10	220 3-	46	101.85
TAG2522Z	134.80	8.28	TRI	F	23432	6866	5.00	1.47	11759	3445	3.82	1.12	440 3-	47	103.62
TAG2525Z	145.00	8.90	TRI	F	23818	6979	4.87	1.43	12352	3619	3.84	1.13	220 3-	47	103.62
TAG2525Z	145.00	8.90	TRI	F	25561	7489	4.99	1.46	12965	3799	3.87	1.13	440 3-	46	101.41
TAGD2532Z	225.00	13.81	TRI	F	34356	10066	5.41	1.59	16462	4823	3.97	1.16	440 3-	94	207.23
TAGD2544Z	269.60	16.55	TRI	F	46865	13731	5.00	1.47	23517	6890	3.82	1.12	440 3-	100	220.46

COMPRESSORS - 60Hz



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F)				EN12900 (R-448A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513Z	100.70	6.18	TRI	F	12366	3623	4.18	1.22	5548	1626	2.99	0.88	440 3-	44	97.00
TAG2513Z	100.70	6.18	TRI	F	13524	3963	4.51	1.32	6178	1810	3.27	0.96	220 3-	44	97.00
TAG2516Z	112.50	6.91	TRI	F	15167	4444	4.71	1.38	6947	2035	3.45	1.01	220 3-	46	101.41
TAG2516Z	112.50	6.91	TRI	F	15429	4521	5.05	1.48	7017	2056	3.64	1.07	440 3-	43	94.80
TAG2519Z	124.40	7.64	TRI	F	16895	4950	4.83	1.42	8227	2411	3.64	1.07	440 3-	46	101.85
TAG2519Z	124.40	7.64	TRI	F	17314	5073	4.68	1.37	7971	2336	3.45	1.01	220 3-	46	101.85
TAG2522Z	134.80	8.28	TRI	F	20935	6134	4.65	1.36	9937	2912	3.46	1.01	440 3-	47	103.62
TAG2525Z	145.00	8.90	TRI	F	21051	6168	4.50	1.32	10412	3051	3.48	1.02	220 3-	47	103.62
TAG2525Z	145.00	8.90	TRI	F	22700	6651	4.62	1.35	10956	3210	3.50	1.03	440 3-	46	101.41
TAGD2532Z	225.00	13.81	TRI	F	30859	9042	5.05	1.48	14033	4112	3.64	1.07	440 3-	94	207.23
TAGD2544Z	269.60	16.55	TRI	F	41869	12268	4.65	1.36	19875	5823	3.46	1.01	440 3-	100	220.46





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F)				ENI2900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513Z	100.70	6.18	TRI	F	12359	3621	4.19	1.23	5522	1618	2.98	0.87	440 3-	44	97.00
TAG2513Z	100.70	6.18	TRI	F	13520	3961	4.52	1.32	6151	1802	3.26	0.96	220 3-	44	97.00
TAG2516Z	112.50	6.91	TRI	F	15166	4444	4.72	1.38	6918	2027	3.44	1.01	220 3-	46	101.41
TAG2516Z	112.50	6.91	TRI	F	15428	4520	5.06	1.48	6987	2047	3.63	1.06	440 3-	43	94.80
TAG2519Z	124.40	7.64	TRI	F	16897	4951	4.84	1.42	8196	2401	3.64	1.07	440 3-	46	101.85
TAG2519Z	124.40	7.64	TRI	F	17313	5073	4.69	1.37	7938	2326	3.44	1.01	220 3-	46	101.85
TAG2522Z	134.80	8.28	TRI	F	20939	6135	4.66	1.37	9900	2901	3.45	1.01	440 3-	47	103.62
TAG2525Z	145.00	8.90	TRI	F	21062	6171	4.51	1.32	10376	3040	3.47	1.02	220 3-	47	103.62
TAG2525Z	145.00	8.90	TRI	F	22711	6654	4.63	1.36	10917	3199	3.50	1.03	440 3-	46	101.41
TAGD2532Z	225.00	13.81	TRI	F	30856	9041	5.06	1.48	13974	4094	3.63	1.06	440 3-	94	207.23
TAGD2544Z	269.60	16.55	TRI	F	41878	12270	4.66	1.37	19800	5801	3.45	1.01	440 3-	100	220.46



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F)				ENI2900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513Z	100.70	6.18	TRI	F	12927	3788	4.34	1.27	6061	1776	3.20	0.94	440 3-	44	97.00
TAG2513Z	100.70	6.18	TRI	F	14187	4157	4.69	1.37	6764	1982	3.51	1.03	220 3-	44	97.00
TAG2516Z	112.50	6.91	TRI	F	15530	4550	4.94	1.45	7298	2138	3.70	1.08	220 3-	46	101.41
TAG2516Z	112.50	6.91	TRI	F	15761	4618	5.27	1.54	7354	2155	3.88	1.14	440 3-	43	94.80
TAG2519Z	124.40	7.64	TRI	F	17830	5224	5.04	1.48	9111	2670	3.93	1.15	440 3-	46	101.85
TAG2519Z	124.40	7.64	TRI	F	18185	5328	4.87	1.43	8752	2564	3.70	1.08	220 3-	46	101.85
TAG2522Z	134.80	8.28	TRI	F	22037	6457	4.85	1.42	10971	3215	3.73	1.09	440 3-	47	103.62
TAG2525Z	145.00	8.90	TRI	F	22273	6526	4.71	1.38	11536	3380	3.76	1.10	220 3-	47	103.62
TAG2525Z	145.00	8.90	TRI	F	23974	7024	4.82	1.41	12120	3551	3.79	1.11	440 3-	46	101.41
TAGD2532Z	225.00	13.81	TRI	F	31522	9236	5.27	1.54	14708	4309	3.88	1.14	440 3-	94	207.23
TAGD2544Z	269.60	16.55	TRI	F	44075	12914	4.85	1.42	21943	6429	3.73	1.09	440 3-	100	220.46





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-404A) -23.3°C (-10°F)				EN12900 (R-404A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513X	100.70	6.18	TRI	F	13681	4009	4.46	1.31	6513	1908	3.27	0.96	440 3-	44	97.00
TAG2519X	124.40	7.64	TRI	F	19002	5568	5.20	1.52	9763	2861	4.02	1.18	440 3-	46	102.29



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A) -23.3°C (-10°F)				EN12900 (R-448A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513X	100.70	6.18	TRI	F	12366	3623	4.31	1.26	5548	1626	3.08	0.90	440 3-	44	97.00
TAG2516X	112.50	6.91	TRI	F	15892	4656	5.65	1.66	7227	2118	4.07	1.19	440 3-	45	99.21
TAG2519X	124.40	7.64	TRI	F	16895	4950	4.83	1.42	8227	2411	3.64	1.07	440 3-	46	102.29
TAG2522X	134.80	8.28	TRI	F	21144	6195	5.05	1.48	10037	2941	3.76	1.10	440 3-	47	103.62
TAG2525X	145.00	8.90	TRI	F	22700	6651	4.89	1.43	10956	3210	3.71	1.09	440 3-	47	103.62





R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A) -23.3°C (-10°F)				EN12900 (R-449A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513X	100.70	6.18	TRI	F	12359	3621	4.32	1.27	5522	1618	3.07	0.90	440 3-	44	97.00
TAG2516X	112.50	6.91	TRI	F	15891	4656	5.66	1.66	7196	2108	4.06	1.19	440 3-	45	99.21
TAG2519X	124.40	7.64	TRI	F	16897	4951	4.84	1.42	8196	2401	3.64	1.07	440 3-	46	102.29
TAG2522X	134.80	8.28	TRI	F	21148	6196	5.06	1.48	9999	2930	3.75	1.10	440 3-	47	103.62
TAG2525X	145.00	8.90	TRI	F	22711	6654	4.90	1.44	10917	3199	3.70	1.08	440 3-	47	103.62



R-404A R-448A R-449A R-452A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A) -23.3°C (-10°F)				EN12900 (R-452A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG2513X	100.70	6.18	TRI	F	12947	3793	4.48	1.31	6077	1781	3.30	0.97	440 3-	44	97.00
TAG2516X	112.50	6.91	TRI	F	16706	4895	5.89	1.73	7946	2328	4.38	1.28	440 3-	45	99.21
TAG2519X	124.40	7.64	TRI	F	17830	5224	5.04	1.48	9111	2670	3.93	1.15	440 3-	46	102.29
TAG2522X	134.80	8.28	TRI	F	22286	6530	5.27	1.54	11106	3254	4.06	1.19	440 3-	47	103.62
TAG2525X	145.00	8.90	TRI	F	24001	7032	5.11	1.50	12146	3559	4.01	1.17	440 3-	47	103.62



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C) -23.3°C (-10°F) Capacity		ASHRAE (R-454C) -23.3°C (-10°F) Efficiency		EN12900 (R-454C) -35°C (-31°F) Capacity		EN12900 (R-454C) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ2446P-TZ	26.20	1.61	TRI	F	4108	1204	4.84	1.42	1905	558	3.54	1.04	440 3-	21	46.96
AJ2464P-TZ	34.50	2.12	TRI	F	5288	1549	4.60	1.35	2599	762	3.53	1.03	440 3-	21	46.74
AJ2464P-KZ	34.50	2.12	TRI	F	5473	1604	4.65	1.36	2739	803	3.71	1.09	220 3-	22	47.62



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A) -23.3°C (-10°F) Capacity		ASHRAE (R-455A) -23.3°C (-10°F) Efficiency		EN12900 (R-455A) -35°C (-31°F) Capacity		EN12900 (R-455A) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ2446P-TZ	26.20	1.61	TRI	F	4473	1311	4.76	1.39	2165	634	3.63	1.06	440 3-	21	46.96
AJ2464P-TZ	34.50	2.12	TRI	F	6012	1762	4.59	1.34	2989	876	3.57	1.05	440 3-	21	46.74
AJ2464P-KZ	34.50	2.12	TRI	F	6211	1820	4.64	1.36	3144	921	3.73	1.09	220 3-	22	47.62



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C) -23.3°C (-10°F) Capacity		ASHRAE (R-454C) -23.3°C (-10°F) Efficiency		EN12900 (R-454C) -35°C (-31°F) Capacity		EN12900 (R-454C) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480P-XG	54.30	3.33	TRI	F	7783	2280	5.53	1.62	3628	1063	3.99	1.17	460 3-	30.00	66.14
FH2480P-KZ	54.30	3.33	TRI	F	7963	2333	5.19	1.52	3623	1062	3.94	1.15	220 3-	30.10	66.36
FH2511P-KZ	68.00	4.17	TRI	F	11832	3467	5.55	1.63	5463	1601	4.23	1.24	220 3-	30.10	66.36
FH2511P-XG	68.00	4.17	TRI	F	12322	3610	5.82	1.71	5673	1662	4.20	1.23	460 3-	31.00	68.34



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A) -23.3°C (-10°F) Capacity		ASHRAE (R-455A) -23.3°C (-10°F) Efficiency		EN12900 (R-455A) -35°C (-31°F) Capacity		EN12900 (R-455A) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH2480P-XG	54.30	3.33	TRI	F	9114	2670	5.50	1.61	4406	1291	4.12	1.21	460 3-	30.00	66.14
FH2480P-KZ	54.30	3.33	TRI	F	9336	2735	5.16	1.51	4417	1294	4.04	1.18	220 3-	30.10	66.36
FH2511P-KZ	68.00	4.17	TRI	F	13802	4044	5.48	1.61	6642	1946	4.34	1.27	220 3-	30.10	66.36
FH2511P-XG	68.00	4.17	TRI	F	14355	4206	5.78	1.69	6907	2024	4.34	1.27	460 3-	31.00	68.34



R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C) -23.3°C (-10°F) Capacity		ASHRAE (R-454C) -23.3°C (-10°F) Efficiency		EN12900 (R-454C) -35°C (-31°F) Capacity		EN12900 (R-454C) -35°C (-31°F) Efficiency		Voltage (V)	Weight	
	cm^3	in^3			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG2513P-TZ	100.70	6.18	TRI	F	10916	3198	4.80	1.41	4443	1302	3.28	0.96	440 3-	44.00	97.00
AG2516P-TZ	112.50	6.91	TRI	F	12342	3616	4.77	1.40	5306	1555	3.23	0.95	440 3-	46.00	101.41
AG2519P-TZ	124.40	7.64	TRI	F	15135	4435	4.77	1.40	7150	2095	3.59	1.05	440 3-	46.00	101.41
AG2522P-TZ	135.00	8.29	TRI	F	18353	5377	5.11	1.50	8874	2600	3.91	1.15	440 3-	48.00	105.82
AG2525P-TZ	145.00	8.90	TRI	F	20638	6047	5.31	1.56	9921	2907	4.01	1.17	440 3-	48.00	105.82





R-454C R-455A

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A) -23.3°C (-10°F)				EN12900 (R-455A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG2513P-TZ	100.70	6.18	TRI	F	12555	3679	4.87	1.43	5167	1514	3.41	1.00	440 3-	44.00	97.00
AG2516P-TZ	112.50	6.91	TRI	F	14056	4118	4.86	1.42	6119	1793	3.34	0.98	440 3-	46.00	101.41
AG2519P-TZ	124.40	7.64	TRI	F	17062	4999	4.80	1.41	8133	2383	3.67	1.08	440 3-	46.00	101.41
AG2522P-TZ	135.00	8.29	TRI	F	20537	6017	5.11	1.50	10076	2952	4.00	1.17	440 3-	48.00	105.82
AG2525P-TZ	145.00	8.90	TRI	F	21580	6323	5.16	1.51	10449	3062	4.03	1.18	440 3-	48.00	105.82



R-290

LBP - Low Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE -23.3°C (-10°F)				EN12900 (R-455A) -35°C (-31°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ2446U-HZ	26.20	1.61	CSR	F	4384	1285	4.65	1.36	2469	723	3.74	1.10	208 - 220 1-	21	45.86
CAJ2446U-XA	26.20	1.61	CSR	F	4502	1319	4.90	1.44	2457	720	3.79	1.11	115 1-	21	46.30
CAJ2464U-HZ	34.50	2.12	CSR	F	5925	1736	4.72	1.38	3247	951	3.83	1.12	208 - 220 1-	23	49.60
CAJ2464U-XA	34.50	2.12	CSR	F	6208	1819	4.69	1.37	3360	984	3.83	1.12	115 1-	21	46.30



COMMERCIAL

M/HBP



R-134a

M/HBP - Medium / High Back Pressure

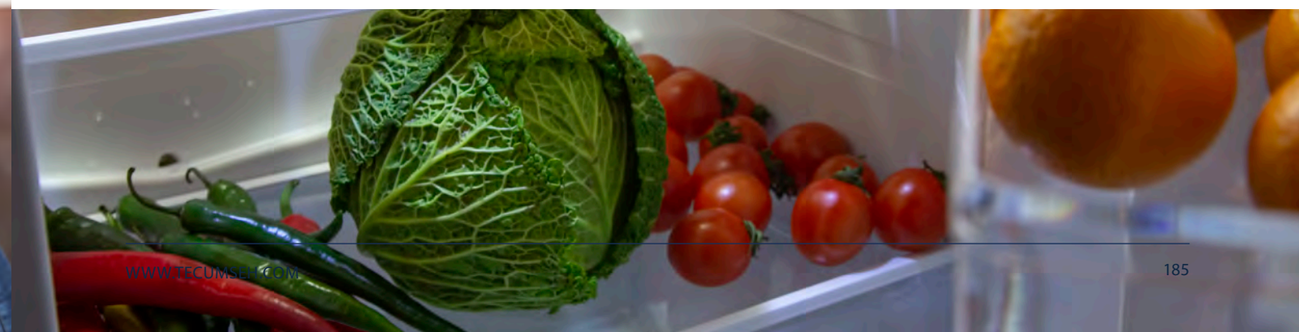
Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -6.7°C (+20°F) Capacity		Efficiency		ASHRAE +7.2°C (+45°F) Capacity		Efficiency		EN12900 -10°C (+14°C) Capacity		Efficiency		EN12900 +5°C (+41°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
CAJ4452Y-XA	15.20	0.93	CSIR	F	2688	788	5.34	1.56	5557	1628	7.90	2.31	2408	706	5.30	1.55	4748	1391	7.25	2.12	115 1-	20.00	44.09
CAJ4461Y-WZ	18.30	1.12	CSIR	F	3486	1021	5.35	1.57	6678	1957	7.54	2.21	3142	921	5.35	1.57	5757	1687	6.98	2.05	220 - 230 1-	18.30	40.34
CAJ4461Y-CZ	18.30	1.12	CSIR	F	3541	1038	5.32	1.56	6711	1966	7.38	2.16	3209	940	5.41	1.59	5783	1694	6.88	2.02	230 1-	18.60	41.01
CAJ4461Y-XA	18.30	1.12	CSIR	F	3464	1015	5.41	1.59	6876	2015	7.68	2.25	3160	926	5.46	1.60	5911	1732	7.13	2.09	115 1-	18.80	41.45
CAJ4476Y-WZ	21.80	1.34	CSIR	F	3742	1096	5.59	1.64	7940	2326	7.96	2.33	3442	1009	5.63	1.65	6766	1982	7.39	2.17	220 - 230 1-	19.40	42.77
TAJ4476Y-KZ	22.80	1.40	TRI	F	3779	1107	6.27	1.84	8054	2360	9.20	2.70	3395	995	6.26	1.83	6852	2008	8.46	2.48	220 3-	18.20	40.12
CAJ4476Y-CZ	21.80	1.34	CSIR	F	4236	1241	5.75	1.68	8235	2413	7.89	2.31	3777	1107	5.84	1.71	7086	2076	7.38	2.16	230 1-	18.60	41.01
CAJ4476Y-HZ	21.80	1.34	CSIR	F	4236	1241	5.74	1.68	8235	2413	7.98	2.34	3777	1107	5.78	1.69	7086	2076	7.45	2.18	208 - 220 1-	18.50	40.79
CAJ4476Y-XA	21.80	1.34	CSIR	F	4236	1241	5.72	1.68	8235	2413	8.09	2.37	3777	1107	5.77	1.69	7086	2076	7.52	2.20	115 1-	20.00	44.09
CAJ4492Y-XA	25.95	1.59	CSIR	F	4352	1275	5.49	1.61	9231	2705	7.93	2.32	4231	1240	5.63	1.65	8069	2364	7.37	2.16	115 1-	22.00	48.50
CAJ4492Y-CZ	25.95	1.59	CSIR	F	4875	1428	5.57	1.63	9344	2738	7.58	2.22	4383	1284	5.64	1.65	8038	2355	7.08	2.07	230 1-	19.40	42.77
CAJ4511Y-CZ	32.70	2.01	CSR	F	6724	1970	6.29	1.84	12578	3685	8.32	2.44	5932	1738	6.24	1.83	10755	3151	7.70	2.26	230 1-	23.00	50.71
TAJ4511Y-KZ	32.70	2.01	TRI	F	6867	2012	6.46	1.89	12856	3767	8.58	2.51	6063	1776	6.54	1.92	11029	3231	7.91	2.32	220 3-	20.00	44.09
CAJ4511Y-HZ	32.70	2.01	CSR	F	6828	2001	6.52	1.91	12941	3792	8.87	2.60	6130	1796	6.65	1.95	11174	3274	8.29	2.43	208 - 220 1-	21.50	47.40



R-134a

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE -23.3°C (-10°F) Capacity		Efficiency		ARI -23.3°C (-10°F) Capacity		Efficiency		EN12900 -35°C (-31°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AWS4518YXG	48.50	2.98	TRI	F	18300	5363	10.46	3.06	17100	5012	9.77	2.86	16000	4689	9.87	2.89	460 3-	27	59.52
AWS4525YXG	63.00	3.87	TRI	F	24750	7254	10.31	3.02	22750	6668	9.85	2.89	21180	6208	9.50	2.78	460 3-	27	59.52





R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ4452Y-TZ	15.20	0.93	TRI	F	2974	871	6.02	1.76	5806	1701	9.02	2.64	2641	774	5.96	1.75	4996	1464	8.32	2.44	440 3-	17.80	39.24
CAJ4461Y-HZ	18.30	1.12	CSIR	F	3541	1038	5.58	1.63	6711	1966	7.67	2.25	3209	940	5.69	1.67	5783	1694	7.16	2.10	208 - 220 1-	18.40	40.56
TAJ4461Y-TZ	18.30	1.12	TRI	F	3530	1034	6.08	1.78	6952	2037	8.81	2.58	3168	928	6.06	1.78	5935	1739	8.10	2.37	440 3-	17.80	39.24
TAJ4492Y-TZ	25.95	1.59	TRI	F	4827	1414	6.20	1.82	9778	2865	8.99	2.63	4355	1276	6.23	1.83	8358	2449	8.30	2.43	440 3-	19.00	41.89
CAJ4492Y-HZ	25.95	1.59	CSIR	F	4971	1457	6.31	1.85	9817	2876	9.19	2.69	4351	1275	6.26	1.83	8453	2477	8.52	2.50	208 - 220 1-	20.50	45.19
TAJ4511Y-TZ	32.70	2.01	TRI	F	6624	1941	6.28	1.84	12396	3632	8.48	2.48	5825	1707	6.30	1.85	10605	3107	7.88	2.31	440 3-	19.00	41.89



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ4452Y-TZ	15.20	0.93	TRI	F	2356	690	4.50	1.32	5296	1552	7.74	2.27	2503	733	5.30	1.55	4832	1416	7.57	2.22	440 3-	17.80	39.24
CAJ4461Y-HZ	18.30	1.12	CSIR	F	3259	955	4.85	1.42	6406	1877	6.89	2.02	3401	996	5.65	1.66	5868	1719	6.83	2.00	208 - 220 1-	18.40	40.56
TAJ4461Y-TZ	18.30	1.12	TRI	F	3276	960	5.33	1.56	6610	1937	7.88	2.31	3388	993	6.08	1.78	6011	1761	7.72	2.26	440 3-	17.80	39.24
TAJ4492Y-TZ	25.95	1.59	TRI	F	4439	1301	5.38	1.58	9331	2734	8.06	2.36	4616	1352	6.19	1.81	8478	2484	7.92	2.32	440 3-	19.00	41.89
CAJ4492Y-HZ	25.95	1.59	CSIR	F	4579	1342	5.49	1.61	9365	2744	8.24	2.41	4616	1352	6.22	1.82	8571	2511	8.13	2.38	208 - 220 1-	20.50	45.19



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518Y-XG	48.50	2.98	TRI	F	9322	2731	7.24	2.12	18729	5488	10.60	3.11	8285	2428	7.32	2.14	15989	4685	9.88	2.89	460 3-	29.00	63.93
FH4525Y-XG	63.00	3.87	TRI	F	12324	3611	7.02	2.06	24785	7262	10.30	3.02	10905	3195	7.08	2.07	21135	6193	9.54	2.80	460 3-	29.00	63.93



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518Y-XG	48.50	2.98	TRI	F	8574	2512	6.33	1.85	17914	5249	9.70	2.84	8815	2583	7.32	2.14	16269	4767	9.60	2.81	460 3-	29.00	63.93
FH4525Y-XG	63.00	3.87	TRI	F	11334	3321	6.13	1.80	23706	6946	9.37	2.75	11602	3399	7.09	2.08	21506	6301	9.27	2.72	460 3-	29.00	63.93



R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4528Y	90.20	5.54	TRI	F	12798	3750	6.50	1.90	28925	8475	9.66	2.83	10738	3146	6.35	1.86	24484	7174	8.96	2.63	440 3-	44.00	97.00
TAG4534Y	100.70	6.18	TRI	F	16511	4838	6.91	2.02	34517	10113	9.72	2.85	14353	4205	6.95	2.04	29446	8628	9.06	2.65	440 3-	44.00	97.00
TAG4534Y	100.70	6.18	TRI	F	16511	4838	7.03	2.06	34517	10113	10.10	2.96	14353	4205	7.03	2.06	29446	8628	9.35	2.74	220 3-	44.00	97.00
TAG4537Y	112.50	6.91	TRI	F	18892	5535	6.93	2.03	39016	11432	9.66	2.83	16537	4845	6.98	2.05	33315	9761	9.02	2.64	440 3-	44.00	97.00
TAG4537Y	112.50	6.91	TRI	F	18892	5535	7.05	2.07	39016	11432	9.99	2.93	16537	4845	7.06	2.07	33315	9761	9.31	2.73	220 3-	44.00	97.00
TAG4543Y	124.40	7.64	TRI	F	19712	5776	6.62	1.94	41957	12293	9.11	2.67	17217	5045	6.70	1.96	35648	10445	8.52	2.50	440 3-	44.00	97.00
TAG4543Y	124.40	7.64	TRI	F	19712	5776	6.73	1.97	41957	12293	9.42	2.76	17217	5045	6.78	1.99	35648	10445	8.80	2.58	220 3-	44.00	97.00
TAG4547Y	134.80	8.28	TRI	F	23036	6750	6.44	1.89	45805	13421	8.65	2.53	20374	5970	6.33	1.85	38965	11417	7.90	2.31	440 3-	44.00	97.00
TAGD4556Y	180.40	11.07	TRI	F	25597	7500	6.50	1.90	57850	16950	9.66	2.83	21475	6292	6.35	1.86	48968	14348	8.96	2.63	440 3-	104.00	229.28
TAGD4568Y	201.40	12.36	TRI	F	33022	9675	6.91	2.02	69034	20227	9.72	2.85	28706	8411	6.95	2.04	58892	17255	9.06	2.65	440 3-	104.00	229.28
TAGD4574Y	225.00	13.81	TRI	F	37783	11070	6.93	2.03	78031	22863	9.66	2.83	33075	9691	6.98	2.05	66630	19523	9.02	2.64	440 3-	104.00	229.28
TAGD4586Y	248.80	15.27	TRI	F	39425	11552	6.62	1.94	83915	24587	9.11	2.67	34433	10089	6.70	1.96	71296	20890	8.52	2.50	440 3-	104.00	229.28





R-134a R-513A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4528Y	90.20	5.54	TRI	F	10722	3142	5.17	1.51	26963	7900	8.52	2.50	11592	3396	5.90	1.73	24508	7181	8.19	2.40	440 3-	44.00	97.00
TAG4534Y	100.70	6.18	TRI	F	13353	3912	5.31	1.56	31137	9123	8.47	2.48	14052	4117	6.02	1.76	28174	8255	8.14	2.39	440 3-	44.00	97.00
TAG4534Y	100.70	6.18	TRI	F	15138	4435	6.08	1.78	32433	9503	8.89	2.60	15237	4464	6.99	2.05	29529	8652	8.83	2.59	220 3-	44.00	97.00
TAG4537Y	112.50	6.91	TRI	F	15575	4563	5.32	1.56	34195	10019	8.17	2.39	15991	4685	5.95	1.74	30830	9033	7.83	2.29	440 3-	44.00	97.00
TAG4537Y	112.50	6.91	TRI	F	17319	5074	6.10	1.79	36664	10743	8.83	2.59	17554	5143	7.03	2.06	33412	9790	8.79	2.58	220 3-	44.00	97.00
TAG4543Y	124.40	7.64	TRI	F	18027	5282	5.49	1.61	38480	11275	8.12	2.38	18357	5379	6.17	1.81	34666	10157	7.83	2.29	440 3-	44.00	97.00
TAG4543Y	124.40	7.64	TRI	F	18064	5293	5.83	1.71	39440	11556	8.33	2.44	18268	5353	6.74	1.97	35759	10477	8.31	2.43	220 3-	44.00	97.00
TAG4547Y	134.80	8.28	TRI	F	20144	5902	5.42	1.59	41874	12269	7.79	2.28	20503	6007	6.07	1.78	37743	11059	7.51	2.20	440 3-	44.00	97.00
TAGD4556Y	180.40	11.07	TRI	F	21444	6283	5.17	1.51	53926	15800	8.52	2.50	23184	6793	5.90	1.73	49016	14362	8.19	2.40	440 3-	104.00	229.28
TAGD4568Y	201.40	12.36	TRI	F	26705	7825	5.31	1.56	62274	18246	8.47	2.48	28104	8234	6.02	1.76	56349	16510	8.14	2.39	440 3-	104.00	229.28
TAGD4574Y	225.00	13.81	TRI	F	31150	9127	5.32	1.56	68389	20038	8.17	2.39	31981	9370	5.95	1.74	61661	18067	7.83	2.29	440 3-	104.00	229.28
TAGD4586Y	248.80	15.27	TRI	F	36054	10564	5.49	1.61	76960	22549	8.12	2.38	36714	10757	6.17	1.81	69332	20314	7.83	2.29	440 3-	104.00	229.28



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4461N-TZ	18.3	1.12	TRI	F	3530	1034	6.08	1.78	6952	2037	8.81	2.58	3168	928	6.06	1.78	5935	1739	8.10	2.37	440 3-	17.80	39.24
AJ4492N-TZ	25.95	1.59	TRI	F	4827	1414	6.20	1.82	9778	2865	8.99	2.63	4355	1276	6.23	1.83	8358	2449	8.30	2.43	440 3-	19.90	43.87
AJ4511N-TZ	32.7	2.01	TRI	F	6674	1955	6.02	1.76	12407	3635	8.11	2.38	5854	1715	5.98	1.75	10568	3096	7.45	2.18	440 3-	19.30	42.55



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4461N-TZ	18.3	1.12	TRI	F	3281	961	5,33	1,56	6616	1938	7,89	2,31	3390	993	6,08	1,78	6019	1763	7,72	2,26	440 3-	17.80	39.24
AJ4492N-TZ	25.95	1.59	TRI	F	4439	1301	5.38	1.58	9331	2734	8.06	2.36	4616	1352	6.19	1.81	8478	2484	7.92	2.32	440 3-	19.90	43.87
AJ4511N-TZ	32.7	2.01	TRI	F	6094	1786	5.46	1.60	11833	3467	7.62	2.23	6173	1809	6.26	1.83	10759	3152	7.52	2.20	440 3-	19.30	42.55



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-1234yf)								ENI2900 (R-1234yf)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4461N-TZ	18,3	1,12	TRI	F	2887	846	4.84	1.42	5976	1751	7.54	2.21	3020	885	5.56	1.63	5414	1586	7.29	2.14	440 3-	17.80	39.24
AJ4492N-TZ	25,95	1,59	TRI	F	4426	1297	5.06	1.48	8885	2603	7.54	2.21	4604	1349	5.87	1.72	8074	2366	7.34	2.15	440 3-	19.90	43.87
AJ4511N-TZ	32,7	2,01	TRI	F	5581	1635	5.02	1.47	10689	3132	7.16	2.10	5759	1687	5.80	1.70	9715	2846	6.98	2.05	440 3-	19.30	42.55



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518N-XG	48.50	2.98	TRI	F	8273	2424	6.77	1.98	17726	5194	10.10	2.96	7492	2195	6.83	2.00	15156	4441	9.31	2.73	460 3-	29.00	63.93
FH4525N-XG	63.00	3.87	TRI	F	12411	3636	7.06	2.07	24870	7287	10.30	3.02	10970	3214	7.12	2.09	21202	6212	9.57	2.80	460 3-	29.00	63.93



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518N-XG	48.50	2.98	TRI	F	7444	2181	5.77	1.69	16893	4950	9.17	2.69	7716	2261	6.53	1.91	15378	4506	8.97	2.63	460 3-	29.00	63.93
FH4525N-XG	63.00	3.87	TRI	F	11093	3250	5.99	1.76	23625	6922	9.35	2.74	11231	3291	6.78	1.99	21441	6282	9.19	2.69	460 3-	29.00	63.93





R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-1234yf)								ENI2900 (R-1234yf)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4518N-XG	48.50	2.98	TRI	F	7177	2103	5.81	1.70	15591	4568	8.91	2.61	7629	2235	6.65	1.95	14201	4161	8.68	2.54	460 3-	29.00	63.93
FH4525N-XG	63.00	3.87	TRI	F	10694	3133	6.02	1.76	21807	6389	9.09	2.66	11105	3254	6.90	2.02	19803	5802	8.90	2.61	460 3-	29.00	63.93



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4528N-TZ	90.20	5.54	TRI	F	12798	3750	6.50	1.90	28925	8475	9.66	2.83	10738	3146	6.35	1.86	24484	7174	8.96	2.63	440 3-	42.30	93.25
AG4534N-TZ	100.70	6.18	TRI	F	16511	4838	6.91	2.02	34517	10113	9.72	2.85	14353	4205	6.95	2.04	29446	8628	9.06	2.65	440 3-	42.30	93.25
AG4537N-TZ	112.50	6.91	TRI	F	18892	5535	6.93	2.03	39016	11432	9.66	2.83	16537	4845	6.98	2.05	33315	9761	9.02	2.64	440 3-	42.30	93.25
AG4543N-TZ	124.40	7.64	TRI	F	19712	5776	6.62	1.94	41957	12293	9.11	2.67	17217	5045	6.70	1.96	35648	10445	8.52	2.50	440 3-	42.30	93.25
AG4547N-TZ	134.80	8.28	TRI	F	23036	6750	6.44	1.89	45805	13421	8.65	2.53	20374	5970	6.33	1.85	38965	11417	7.90	2.31	440 3-	43.00	94.80



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4528N-TZ	90.20	5.54	TRI	F	10722	3142	5.17	1.51	26963	7900	8.52	2.50	11592	3396	5.90	1.73	24508	7181	8.19	2.40	440 3-	42.30	93.25
AG4534N-TZ	100.70	6.18	TRI	F	13353	3912	5.31	1.56	31137	9123	8.47	2.48	14052	4117	6.02	1.76	28174	8255	8.14	2.39	440 3-	42.30	93.25
AG4537N-TZ	112.50	6.91	TRI	F	15575	4563	5.32	1.56	34195	10019	8.17	2.39	15991	4685	5.95	1.74	30830	9033	7.83	2.29	440 3-	42.30	93.25
AG4543N-TZ	124.40	7.64	TRI	F	18027	5282	5.49	1.61	38480	11275	8.12	2.38	18357	5379	6.17	1.81	34666	10157	7.83	2.29	440 3-	42.30	93.25
AG4547N-TZ	134.80	8.28	TRI	F	20144	5902	5.42	1.59	41874	12269	7.79	2.28	20503	6007	6.07	1.78	37743	11059	7.51	2.20	440 3-	43.00	94.80



R-134a R-513A R-1234yf

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-1234yf)								ENI2900 (R-1234yf)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4528N-TZ	90.20	5.54	TRI	F	10604	3107	5.12	1.50	25893	7587	8.41	2.46	11712	3432	5.96	1.75	23599	6915	8.09	2.37	440 3-	42.30	93.25
AG4534N-TZ	100.70	6.18	TRI	F	13208	3870	5.25	1.54	29901	8761	8.36	2.45	14198	4160	6.08	1.78	27129	7949	8.04	2.36	440 3-	42.30	93.25
AG4537N-TZ	112.50	6.91	TRI	F	15045	4408	5.23	1.53	32354	9480	7.94	2.33	15854	4645	6.04	1.77	29288	8581	7.65	2.24	440 3-	42.30	93.25
AG4543N-TZ	124.40	7.64	TRI	F	17346	5082	5.34	1.56	36194	10605	7.88	2.31	18172	5324	6.16	1.80	32718	9586	7.60	2.23	440 3-	42.30	93.25
AG4547N-TZ	134.80	8.28	TRI	F	19927	5839	5.36	1.57	40210	11782	7.69	2.25	20717	6070	6.14	1.80	36341	10648	7.42	2.17	440 3-	43.00	94.80



R-404A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				ARI				ENI2900				Voltage (V)	Weight	
					+7.2°C (+45°F)				+7.2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AWS4516ZXG	30.56	1.88	TRI	F	16200	4744	9.36	2.74	8740	2559	3.84	1.12	5865	1717	3.92	1.15	460 3-	27	59.52
AWS4516ZXN	30.56	1.88	CSR	F	16800	4919	9.18	2.69	15338	4491	8.55	2.50	13776	4034	8.19	2.40	230 1-	26	57.32
AWS4520ZXN	35.60	2.19	CSR	F	20600	6038	9.69	2.84	18800	5510	9.04	2.65	16890	4950	8.65	2.53	230 1-	27	58.42
AWS4522ZKZ	39.60	2.43	TRI	F	23200	6793	9.55	2.80	21182	6202	8.90	2.60	19024	5570	8.52	2.49	220 3-	26	57.32
AWS4522ZXG	39.66	2.43	TRI	F	23400	6852	9.63	2.82	21364	6256	8.97	2.63	19188	5618	8.59	2.52	460 3-	26	57.32
AWS4522ZXN	39.60	2.43	CSR	F	23600	6910	9.63	2.82	21547	6309	8.97	2.63	19352	5666	8.59	2.52	230 1-	26	57.32
AWS4524ZKZ	43.30	2.66	TRI	F	25300	7415	9.20	2.70	-	-	-	-	-	-	-	-	220 3-	27	58.42
AWS4524ZXG	43.10	2.65	TRI	F	26000	7613	9.63	2.82	23738	6951	8.97	2.63	21320	6243	8.59	2.52	460 3-	27	59.52
AWS4524ZXN	43.30	2.66	CSR	F	26500	7759	9.64	2.82	24168	7077	8.96	2.62	21730	6363	8.60	2.52	230 1-	28	61.73
AWS4532ZKZ	50.60	3.11	TRI	F	31000	9077	9.39	2.75	28303	8287	8.75	2.56	25420	7443	8.38	2.45	220 3-	28	61.73
AWS4532ZXG	50.60	3.11	TRI	F	31400	9194	9.75	2.86	28668	8394	9.08	2.66	25748	7539	9.01	2.64	460 3-	28	61.73
AWS4532ZXN	50.60	3.11	CSR	F	32000	9370	9.70	2.84	29216	8555	9.03	2.65	26240	7683	8.65	2.53	230 1-	29	63.93
AWS4538ZKZ	63.00	3.87	TRI	F	39300	11507	9.29	2.72	35881	10506	8.66	2.53	32226	9436	8.29	2.43	220 3-	30	66.14
AWS4538ZXG	63.00	3.87	TRI	F	40150	11756	9.56	2.80	36657	10734	8.91	2.61	32923	9640	8.53	2.50	460 3-	30	66.14
AWS4538ZXN	63.00	3.87	CSR	F	40700	11917	9.55	2.80	37159	10881	8.90	2.61	33374	9772	8.52	2.50	230 1-	30	66.14
AWS4544ZKZ	68.00	4.17	TRI	F	43600	12767	8.99	2.63	39807	11656	8.38	2.45	35752	10469	8.02	2.35	220 3-	30	66.14
AWS4544ZXG	68.00	4.17	TRI	F	44500	13030	9.18	2.69	40629	11897	8.55	2.50	36490	10685	8.19	2.40	460 3-	30	66.14



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency						Capacity		Efficiency								
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522Z-XN	39.60	2.43	CSR	F	10610	3109	5.33	1.56	21022	6159	8.73	2.56	11266	3300	6.28	1.84	19040	5577	8.47	2.48	208 - 230 1-	29.00	63.93
FH4522Z-KZ	39.60	2.43	TRI	F	9921	2907	5.33	1.56	21422	6277	9.00	2.64	11423	3346	6.18	1.81	19040	5577	8.54	2.50	220 3-	27.00	59.52
FH4522Z-XG	39.60	2.43	TRI	F	10199	2988	5.57	1.63	21523	6306	9.02	2.64	10751	3149	6.52	1.91	19211	5627	8.60	2.52	460 3-	33.00	72.75
FH4524Z-KZ	43.30	2.66	TRI	F	10802	3165	5.30	1.55	23132	6778	8.56	2.51	11717	3432	6.38	1.87	21000	6151	8.33	2.44	220 3-	30.00	66.14
FH4524Z-XG	43.30	2.66	TRI	F	11170	3273	5.50	1.61	23255	6814	8.79	2.58	12287	3599	6.73	1.97	21331	6248	8.60	2.52	460 3-	33.00	72.75
FH4524Z-XN	43.30	2.66	CSR	F	11624	3406	5.40	1.58	23409	6859	8.62	2.53	12553	3677	6.52	1.91	21361	6257	8.47	2.48	208 -230 1-	29.00	63.93
FH4532Z-XG	50.60	3.11	TRI	F	14568	4268	5.90	1.73	28223	8269	8.94	2.62	15575	4562	7.07	2.07	25765	7547	8.71	2.55	460 3-	29.00	63.93
FH4532Z-KZ	50.60	3.11	TRI	F	14442	4232	5.65	1.66	28718	8414	8.86	2.60	14919	4370	6.45	1.89	25434	7450	8.36	2.45	220 3-	29.00	63.93
FH4532Z-XN	50.60	3.11	CSR	F	14524	4256	5.35	1.57	28726	8417	8.82	2.58	15373	4503	6.35	1.86	26015	7620	8.57	2.51	208 -230 1-	30.00	66.14
FH4538Z-XG	63.00	3.87	TRI	F	18264	5351	5.79	1.70	34910	10229	8.78	2.57	19501	5712	6.93	2.03	31791	9312	8.54	2.50	460 3-	31.00	68.34
FH4538Z-KZ	63.00	3.87	TRI	F	18520	5426	5.63	1.65	35400	10372	8.53	2.50	19774	5792	6.73	1.97	32238	9443	8.30	2.43	220 3-	31.00	68.34
FH4538Z-XN	63.00	3.87	CSR	F	19356	5671	5.70	1.67	36960	10829	8.73	2.56	20067	5878	6.79	1.99	33519	9818	8.54	2.50	208 -230 1-	30.00	66.14
FH4544Z-KZ	68.00	4.17	TRI	F	20549	6021	5.45	1.60	39279	11509	8.26	2.42	21942	6427	6.52	1.91	35768	10477	8.02	2.35	220 3-	30.00	66.14
FH4544Z-XG	68.00	4.17	TRI	F	20975	6146	5.56	1.63	40092	11747	8.43	2.47	22396	6560	6.66	1.95	36509	10694	8.19	2.40	460 3-	31.00	68.34



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency						Capacity		Efficiency								
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522Z-XN	39.60	2.43	CSR	F	10878	3187	5.76	1.69	22031	6455	9.43	2.76	10955	3210	6.51	1.91	19832	5811	9.16	2.68	208 - 230 1-	29.00	63.93
FH4522Z-KZ	39.60	2.43	TRI	F	10340	3030	5.83	1.71	22835	6691	9.87	2.89	10187	2985	6.42	1.88	20090	5886	9.33	2.73	220 3-	27.00	59.52
FH4522Z-XG	39.60	2.43	TRI	F	10600	3106	6.03	1.77	22841	6692	9.86	2.89	10510	3079	6.72	1.97	20195	5917	9.38	2.75	460 3-	33.00	72.75
FH4524Z-XG	43.30	2.66	TRI	F	11451	3355	5.87	1.72	24283	7115	9.45	2.77	11927	3495	6.87	2.01	22127	6483	9.27	2.72	460 3-	33.00	72.75
FH4524Z-XN	43.30	2.66	CSR	F	11902	3487	5.78	1.69	24506	7180	9.26	2.71	12163	3564	6.68	1.96	22199	6504	9.11	2.67	208 -230 1-	29.00	63.93
FH4524Z-KZ	43.30	2.66	TRI	F	11937	3498	6.18	1.81	25314	7417	9.95	2.92	12434	3643	7.23	2.12	23066	6758	9.76	2.86	220 3-	30.00	66.14
FH4532Z-XG	50.60	3.11	TRI	F	14865	4355	6.30	1.85	29420	8620	9.60	2.81	15104	4425	7.23	2.12	26715	7827	9.37	2.75	460 3-	29.00	63.93
FH4532Z-XN	50.60	3.11	CSR	F	14904	4367	5.77	1.69	30147	8833	9.55	2.80	14935	4376	6.55	1.92	27107	7942	9.28	2.72	208 -230 1-	30.00	66.14
FH4532Z-KZ	50.60	3.11	TRI	F	14973	4387	6.15	1.80	30479	8930	9.67	2.83	14559	4266	6.67	1.95	26754	7839	9.15	2.68	220 3-	29.00	63.93
FH4538Z-KZ	63.00	3.87	TRI	F	18908	5540	6.02	1.76	36938	10823	9.17	2.69	19134	5606	6.88	2.02	33431	9795	8.93	2.62	220 3-	31.00	68.34
FH4538Z-XG	63.00	3.87	TRI	F	19320	5661	6.20	1.82	37741	11058	9.45	2.77	19550	5728	7.09	2.08	34157	10008	9.19	2.69	460 3-	31.00	68.34
FH4538Z-XN	63.00	3.87	CSR	F	19771	5793	6.10	1.79	38660	11327	9.38	2.75	19789	5798	6.95	2.04	34851	10211	9.17	2.69	208 -230 1-	30.00	66.14
FH4544Z-KZ	68.00	4.17	TRI	F	20980	6147	5.82	1.71	40985	12009	8.88	2.60	21230	6220	6.66	1.95	37094	10869	8.64	2.53	220 3-	30.00	66.14
FH4544Z-XG	68.00	4.17	TRI	F	21414	6274	5.94	1.74	41834	12257	9.06	2.65	21670	6349	6.80	1.99	37861	11093	8.82	2.58	460 3-	31.00	68.34





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)						+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522Z-XN	39.60	2.43	CSR	F	10846	3178	5.74	1.68	22013	6450	9.43	2.76	10928	3202	6.50	1.90	19792	5799	9.15	2.68	208 - 230 1-	29.00	63.93
FH4522Z-KZ	39.60	2.43	TRI	F	10306	3020	5.81	1.70	22815	6685	9.87	2.89	10159	2977	6.41	1.88	20047	5874	9.32	2.73	220 3-	27.00	59.52
FH4522Z-XG	39.60	2.43	TRI	F	10566	3096	6.02	1.76	22822	6687	9.85	2.89	10482	3071	6.70	1.96	20152	5905	9.37	2.75	460 3-	33.00	72.75
FH4524Z-XG	43.30	2.66	TRI	F	11413	3344	5.86	1.72	24259	7108	9.44	2.77	11895	3485	6.86	2.01	22079	6469	9.25	2.71	460 3-	33.00	72.75
FH4524Z-XN	43.30	2.66	CSR	F	11865	3476	5.77	1.69	24483	7174	9.26	2.71	12132	3555	6.67	1.95	22152	6491	9.09	2.66	208 -230 1-	29.00	63.93
FH4524Z-KZ	43.30	2.66	TRI	F	11897	3486	6.17	1.81	25289	7410	9.94	2.91	12400	3633	7.22	2.12	23017	6744	9.74	2.85	220 3-	30.00	66.14
FH4532Z-XG	50.60	3.11	TRI	F	14822	4343	6.29	1.84	29395	8613	9.60	2.81	15068	4415	7.22	2.12	26661	7812	9.35	2.74	460 3-	29.00	63.93
FH4532Z-XN	50.60	3.11	CSR	F	14860	4354	5.76	1.69	30122	8826	9.55	2.80	14898	4365	6.54	1.92	27051	7926	9.26	2.71	208 -230 1-	30.00	66.14
FH4532Z-KZ	50.60	3.11	TRI	F	14930	4374	6.14	1.80	30459	8924	9.67	2.83	14524	4256	6.65	1.95	26703	7824	9.13	2.68	220 3-	29.00	63.93
FH4538Z-KZ	63.00	3.87	TRI	F	18855	5525	6.00	1.76	36910	10815	9.17	2.69	19089	5593	6.87	2.01	33365	9776	8.91	2.61	220 3-	31.00	68.34
FH4538Z-XG	63.00	3.87	TRI	F	19265	5645	6.18	1.81	37712	11050	9.44	2.77	19504	5715	7.07	2.07	34090	9988	9.18	2.69	460 3-	31.00	68.34
FH4538Z-XN	63.00	3.87	CSR	F	19716	5777	6.08	1.78	38630	11319	9.37	2.75	19743	5785	6.94	2.03	34782	10191	9.15	2.68	208 -230 1-	30.00	66.14
FH4544Z-KZ	68.00	4.17	TRI	F	20920	6130	5.81	1.70	40954	12000	8.87	2.60	21180	6206	6.65	1.95	37021	10847	8.63	2.53	220 3-	30.00	66.14
FH4544Z-XG	68.00	4.17	TRI	F	21354	6257	5.93	1.74	41802	12248	9.06	2.65	21618	6334	6.79	1.99	37787	11072	8.80	2.58	460 3-	31.00	68.34



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)						+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522Z-XN	39.60	2.43	CSR	F	10625	3113	5.44	1.59	21491	6297	8.92	2.61	11070	3244	6.30	1.85	19193	5624	8.55	2.51	208 - 230 1-	29.00	63.93
FH4522Z-KZ	39.60	2.43	TRI	F	10035	2940	5.48	1.61	22155	6491	9.30	2.72	10263	3007	6.22	1.82	19354	5671	8.68	2.54	220 3-	27.00	59.52
FH4522Z-XG	39.60	2.43	TRI	F	10298	3017	5.70	1.67	22193	6503	9.30	2.72	10596	3105	6.52	1.91	19481	5708	8.74	2.56	460 3-	33.00	72.75
FH4524Z-XG	43.30	2.66	TRI	F	11173	3274	5.57	1.63	23706	6946	8.95	2.62	12040	3528	6.68	1.96	21428	6278	8.66	2.54	460 3-	33.00	72.75
FH4524Z-XN	43.30	2.66	CSR	F	11626	3406	5.48	1.61	23907	7005	8.77	2.57	12296	3603	6.49	1.90	21488	6296	8.51	2.49	208 -230 1-	29.00	63.93
FH4524Z-KZ	43.30	2.66	TRI	F	11647	3413	5.87	1.72	24712	7241	9.42	2.76	12551	3677	7.04	2.06	22337	6545	9.12	2.67	220 3-	30.00	66.14
FH4532Z-XG	50.60	3.11	TRI	F	14545	4262	5.98	1.75	28745	8422	9.11	2.67	15278	4476	7.04	2.06	25889	7585	8.76	2.57	460 3-	29.00	63.93
FH4532Z-XN	50.60	3.11	CSR	F	14554	4264	5.46	1.60	29394	8612	9.03	2.65	15097	4423	6.35	1.86	26226	7684	8.65	2.53	208 -230 1-	30.00	66.14
FH4532Z-KZ	50.60	3.11	TRI	F	14572	4270	5.80	1.70	29625	8680	9.13	2.68	14707	4309	6.46	1.89	25820	7565	8.52	2.50	220 3-	29.00	63.93
FH4538Z-KZ	63.00	3.87	TRI	F	18501	5421	5.71	1.67	36084	10573	8.70	2.55	19371	5676	6.70	1.96	32400	9493	8.35	2.45	220 3-	31.00	68.34
FH4538Z-XG	63.00	3.87	TRI	F	18903	5539	5.88	1.72	36868	10802	8.95	2.62	19792	5799	6.90	2.02	33104	9699	8.60	2.52	460 3-	31.00	68.34
FH4538Z-XN	63.00	3.87	CSR	F	19346	5668	5.78	1.69	37738	11057	8.89	2.60	20029	5868	6.76	1.98	33750	9889	8.57	2.51	208 -230 1-	30.00	66.14
FH4544Z-KZ	68.00	4.17	TRI	F	20528	6015	5.52	1.62	40037	11731	8.41	2.46	21493	6297	6.48	1.90	35949	10533	8.08	2.37	220 3-	30.00	66.14
FH4544Z-XG	68.00	4.17	TRI	F	20952	6139	5.64	1.65	40866	11974	8.59	2.52	21938	6428	6.62	1.94	36693	10751	8.25	2.42	460 3-	31.00	68.34





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546Z	90.20	5.54	TRI	F	20852	6110	5.25	1.54	44285	12976	7.93	2.32	23062	6755	6.28	1.84	40579	11886	7.72	2.26	440 3-	44.00	97.00
TAG4546Z	90.20	5.54	TRI	F	20852	6110	5.46	1.60	44285	12976	8.21	2.41	23062	6755	7.17	2.10	40579	11886	8.16	2.39	220 3-	44.00	97.00
TAG4553Z	100.70	6.18	TRI	F	24255	7107	5.24	1.54	50061	14668	7.82	2.29	26636	7802	6.25	1.83	45789	13412	7.58	2.22	440 3-	45.60	100.53
TAG4553Z	100.70	6.18	TRI	F	24255	7107	5.62	1.65	50061	14668	8.13	2.38	26636	7802	7.20	2.11	45789	13412	8.13	2.38	220 3-	45.60	100.53
TAG4561Z	112.50	6.91	TRI	F	26896	7881	5.33	1.56	55263	16192	7.69	2.25	29115	8528	6.69	1.96	50380	14757	7.68	2.25	220 3-	45.90	101.19
TAG4561Z	112.50	6.91	TRI	F	28474	8343	5.38	1.58	57375	16811	7.84	2.30	30641	8975	6.38	1.87	52026	15239	7.54	2.21	440 3-	46.00	101.41
TAG4568Z	124.40	7.64	TRI	F	33835	9914	5.55	1.63	65738	19261	8.01	2.35	35970	10536	6.55	1.92	59533	17438	7.75	2.27	440 3-	47.20	104.06
TAG4568Z	124.40	7.64	TRI	F	33835	9914	5.80	1.70	65738	19261	8.06	2.36	35970	10536	7.10	2.08	59533	17438	7.99	2.34	220 3-	447.20	985.90
TAG4573Z	134.80	8.28	TRI	F	34921	10232	5.40	1.58	69345	20318	7.56	2.22	37510	10987	6.69	1.96	63029	18462	7.54	2.21	220 3-	47.90	105.60
TAG4573Z	134.80	8.28	TRI	F	36733	10763	5.42	1.59	69713	20426	7.58	2.22	38725	11343	6.35	1.86	63183	18507	7.31	2.14	440 3-	48.00	105.82
TAG4581Z	145.00	8.90	TRI	F	39370	11535	5.21	1.53	73541	21548	7.32	2.14	41122	12045	6.08	1.78	66296	19419	7.07	2.07	440 3-	48.10	106.04
TAG4581Z	145.00	8.90	TRI	F	39648	11617	5.27	1.54	74319	21775	7.50	2.20	41579	12179	6.18	1.81	67246	19697	7.24	2.12	220 3-	48.10	106.04
TAGD4590Z	180.40	11.07	TRI	F	41704	12219	5.25	1.54	88570	25951	7.93	2.32	46123	13510	6.28	1.84	81158	23772	7.72	2.26	440 3-	94.00	207.23
TAGD4610Z	201.40	12.36	TRI	F	48509	14213	5.24	1.54	100122	29336	7.82	2.29	53272	15604	6.25	1.83	91577	26824	7.58	2.22	440 3-	85.00	187.39
TAGD4612Z	225.00	13.81	TRI	F	56948	16686	5.38	1.58	114750	33622	7.84	2.30	61285	17951	6.38	1.87	104052	30478	7.54	2.21	440 3-	100.00	220.46
TAGD4614Z	248.80	15.27	TRI	F	67669	19827	5.55	1.63	131476	38522	8.01	2.35	71940	21072	6.55	1.92	119063	34875	7.75	2.27	440 3-	103.00	227.07
TAGD4615Z	269.60	16.55	TRI	F	73467	21526	5.42	1.59	139427	40852	7.58	2.22	77450	22686	6.35	1.86	126362	37013	7.31	2.14	440 3-	105.00	231.48



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546Z	90.20	5.54	TRI	F	21409	6273	5.62	1.65	46304	13567	8.51	2.49	22402	6564	6.44	1.89	42137	12346	8.29	2.43	440 3-	44.00	97.00
TAG4546Z	90.20	5.54	TRI	F	21409	6273	5.72	1.68	46304	13567	8.73	2.56	22402	6564	7.15	2.09	42137	12346	8.70	2.55	220 3-	44.00	97.00
TAG4553Z	100.70	6.18	TRI	F	24836	7277	5.60	1.64	52317	15329	8.39	2.46	25827	7567	6.37	1.87	47535	13928	8.17	2.39	440 3-	45.60	100.53
TAG4553Z	100.70	6.18	TRI	F	24836	7277	5.90	1.73	52317	15329	8.58	2.51	25827	7567	7.25	2.12	47535	13928	8.60	2.52	220 3-	45.60	100.53
TAG4561Z	112.50	6.91	TRI	F	27569	8078	5.61	1.64	57927	16973	8.11	2.38	28266	8282	6.75	1.98	52433	15363	8.13	2.38	220 3-	45.90	101.19
TAG4561Z	112.50	6.91	TRI	F	29214	8560	5.75	1.68	59992	17578	8.39	2.46	29789	8728	6.52	1.91	54059	15839	8.12	2.38	440 3-	46.00	101.41
TAG4568Z	124.40	7.64	TRI	F	34660	10155	6.12	1.79	68559	20088	8.48	2.48	34963	10244	7.21	2.11	61760	18096	8.44	2.47	220 3-	447.20	985.90
TAG4568Z	124.40	7.64	TRI	F	34660	10155	5.93	1.74	68559	20088	8.56	2.51	34963	10244	6.70	1.96	61760	18096	8.30	2.43	440 3-	47.20	104.06
TAG4573Z	134.80	8.28	TRI	F	35642	10443	5.66	1.66	72668	21292	7.98	2.34	36330	10645	6.77	1.98	65610	19224	7.98	2.34	220 3-	47.90	105.60
TAG4573Z	134.80	8.28	TRI	F	37504	10989	5.78	1.69	72956	21376	8.11	2.38	37497	10987	6.48	1.90	65699	19250	7.85	2.30	440 3-	48.00	105.82
TAG4581Z	145.00	8.90	TRI	F	40240	11790	5.56	1.63	77025	22568	7.84	2.30	39864	11680	6.22	1.82	69018	20222	7.59	2.22	440 3-	48.10	106.04
TAG4581Z	145.00	8.90	TRI	F	40532	11876	5.63	1.65	77681	22761	8.05	2.36	40322	11814	6.32	1.85	69883	20476	7.78	2.28	220 3-	48.10	106.04
TAGD4590Z	180.40	11.07	TRI	F	42817	12545	5.62	1.65	92608	27134	8.51	2.49	44805	13128	6.44	1.89	84274	24692	8.29	2.43	440 3-	94.00	207.23
TAGD4610Z	201.40	12.36	TRI	F	49673	14554	5.60	1.64	104634	30658	8.39	2.46	51655	15135	6.37	1.87	95070	27856	8.17	2.39	440 3-	85.00	187.39
TAGD4612Z	225.00	13.81	TRI	F	58427	17119	5.75	1.68	119983	35155	8.39	2.46	59578	17456	6.52	1.91	108117	31678	8.12	2.38	440 3-	100.00	220.46
TAGD4614Z	248.80	15.27	TRI	F	69321	20311	5.93	1.74	137118	40176	8.56	2.51	69927	20489	6.70	1.96	123520	36191	8.30	2.43	440 3-	103.00	227.07
TAGD4615Z	269.60	16.55	TRI	F	75008	21977	5.78	1.69	145911	42752	8.11	2.38	74994	21973	6.48	1.90	131399	38500	7.85	2.30	440 3-	105.00	231.48





R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546Z	90.20	5.54	TRI	F	21334	6251	5.61	1.64	46257	13553	8.50	2.49	22340	6546	6.43	1.88	42045	12319	8.28	2.43	440 3-	44.00	97.00
TAG4546Z	90.20	5.54	TRI	F	21334	6251	5.70	1.67	46257	13553	8.72	2.55	22340	6546	7.13	2.09	42045	12319	8.68	2.54	220 3-	44.00	97.00
TAG4553Z	100.70	6.18	TRI	F	24753	7253	5.58	1.63	52266	15314	8.38	2.46	25759	7547	6.36	1.86	47434	13898	8.15	2.39	440 3-	45.60	100.53
TAG4553Z	100.70	6.18	TRI	F	24753	7253	5.88	1.72	52266	15314	8.57	2.51	25759	7547	7.23	2.12	47434	13898	8.59	2.52	220 3-	45.60	100.53
TAG4561Z	112.50	6.91	TRI	F	27481	8052	5.60	1.64	57870	16956	8.11	2.38	28193	8261	6.74	1.97	52319	15329	8.12	2.38	220 3-	45.90	101.19
TAG4561Z	112.50	6.91	TRI	F	29120	8532	5.74	1.68	59947	17564	8.39	2.46	29712	8706	6.51	1.91	53953	15808	8.11	2.38	440 3-	46.00	101.41
TAG4568Z	124.40	7.64	TRI	F	34556	10125	6.11	1.79	68516	20075	8.48	2.48	34877	10219	7.20	2.11	61646	18062	8.43	2.47	220 3-	447.20	985.90
TAG4568Z	124.40	7.64	TRI	F	34556	10125	5.92	1.73	68516	20075	8.55	2.51	34877	10219	6.69	1.96	61646	18062	8.29	2.43	440 3-	47.20	104.06
TAG4573Z	134.80	8.28	TRI	F	35536	10412	5.65	1.66	72602	21272	7.98	2.34	36241	10619	6.76	1.98	65473	19184	7.96	2.33	220 3-	47.90	105.60
TAG4573Z	134.80	8.28	TRI	F	37402	10959	5.76	1.69	72900	21360	8.11	2.38	37411	10961	6.47	1.90	65570	19212	7.84	2.30	440 3-	48.00	105.82
TAG4581Z	145.00	8.90	TRI	F	40134	11759	5.55	1.63	76973	22553	7.84	2.30	39775	11654	6.21	1.82	68888	20184	7.58	2.22	440 3-	48.10	106.04
TAG4581Z	145.00	8.90	TRI	F	40422	11844	5.62	1.65	77628	22745	8.04	2.36	40230	11787	6.31	1.85	69750	20437	7.77	2.28	220 3-	48.10	106.04
TAGD4590Z	180.40	11.07	TRI	F	42667	12501	5.61	1.64	92513	27106	8.50	2.49	44680	13091	6.43	1.88	84090	24638	8.28	2.43	440 3-	94.00	207.23
TAGD4610Z	201.40	12.36	TRI	F	49507	14506	5.58	1.63	104533	30628	8.38	2.46	51517	15094	6.36	1.86	94868	27796	8.15	2.39	440 3-	85.00	187.39
TAGD4612Z	225.00	13.81	TRI	F	58239	17064	5.74	1.68	119894	35129	8.39	2.46	59425	17412	6.51	1.91	107906	31616	8.11	2.38	440 3-	100.00	220.46
TAGD4614Z	248.80	15.27	TRI	F	69112	20250	5.92	1.73	137032	40150	8.55	2.51	69755	20438	6.69	1.96	123292	36125	8.29	2.43	440 3-	103.00	227.07
TAGD4615Z	269.60	16.55	TRI	F	74805	21918	5.76	1.69	145800	42719	8.11	2.38	74823	21923	6.47	1.90	131140	38424	7.84	2.30	440 3-	105.00	231.48



R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546Z	90.20	5.54	TRI	F	20882	6118	5.34	1.56	45194	13242	8.09	2.37	22642	6634	6.28	1.84	40813	11958	7.78	2.28	440 3-	44.00	97.00
TAG4546Z	90.20	5.54	TRI	F	20882	6118	5.46	1.60	45194	13242	8.32	2.44	22642	6634	7.02	2.06	40813	11958	8.18	2.40	220 3-	44.00	97.00
TAG4553Z	100.70	6.18	TRI	F	24258	7108	5.32	1.56	51075	14965	7.98	2.34	26136	7658	6.22	1.82	46056	13494	7.67	2.25	440 3-	45.60	100.53
TAG4553Z	100.70	6.18	TRI	F	24258	7108	5.63	1.65	51075	14965	8.20	2.40	26136	7658	7.10	2.08	46056	13494	8.12	2.38	220 3-	45.60	100.53
TAG4561Z	112.50	6.91	TRI	F	26930	7890	5.35	1.57	56497	16554	7.75	2.27	28606	8382	6.61	1.94	50755	14871	7.67	2.25	220 3-	45.90	101.19
TAG4561Z	112.50	6.91	TRI	F	28519	8356	5.46	1.60	58595	17168	8.00	2.34	30140	8831	6.37	1.87	52399	15353	7.63	2.24	440 3-	46.00	101.41
TAG4568Z	124.40	7.64	TRI	F	33873	9925	5.84	1.71	67035	19641	8.12	2.38	35401	10372	7.05	2.07	59920	17557	7.97	2.34	220 3-	447.20	985.90
TAG4568Z	124.40	7.64	TRI	F	33873	9925	5.64	1.65	67035	19641	8.16	2.39	35401	10372	6.54	1.92	59920	17557	7.80	2.29	440 3-	47.20	104.06
TAG4573Z	134.80	8.28	TRI	F	34885	10221	5.42	1.59	70888	20770	7.63	2.24	36827	10790	6.63	1.94	63527	18613	7.52	2.20	220 3-	47.90	105.60
TAG4573Z	134.80	8.28	TRI	F	36733	10763	5.50	1.61	71218	20867	7.72	2.26	38044	11147	6.33	1.85	63659	18652	7.38	2.16	440 3-	48.00	105.82
TAG4581Z	145.00	8.90	TRI	F	39407	11546	5.29	1.55	75186	22029	7.47	2.19	40448	11851	6.08	1.78	66873	19594	7.13	2.09	440 3-	48.10	106.04
TAG4581Z	145.00	8.90	TRI	F	39688	11629	5.35	1.57	75872	22230	7.66	2.24	40895	11982	6.17	1.81	67744	19849	7.31	2.14	220 3-	48.10	106.04
TAGD4590Z	180.40	11.07	TRI	F	41765	12237	5.34	1.56	90387	26483	8.09	2.37	45283	13268	6.28	1.84	81627	23917	7.78	2.28	440 3-	94.00	207.23
TAGD4610Z	201.40	12.36	TRI	F	48516	14215	5.32	1.56	102151	29930	7.98	2.34	52271	15315	6.22	1.82	92111	26989	7.67	2.25	440 3-	85.00	187.39
TAGD4612Z	225.00	13.81	TRI	F	57038	16712	5.46	1.60	117190	34337	8.00	2.34	60279	17662	6.37	1.87	104799	30706	7.63	2.24	440 3-	100.00	220.46
TAGD4614Z	248.80	15.27	TRI	F	67746	19850	5.64	1.65	134070	39283	8.16	2.39	70801	20745	6.54	1.92	119841	35113	7.80	2.29	440 3-	103.00	227.07
TAGD4615Z	269.60	16.55	TRI	F	73467	21526	5.50	1.61	142436	41734	7.72	2.26	76088	22294	6.33	1.85	127317	37304	7.38	2.16	440 3-	105.00	231.48





R-455A R-454C

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A)								ENI2900 (R-455A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4480P-TZ	15.20	0.93	TRI	F	4698	1376	5.50	1.61	8876	2600	8.02	2.35	4493	1316	5.84	1.71	7883	2309	7.61	2.23	440 3-	19.30	42.55
AJ4510P-TZ	18.30	1.12	TRI	F	6135	1797	5.77	1.69	11075	3244	7.89	2.31	5828	1707	6.08	1.78	9846	2884	7.51	2.20	440 3-	19.20	42.33
AJ4513P-TZ	24.20	1.49	TRI	F	7282	2133	5.84	1.71	13926	4079	8.33	2.44	6941	2033	6.21	1.82	12362	3621	7.99	2.34	440 3-	20.50	45.19
AJ4517P-TZ	25.95	1.59	TRI	F	8279	2425	5.91	1.73	15131	4432	8.23	2.41	7989	2340	6.38	1.87	13543	3967	7.95	2.33	440 3-	19.90	43.87
AJ4517P-KZ	25.95	1.59	TRI	F	8525	2497	6.21	1.82	15790	4625	8.71	2.55	8644	2532	7.00	2.05	14475	4240	8.57	2.51	220 3-	21.10	46.52
AJ4519P-TZ	34.45	2.11	TRI	F	10618	3110	5.74	1.68	18890	5533	7.75	2.27	10088	2955	6.08	1.78	16848	4935	7.44	2.18	440 3-	21.00	46.30
AJ4519P-KZ	34.45	2.11	TRI	F	10618	3110	5.87	1.72	19310	5656	8.19	2.40	10095	2957	6.21	1.82	17217	5043	7.78	2.28	220 3-	21.80	48.06



R-455A R-454C

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C)								ENI2900 (R-454C)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ4480P-TZ	15.20	0.93	TRI	F	4308	1262	5.64	1.65	8093	2371	8.07	2.36	3998	1171	5.79	1.70	7031	2060	7.49	2.19	440 3-	19.30	42.55
AJ4510P-TZ	18.30	1.12	TRI	F	5664	1660	5.78	1.69	10217	2994	7.95	2.33	5239	1535	5.96	1.75	8879	2602	7.40	2.17	440 3-	19.20	42.33
AJ4513P-TZ	24.20	1.49	TRI	F	6331	1855	5.54	1.62	12369	3624	8.19	2.40	5886	1725	5.75	1.68	10715	3139	7.62	2.23	440 3-	20.50	45.19
AJ4517P-TZ	25.95	1.59	TRI	F	7831	2294	6.23	1.83	14169	4152	8.55	2.51	7311	2142	6.48	1.90	12380	3627	8.02	2.35	440 3-	19.90	43.87
AJ4517P-KZ	25.95	1.59	TRI	F	8353	2447	6.75	1.98	14993	4393	9.18	2.69	7794	2284	6.99	2.05	13125	3846	8.62	2.53	220 3-	21.10	46.52
AJ4519P-TZ	34.45	2.11	TRI	F	9278	2718	5.39	1.58	16228	4755	7.37	2.16	8459	2478	5.47	1.60	14019	4108	6.80	1.99	440 3-	21.00	46.30
AJ4519P-KZ	34.45	2.11	TRI	F	9883	2896	6.05	1.77	17867	5235	8.39	2.46	9088	2663	6.18	1.81	15573	4563	7.80	2.29	220 3-	21.80	48.06





R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C)								ENI2900 (R-454C)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522P-KZ	39.60	2.43	TRI	F	10299	3018	6.53	1.91	21184	6207	10.60	3.11	9827	2879	6.87	2.01	18462	5409	9.80	2.87	220 3-	28.10	61.95
FH4522P-XG	39.60	2.43	TRI	F	10941	3206	7.50	2.20	22279	6528	11.00	3.22	10522	3083	7.84	2.30	19588	5739	10.30	3.02	460 3-	33.00	72.75
FH4524P-KZ	43.30	2.66	TRI	F	12572	3684	7.14	2.09	24220	7096	10.30	3.02	11762	3446	7.46	2.19	21200	6212	9.67	2.83	220 3-	28.10	61.95
FH4524P-XG	43.30	2.66	TRI	F	12535	3673	7.21	2.11	24317	7125	10.70	3.14	11700	3428	7.51	2.20	21106	6184	9.92	2.91	460 3-	33.00	72.75
FH4532P-XG	50.60	3.11	TRI	F	14973	4387	7.42	2.17	28297	8291	10.70	3.14	13843	4056	7.64	2.24	24762	7255	10.00	2.93	460 3-	29.00	63.93
FH4532P-KZ	50.60	3.11	TRI	F	15942	4671	7.38	2.16	29385	8610	10.70	3.14	14509	4251	7.50	2.20	25569	7492	9.87	2.89	220 3-	28.10	61.95
FH4538P-XG	63.00	3.87	TRI	F	20971	6145	7.72	2.26	37503	10988	10.80	3.16	18976	5560	7.84	2.30	32748	9595	10.10	2.96	460 3-	31.00	68.34
FH4538P-KZ	63.00	3.87	TRI	F	21538	6311	7.91	2.32	39129	11465	11.00	3.22	19483	5709	7.95	2.33	34065	9981	10.20	2.99	220 3-	31.10	68.56
FH4544P-XG	68.00	4.17	TRI	F	22554	6608	7.21	2.11	40595	11894	10.10	2.96	20747	6079	7.48	2.19	35413	10376	9.47	2.77	460 3-	31.00	68.34

R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A)								ENI2900 (R-455A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
FH4522P-KZ	39.60	2.43	TRI	F	11031	3231	6.32	1.85	22683	6644	10.21	2.99	10850	3178	6.79	1.99	20255	5933	9.63	2.82	220 3-	28.10	61.95
FH4522P-XG	39.60	2.43	TRI	F	11672	3419	7.17	2.10	23785	6967	10.48	3.07	11601	3398	7.72	2.26	21443	6281	10.04	2.94	460 3-	33.00	72.75
FH4524P-KZ	43.30	2.66	TRI	F	13414	3929	6.83	2.00	25844	7570	9.83	2.88	12960	3796	7.34	2.15	23191	6793	9.42	2.76	220 3-	28.10	61.95
FH4524P-XG	43.30	2.66	TRI	F	13400	3925	6.90	2.02	26001	7616	10.14	2.97	12905	3780	7.41	2.17	23133	6776	9.70	2.84	460 3-	33.00	72.75
FH4532P-XG	50.60	3.11	TRI	F	16001	4687	7.10	2.08	30115	8821	10.17	2.98	15308	4484	7.54	2.21	27046	7922	9.80	2.87	460 3-	29.00	63.93
FH4532P-KZ	50.60	3.11	TRI	F	17050	4994	7.07	2.07	31310	9171	10.21	2.99	16036	4697	7.41	2.17	27947	8186	9.66	2.83	220 3-	28.10	61.95
FH4538P-XG	63.00	3.87	TRI	F	22348	6546	7.37	2.16	39855	11674	10.28	3.01	20955	6138	7.75	2.27	35734	10467	9.87	2.89	460 3-	31.00	68.34
FH4538P-KZ	63.00	3.87	TRI	F	22969	6728	7.58	2.22	41661	12203	10.45	3.06	21532	6307	7.85	2.30	37240	10908	9.93	2.91	220 3-	31.10	68.56
FH4544P-XG	68.00	4.17	TRI	F	25188	7378	7.03	2.06	44785	13118	9.83	2.88	23748	6956	7.54	2.21	39862	11676	9.46	2.77	460 3-	31.00	68.34





R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-454C)								ENI2900 (R-454C)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4546P-TZ	90.20	5.54	TRI	F	17875	5237	5.86	1.72	40508	11869	8.88	2.60	17430	5107	6.15	1.80	35348	10357	8.25	2.42	440 3-	43.00	94.80
AG4553P-TZ	100.70	6.18	TRI	F	24718	7242	6.46	1.89	47544	13930	9.24	2.71	23504	6887	6.71	1.97	41728	12226	8.63	2.53	440 3-	45.00	99.21
AG4561P-TZ	112.50	6.91	TRI	F	29035	8507	6.63	1.94	55502	16262	9.29	2.72	26640	7806	6.74	1.97	47765	13995	8.55	2.51	440 3-	46.00	101.41
AG4568P-TZ	124.40	7.64	TRI	F	34490	10106	6.84	2.00	62289	18251	9.42	2.76	31855	9334	7.05	2.07	54239	15892	8.77	2.57	440 3-	47.00	103.62
AG4573P-TZ	134.80	8.28	TRI	F	37334	10939	6.67	1.95	66347	19440	8.93	2.62	34155	10007	6.83	2.00	57732	16915	8.30	2.43	440 3-	49.00	108.03
AG4581P-TZ	145.00	8.90	TRI	F	41708	12220	6.68	1.96	73607	21567	8.85	2.59	37975	11127	6.79	1.99	63700	18664	8.21	2.41	440 3-	49.00	108.03



R-454C R-455A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-455A)								ENI2900 (R-455A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AG4546P-TZ	90.20	5.54	TRI	F	19945	5844	5.92	1.73	45880	13443	8.94	2.62	19652	5758	6.29	1.84	40176	11772	8.38	2.46	440 3-	43.00	94.80
AG4553P-TZ	100.70	6.18	TRI	F	26825	7860	6.66	1.95	54028	15830	9.57	2.80	25633	7510	6.95	2.04	47322	13865	8.96	2.63	440 3-	45.00	99.21
AG4561P-TZ	112.50	6.91	TRI	F	32164	9424	6.68	1.96	62723	18378	9.35	2.74	29926	8768	6.88	2.02	54234	15891	8.69	2.55	440 3-	46.00	101.41
AG4568P-TZ	124.40	7.64	TRI	F	38157	11180	6.88	2.02	69744	20435	9.41	2.76	35735	10470	7.20	2.11	61065	17892	8.85	2.59	440 3-	47.00	103.62
AG4573P-TZ	134.80	8.28	TRI	F	41180	12066	6.69	1.96	74503	21829	8.93	2.62	38190	11190	6.95	2.04	65155	19090	8.39	2.46	440 3-	49.00	108.03
AG4581P-TZ	145.00	8.90	TRI	F	45932	13458	6.70	1.96	82795	24259	8.87	2.60	42446	12437	6.91	2.02	72023	21103	8.31	2.43	440 3-	49.00	108.03



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ9480X	15.2	0.93	TRI	F	2534	742	5.13	1.50	5576	1634	8.66	2.54	2335	684	5.27	1.54	4773	1398	7.95	2.33	440 3-	19.80	43.65
TAJ9510X	18.3	1.12	TRI	F	3520	1031	6.07	1.78	6955	2038	8.81	2.58	3161	926	6.05	1.77	5937	1740	8.11	2.38	440 3-	20.00	44.09
TAJ9513X	24.2	1.49	TRI	F	4490	1316	5.75	1.68	9123	2673	8.44	2.47	4052	1187	5.92	1.73	7796	2284	7.83	2.29	440 3-	19.90	43.87
TAJ4517X	25.95	1.59	TRI	F	4814	1411	6.18	1.81	9782	2866	8.99	2.63	4345	1273	6.22	1.82	8359	2449	8.30	2.43	440 3-	20.00	44.09
TAJ4519X	34.45	2.11	TRI	F	6961	2040	6.27	1.84	13060	3827	8.48	2.48	6125	1795	6.28	1.84	11173	3274	7.88	2.31	440 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ9480X	15.2	0.93	TRI	F	2534	742	5.13	1.50	5576	1634	8.66	2.54	2335	684	5.27	1.54	4773	1398	7.95	2.33	440 3-	19.80	43.65
TAJ9510X	18.3	1.12	TRI	F	3520	1031	6.07	1.78	6955	2038	8.81	2.58	3161	926	6.05	1.77	5937	1740	8.11	2.38	440 3-	20.00	44.09
TAJ9513X	24.2	1.49	TRI	F	4490	1316	5.75	1.68	9123	2673	8.44	2.47	4052	1187	5.92	1.73	7796	2284	7.83	2.29	440 3-	19.90	43.87
TAJ4517X	25.95	1.59	TRI	F	4814	1411	6.18	1.81	9782	2866	8.99	2.63	4345	1273	6.22	1.82	8359	2449	8.30	2.43	440 3-	20.00	44.09
TAJ4519X	34.45	2.11	TRI	F	6961	2040	6.27	1.84	13060	3827	8.48	2.48	6125	1795	6.28	1.84	11173	3274	7.88	2.31	440 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ9480X	15.2	0.93	TRI	F	2356	690	4.50	1.32	5295	1551	7.74	2.27	2503	733	5.30	1.55	4831	1415	7.57	2.22	440 3-	19.80	43.65
TAJ9510X	18.3	1.12	TRI	F	3275	960	5.33	1.56	6607	1936	7.87	2.31	3388	993	6.08	1.78	6010	1761	7.72	2.26	440 3-	20.00	44.09
TAJ9513X	24.2	1.49	TRI	F	4177	1224	5.05	1.48	8666	2539	7.54	2.21	4343	1272	5.95	1.74	7891	2312	7.46	2.19	440 3-	19.90	43.87
TAJ4517X	25.95	1.59	TRI	F	4479	1312	5.43	1.59	9293	2723	8.03	2.35	4657	1365	6.25	1.83	8462	2479	7.91	2.32	440 3-	20.00	44.09
TAJ4519X	34.45	2.11	TRI	F	6480	1899	5.51	1.61	12412	3637	7.58	2.22	6563	1923	6.31	1.85	11312	3314	7.51	2.20	440 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ9480X	15.2	0.93	TRI	F	4492	1316	4.74	1.39	8593	2518	7.13	2.09	3668	1075	4.34	1.27	6674	1955	5.95	1.74	440 3-	19.80	43.65
TAJ9510X	18.3	1.12	TRI	F	5639	1652	4.65	1.36	10476	3069	6.74	1.97	4569	1339	4.25	1.25	8139	2385	5.64	1.65	440 3-	20.00	44.09
TAJ9513X	24.2	1.49	TRI	F	6684	1958	4.77	1.40	12837	3761	7.07	2.07	5476	1604	4.43	1.30	10000	2930	5.94	1.74	440 3-	19.90	43.87
TAJ4517X	25.95	1.59	TRI	F	7806	2287	4.91	1.44	14637	4289	7.16	2.10	6386	1871	4.51	1.32	11395	3339	6.00	1.76	440 3-	20.00	44.09
TAJ4519X	34.45	2.11	TRI	F	9770	2863	4.76	1.39	17873	5237	6.86	2.01	7937	2326	4.35	1.27	13896	4072	5.71	1.67	440 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ9480X	15.2	0.93	TRI	F	4584	1343	5.06	1.48	8986	2633	7.66	2.24	4626	1355	5.78	1.69	8104	2374	7.48	2.19	440 3-	19.80	43.65
TAJ9510X	18.3	1.12	TRI	F	5752	1685	4.95	1.45	10933	3203	7.20	2.11	5759	1687	5.65	1.66	9865	2890	7.06	2.07	440 3-	20.00	44.09
TAJ9513X	24.2	1.49	TRI	F	6819	1998	5.07	1.49	13410	3929	7.55	2.21	6905	2023	5.88	1.72	12129	3554	7.43	2.18	440 3-	19.90	43.87
TAJ4517X	25.95	1.59	TRI	F	7956	2331	5.23	1.53	15257	4470	7.64	2.24	8046	2357	6.00	1.76	13798	4043	7.50	2.20	440 3-	20.00	44.09
TAJ4519X	34.45	2.11	TRI	F	9948	2915	5.07	1.49	18622	5456	7.33	2.15	9986	2926	5.78	1.69	16818	4928	7.15	2.09	440 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ9480X	15.2	0.93	TRI	F	4571	1339	5.05	1.48	8979	2631	7.65	2.24	4615	1352	5.77	1.69	8088	2370	7.46	2.19	440 3-	19.80	43.65
TAJ9510X	18.3	1.12	TRI	F	5736	1681	4.94	1.45	10925	3201	7.19	2.11	5746	1684	5.64	1.65	9846	2885	7.05	2.07	440 3-	20.00	44.09
TAJ9513X	24.2	1.49	TRI	F	6800	1992	5.06	1.48	13399	3926	7.54	2.21	6889	2018	5.87	1.72	12104	3546	7.41	2.17	440 3-	19.90	43.87
TAJ4517X	25.95	1.59	TRI	F	7934	2325	5.22	1.53	15246	4467	7.63	2.24	8027	2352	5.99	1.76	13772	4035	7.49	2.19	440 3-	20.00	44.09
TAJ4519X	34.45	2.11	TRI	F	9922	2907	5.06	1.48	18610	5453	7.33	2.15	9964	2919	5.77	1.69	16787	4919	7.14	2.09	440 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ9480X	15.2	0.93	TRI	F	4489	1315	4.81	1.41	8774	2571	7.28	2.13	4694	1375	5.64	1.65	7853	2301	7.01	2.05	440 3-	19.80	43.65
TAJ9510X	18.3	1.12	TRI	F	5637	1652	4.72	1.38	10683	3130	6.86	2.01	5846	1713	5.52	1.62	9567	2803	6.64	1.95	440 3-	20.00	44.09
TAJ9513X	24.2	1.49	TRI	F	6678	1957	4.83	1.42	13097	3837	7.19	2.11	7005	2052	5.74	1.68	11757	3445	6.98	2.05	440 3-	19.90	43.87
TAJ4517X	25.95	1.59	TRI	F	7796	2284	4.98	1.46	14913	4370	7.28	2.13	8167	2393	5.86	1.72	13386	3922	7.06	2.07	440 3-	20.00	44.09
TAJ4519X	34.45	2.11	TRI	F	9755	2858	4.82	1.41	18207	5335	6.99	2.05	10145	2972	5.65	1.66	16321	4782	6.72	1.97	440 3-	20.50	45.19



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE (R-134a)								ENI2900 (R-134a)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	12798	3750	6.50	1.90	28925	8475	9.66	2.83	10738	3146	6.35	1.86	24484	7174	8.96	2.63	440 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	16511	4838	6.91	2.02	34517	10113	9.72	2.85	14353	4205	6.95	2.04	29446	8628	9.06	2.65	440 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	18892	5535	6.93	2.03	39016	11432	9.66	2.83	16537	4845	6.98	2.05	33315	9761	9.02	2.64	440 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	19712	5776	6.62	1.94	41957	12293	9.11	2.67	17217	5045	6.70	1.96	35648	10445	8.52	2.50	440 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	23036	6750	6.44	1.89	45805	13421	8.65	2.53	20374	5970	6.33	1.85	38965	11417	7.90	2.31	440 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	24675	7230	6.43	1.88	49219	14421	8.65	2.53	21834	6397	6.32	1.85	41862	12266	7.90	2.31	440 3-	48.10	106.04



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-513A)								ENI2900 (R-513A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	10722	3142	5.17	1.51	26963	7900	8.52	2.50	11592	3396	5.90	1.73	24508	7181	8.19	2.40	440 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	13353	3912	5.31	1.56	31137	9123	8.47	2.48	14052	4117	6.02	1.76	28174	8255	8.14	2.39	440 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	15575	4563	5.32	1.56	34195	10019	8.17	2.39	15991	4685	5.95	1.74	30830	9033	7.83	2.29	440 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	18027	5282	5.49	1.61	38480	11275	8.12	2.38	18357	5379	6.17	1.81	34666	10157	7.83	2.29	440 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	20144	5902	5.42	1.59	41874	12269	7.79	2.28	20503	6007	6.07	1.78	37743	11059	7.51	2.20	440 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	22963	6728	5.65	1.66	46764	13702	7.74	2.27	23400	6856	6.35	1.86	42377	12416	7.53	2.21	440 3-	48.10	106.04





R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-404A)								ENI2900 (R-404A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency						Capacity		Efficiency								
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	20852	6110	5.25	1.54	44285	12976	7.93	2.32	17687	5182	4.82	1.41	34727	10175	6.60	1.93	440 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	24255	7107	5.24	1.54	50061	14668	7.82	2.29	20428	5985	4.78	1.40	39186	11481	6.50	1.90	440 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	28474	8343	5.38	1.58	57375	16811	7.84	2.30	23501	6886	4.90	1.44	44524	13046	6.47	1.90	440 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	33835	9914	5.55	1.63	65738	19261	8.01	2.35	27588	8083	5.03	1.47	50949	14928	6.62	1.94	440 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	36733	10763	5.42	1.59	69713	20426	7.58	2.22	29700	8702	4.87	1.43	54072	15843	6.26	1.83	440 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	39370	11535	5.21	1.53	73541	21548	7.32	2.14	31538	9241	4.67	1.37	56737	16624	6.05	1.77	440 3-	48.10	106.04



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-448A)								ENI2900 (R-448A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency						Capacity		Efficiency								
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	21409	6273	5.62	1.65	46304	13567	8.51	2.49	22402	6564	6.44	1.89	42137	12346	8.29	2.43	440 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	24836	7277	5.60	1.64	52317	15329	8.39	2.46	25827	7567	6.37	1.87	47535	13928	8.17	2.39	440 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	29214	8560	5.75	1.68	59992	17578	8.39	2.46	29789	8728	6.52	1.91	54059	15839	8.12	2.38	440 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	34660	10155	5.93	1.74	68559	20088	8.56	2.51	34963	10244	6.70	1.96	61760	18096	8.30	2.43	440 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	37504	10989	5.78	1.69	72956	21376	8.11	2.38	37497	10987	6.48	1.90	65699	19250	7.85	2.30	440 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	40240	11790	5.56	1.63	77025	22568	7.84	2.30	39864	11680	6.22	1.82	69018	20222	7.59	2.22	440 3-	48.10	106.04



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-449A)								ENI2900 (R-449A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency						Capacity		Efficiency								
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	21334	6251	5.61	1.64	46257	13553	8.50	2.49	22340	6546	6.43	1.88	42045	12319	8.28	2.43	440 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	24753	7253	5.58	1.63	52266	15314	8.38	2.46	25759	7547	6.36	1.86	47434	13898	8.15	2.39	440 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	29120	8532	5.74	1.68	59947	17564	8.39	2.46	29712	8706	6.51	1.91	53953	15808	8.11	2.38	440 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	34556	10125	5.92	1.73	68516	20075	8.55	2.51	34877	10219	6.69	1.96	61646	18062	8.29	2.43	440 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	37402	10959	5.76	1.69	72900	21360	8.11	2.38	37411	10961	6.47	1.90	65570	19212	7.84	2.30	440 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	40134	11759	5.55	1.63	76973	22553	7.84	2.30	39775	11654	6.21	1.82	68888	20184	7.58	2.22	440 3-	48.10	106.04



R-134a R-513A R-404A R-448A R-449A R-452A

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE (R-452A)								ENI2900 (R-452A)								Voltage (V)	Weight	
					-6.7°C (+20°F)								-10°C (+14°C)										
					Capacity		Efficiency						Capacity		Efficiency								
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG4546X	90.20	5.54	TRI	F	20882	6118	5.34	1.56	45194	13242	8.09	2.37	22642	6634	6.28	1.84	40813	11958	7.78	2.28	440 3-	44.00	97.00
TAG4553X	100.70	6.18	TRI	F	24258	7108	5.32	1.56	51075	14965	7.98	2.34	26136	7658	6.22	1.82	46056	13494	7.67	2.25	440 3-	45.60	100.53
TAG4561X	112.50	6.91	TRI	F	28519	8356	5.46	1.60	58595	17168	8.00	2.34	30140	8831	6.37	1.87	52399	15353	7.63	2.24	440 3-	46.00	101.41
TAG4568X	124.40	7.64	TRI	F	33873	9925	5.64	1.65	67035	19641	8.16	2.39	35401	10372	6.54	1.92	59920	17557	7.80	2.29	440 3-	47.20	104.06
TAG4573X	134.80	8.28	TRI	F	36733	10763	5.50	1.61	71218	20867	7.72	2.26	38044	11147	6.33	1.85	63659	18652	7.38	2.16	440 3-	48.00	105.82
TAG4581X	145.00	8.90	TRI	F	39407	11546	5.29	1.55	75186	22029	7.47	2.19	40448	11851	6.08	1.78	66873	19594	7.13	2.09	440 3-	48.10	106.04





R-22

M/HBP - Medium / High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDAR TE								ENI2900								Voltage (V)	Weight	
					-6.7°C (+20°F)				+7.2°C (+45°F)				-10°C (+14°C)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAJ9480T-TZ	15.20	0.93	TRI	F	4794	1405	5.38	1.58	8429	2470	7.47	2.19	4917	1441	6.12	1.79	7916	2319	7.54	2.21	440 3-	19.40	42.77
CAJ9480T-XA	15.20	0.93	CSR	F	4794	1405	5.59	1.64	8429	2470	7.86	2.30	4917	1441	6.32	1.85	7916	2319	7.93	2.32	115 1-	20.60	45.41
CAJ9480T-HZ	15.20	0.93	CSR	F	4794	1405	5.60	1.64	8429	2470	7.93	2.32	4917	1441	6.29	1.84	7916	2319	7.99	2.34	208 - 220 1-	20.60	45.41
CAJ9510T-HZ	18.30	1.12	CSR	F	5807	1701	5.38	1.58	10054	2946	7.40	2.17	5977	1751	6.10	1.79	9464	2773	7.49	2.19	208 - 220 1-	21.00	46.30
TAJ9510T-TZ	18.30	1.12	TRI	F	5807	1701	5.64	1.65	10054	2946	7.45	2.18	5977	1751	6.49	1.90	9464	2773	7.57	2.22	440 3-	19.60	43.21
CAJ9510T-XA	18.30	1.12	CSR	F	5807	1701	5.52	1.62	10054	2946	7.53	2.21	5977	1751	6.24	1.83	9464	2773	7.65	2.24	115 1-	21.80	48.06
TAJ9510T-KZ	18.30	1.12	TRI	F	5807	1701	5.77	1.69	10054	2946	8.01	2.35	5977	1751	6.56	1.92	9464	2773	8.09	2.37	220 3-	19.10	42.11
TAJ9513T-TZ	24.20	1.49	TRI	F	6948	2036	5.61	1.64	13011	3812	8.22	2.41	6859	2010	6.40	1.88	12046	3529	8.26	2.42	440 3-	19.30	42.55
CAJ9513T-HZ	24.20	1.49	CSR	F	7247	2123	5.71	1.67	13368	3917	8.19	2.40	7097	2079	6.38	1.87	12311	3607	8.14	2.39	208 - 220 1-	22.20	48.94
TAJ4517T-TZ	25.95	1.59	TRI	F	8139	2385	5.59	1.64	14520	4254	7.78	2.28	8209	2405	6.24	1.83	13668	4005	7.89	2.31	440 3-	19.30	42.55
CAJ4517T-HZ	25.95	1.59	CSR	F	8139	2385	5.76	1.69	14520	4254	8.17	2.39	8209	2405	6.36	1.86	13668	4005	8.27	2.42	208 - 220 1-	24.00	52.91
TAJ4517T-KZ	25.95	1.59	TRI	F	8139	2385	5.96	1.75	14520	4254	8.31	2.43	8209	2405	6.74	1.97	13668	4005	8.38	2.46	220 3-	20.50	45.19
TAJ4519T-TZ	34.50	2.12	TRI	F	10968	3214	5.88	1.72	19088	5593	7.89	2.31	11343	3323	6.77	1.98	17950	5259	7.99	2.34	440 3-	20.20	44.53
TAJ4519T-KZ	34.45	2.11	TRI	F	10968	3214	5.79	1.70	19103	5597	7.79	2.28	11329	3319	6.65	1.95	17949	5259	7.88	2.31	220 3-	21.20	46.74



AIR-CONDITIONER | HEAT PUMP

HBP



R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	STANDARD TE				ENI2900				Voltage (V)	Weight	
					+7,2°C (+45°F)				+5°C (+41°F)						
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ5510C-CZ	18.60	1.14	PSC / CSR	F	8474	2482	7.20	2.11	8456	2477	7.72	2.26	230 1-	18	39.02
AJ5515C-CZ	25.95	1.59	PSC / CSR	F	13082	3832	7.10	2.08	13018	3813	7.54	2.21	230 1-	19	42.33
TAJ5515C-TZ	25.95	1.59	TRI	F	13257	3883	7.20	2.11	13274	3888	7.75	2.27	440 3-	19	42.55
TAJ5519C-KZ	34.45	2.11	TRI	F	17650	5170	7.58	2.22	17790	5211	8.23	2.41	220 3-	22	47.84
TAJ5519C-TZ	34.45	2.11	TRI	F	17657	5172	7.17	2.10	17797	5213	7.78	2.28	440 3-	21	46.30



R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE				Voltage (V)	Weight	
					+7.2°C (+45°F)						
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AWZ5524CNA	45.80	2.80	PSC	F	24600	7210	10.10	2.96	230 1-	28	61.73
AWZ5535CNA	63.00	3.85	PSC	F	36100	10580	10.03	2.94	230 1-	31	68.34





R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	STANDARD TE +7,2°C (+45°F)				ENI2900 +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG5546C	90.20	5.54	TRI	F	41039	12024	8.10	2.37	36444	10678	7.83	2.29	440 3-	43	93.70
TAG5553C	100.70	6.18	TRI	F	49605	14534	9.16	2.68	44571	13059	8.85	2.59	220 3-	45	99.21
TAG5553C	100.70	6.18	TRI	F	49814	14596	8.36	2.45	44492	13036	8.04	2.36	440 3-	44	95.90
TAG5561C	112.50	6.91	TRI	F	56719	16619	8.45	2.48	50823	14891	8.25	2.42	440 3-	45	98.10
TAG5568C	124.40	7.64	TRI	F	62785	18396	8.06	2.36	56642	16596	7.91	2.32	440 3-	46	101.41
TAG5573C	134.80	8.28	TRI	F	68808	20161	8.18	2.40	62156	18212	8.05	2.36	440 3-	46	101.41



R-410A

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F)				Voltage (V)	Weight	
					Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AW5513B-NA3G	19.54	1.20	PSC	F	13500	3956	10.25	3.00	230 1-	29	63.93
AW5517B-NA3G	22.33	1.37	PSC	F	16800	4924	10.66	3.12	230 1-	29	63.93
AW5520B-NA3G	25.61	1.57	PSC	F	20100	5890	10.52	3.08	230 1-	30	66.14
AW5522B-NA3G	27.81	1.71	PSC	F	22100	6477	10.50	3.07	208-230 1-	30	66.14
AW5525B-NA3G	30.56	1.88	PSC	F	25300	7414	10.53	3.08	230 1-	31	68.34
AW5526B-NA3G	31.67	1.94	PSC	F	26400	7737	10.50	3.08	230 1-	31	68.34
AW5528B-NA3G	32.79	2.01	PSC	F	28000	8206	10.50	3.07	230 1-	31	68.34





R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	STANDARD TE +7,2°C (+45°F)				ENI2900 +5°C (+41°F)				Voltage (V)	Weight	
					Capacity		Efficiency		Capacity		Efficiency				
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
AJ5510E-XA	18.60	1.14	CSR,PSC	F	9749	2856	7.97	2.34	8913	2612	7.85	2.30	115 1~	19	41.45
AJ5510E-HZ	18.60	1.14	PSC,CSR	F	9749	2856	8.04	2.36	8913	2612	7.93	2.32	208 - 220 1~	20	44.09
AJ5510E-CZ	18.60	1.14	PSC,CSR	F	9749	2856	8.34	2.44	8913	2612	8.23	2.41	230 1~	20	44.09
AJ5512E-XA	21.75	1.34	CSR,PSC	F	11244	3294	7.80	2.29	10300	3018	7.67	2.25	115 1~	19	41.67
AJ5512E-HZ	21.75	1.34	CSR,PSC	F	11590	3396	7.86	2.30	10697	3134	7.83	2.29	208 - 220 1~	20	44.09
AJ5512E-CZ	21.75	1.34	CSR,PSC	F	11590	3396	7.90	2.31	10697	3134	7.85	2.30	230 1~	20	44.09
AJ5513E-CZ	24.20	1.49	CSR,PSC	F	12805	3752	7.87	2.31	11858	3474	7.83	2.29	230 1~	19	42.55
AJ5513E-HZ	24.20	1.49	CSR,PSC	F	12805	3752	7.88	2.31	11858	3474	7.83	2.29	208 - 220 1~	20	42.99
AJ5515E-CZ	25.95	1.59	CSR	F	14474	4241	7.81	2.29	13447	3940	7.77	2.28	230 1~	19	42.77
TAJ5515E-TZ	25.95	1.59	TRI	F	14474	4241	7.82	2.29	13447	3940	7.80	2.29	440 3-	21	46.30
AJ5515E-HZ	25.95	1.59	CSR,PSC	F	14474	4241	7.89	2.31	13447	3940	7.85	2.30	208 - 220 1~	21	46.30
AJ5518E-HZ	32.70	2.01	CSR,PSC	F	18181	5327	7.63	2.24	16891	4949	7.61	2.23	208 - 220 1~	21	46.30
AJ5518E-CZ	32.70	2.01	CSR	F	18181	5327	7.64	2.24	16891	4949	7.60	2.23	230 1~	21	45.86
AJ5519E-HZ	34.45	2.11	CSR	F	19039	5578	7.55	2.21	17668	5177	7.53	2.21	208 - 220 1~	20	44.09
AJ5519E-CZ	34.45	2.11	CSR,PSC	F	19039	5578	7.72	2.26	17668	5177	7.70	2.26	230 1~	23	50.71
TAJ5519E-TZ	34.45	2.11	TRI	F	19039	5578	7.79	2.28	17668	5177	7.79	2.28	440 3-	21	46.96





R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
AWS4532ELZ	50.60	3.11	TRI	F	28300	8294	9.73	2.85	380 3~	28	61.73
AWS4532EKZ	50.60	3.11	TRI	F	29200	8558	10.12	2.97	220 3~	28	61.73
AWZ5530EXN	50.60	3.11	PSC	F	30300	8880	10.41	3.05	230 1~	28	61.73
AWS4532EXN	50.60	3.11	CSR	F	30900	9056	10.23	3.00	230 1~	29	63.93
AWZ5532EXN	54.30	3.33	PSC	F	32000	9379	10.00	2.93	230 1~	28	61.73
AWZ5535EXN	59.00	3.62	PSC	F	35000	10257	10.00	2.93	230 1~	30	66.14
AWS4538ELZ	63.00	3.87	TRI	F	36800	10785	9.62	2.82	380 3~	30	66.14
AWZ5538ETZ	63.00	3.87	TRI	F	37000	10834	9.93	3.31	440 3~	31	68.34
AWS4538EKZ	63.00	3.87	TRI	F	37800	11079	9.55	2.80	220 3~	30	66.14
AWZ5538EXN	63.00	3.87	PSC	F	38000	11137	10.00	2.93	230 1~	30	66.14
AWS4542EXG	68.00	4.17	TRI	F	42800	12543	10.20	2.89	460 3~	31	68.34
AWZ5542EXG	68.00	4.17	TRI	F	42800	12543	10.20	2.99	460 3~	29	63.93
AWZ5542EXN	68.00	4.17	CSR	F	42800	12543	10.20	2.99	230 1~	30	66.14



R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Venti-lation Appro-val Type	STANDARD TE +7,2°C (+45°F) Capacity		STANDARD TE +7,2°C (+45°F) Efficiency		ENI2900 +5°C (+41°F) Capacity		ENI2900 +5°C (+41°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP	Btu/h	W	EER	COP		kg	lb
TAG5546E	90.20	5.54	TRI	F	44903	13157	8.62	2.53	40725	11932	8.52	2.50	440 3~	43	93.70
TAG5546E	90.20	5.54	TRI	F	44903	13157	9.13	2.68	40725	11932	9.03	2.65	220 3~	43	93.70
AG5553E	100.70	6.18	CSR,PSC	F	51618	15124	8.57	2.51	46917	13747	8.52	2.50	230 1~	44	95.90
TAG5553E	100.70	6.18	TRI	F	51618	15124	9.06	2.65	46917	13747	8.99	2.63	440 3~	44	95.90
TAG5553E	100.70	6.18	TRI	F	51618	15124	9.23	2.70	46917	13747	9.13	2.68	220 3~	44	95.90
TAG5561E	112.50	6.91	TRI	F	59395	17403	8.80	2.58	54216	15885	8.74	2.56	440 3~	45	98.10
AG5561E	112.50	6.91	CSR,PSC	F	59395	17403	8.93	2.62	54216	15885	8.87	2.60	230 1~	45	98.10
TAG5561E	112.50	6.91	TRI	F	59395	17403	9.15	2.68	54216	15885	9.09	2.66	220 3~	45	98.10
TAG5568E	124.40	7.64	TRI	F	66546	19498	8.65	2.53	60684	17780	8.56	2.51	440 3~	46	101.41
TAG5568E	124.40	7.64	TRI	F	66546	19498	9.02	2.64	60684	17780	8.95	2.62	220 3~	46	101.41
TAG5573E	134.80	8.28	TRI	F	71134	20842	8.36	2.45	64762	18975	8.41	2.46	220 3~	46	101.41
TAG5573E	134.80	8.28	TRI	F	71134	20842	8.50	2.49	64762	18975	8.44	2.47	440 3~	46	101.41



R-134a

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RGA5454YXA	11.52	0.71	CSR / PSC	F	5550	1626	10.52	3.08	115	10	22.71
RGA5454YXD	11.52	0.71	CSR / PSC	F	5550	1626	10.71	3.14	208-230	10	22.93
RGA5470YXA	14.25	0.87	CSR / PSC	F	6850	2007	11.08	3.25	115	11	23.59
RGA5470YXD	14.25	0.87	CSR / PSC	F	6850	2007	11.16	3.27	208-230	11	23.59
RGA5485YXD	18.07	1.11	CSR / PSC	F	8700	2549	10.90	3.19	208-230	11	25.13



R-407C

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RGA5456CXA	7.95	0.49	PSC	F	5200	1524	9.90	2.90	115	11	23.59
RGA5467CXA	9.52	0.58	PSC	F	6250	1831	9.92	2.91	115	10	22.49
RGA5467CXD	9.52	0.58	CSR	F	6300	1846	10.08	2.95	208-230	10	22.93
RGA5472CXA	10.23	0.63	PSC	F	6730	1972	10.20	2.99	115	10	22.05
RGA5472CXD	10.23	0.63	PSC	F	6730	1972	10.20	2.99	208-230	10	22.05
RGA5480CAA	11.52	0.71	PSC	F	7600	2227	9.87	2.89	115	11	25.13
RGA5492CAA	12.74	0.78	PSC	F	8500	2491	9.82	2.88	115	13	27.56
RGA5492CXA	12.74	0.78	PSC	F	8500	2491	9.82	2.88	115	13	27.56
RGA5512CXD	16.11	0.99	CSR	F	10440	3059	9.29	2.72	208-230	11	23.41
RGA5512CXV	16.11	0.99	CSR	F	10440	3059	9.58	2.81	265	13	28.00
RGA5512CXA	16.11	0.99	CSR	F	10520	3082	9.33	2.73	115	11	24.03





R-410A

HBP - High Back Pressure

Model Reference	Displacement		(RPM)	Cooling Capacity (ASHRAE)		Efficiency (ASHRAE) (EER /COP)		Weight	
	cm³	in³		Btu/h	W	Btu/h	W/W	kg	lb
VR5485B-MF5H	8.55	0.52	1800 – 5100	4099 - 13321	1201 - 3904	10.16 - 10.33	2.98 - 3.03	10.30	23
VR5494B-MF5H	9.52	0.58	1800 – 5100	4720 - 14862	1383 - 4356	10.30 - 10.35	3.02 - 3.03	10.20	22
VR5510B-MF5H	10.23	0.63	1800 – 5100	5131 - 15702	1504 - 4602	10.10 - 9.75	2.96 - 2.86	10.20	22



R-410A

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RGA5453BAA	5.41	0.33	PSC	F	5180	1518	9.45	2.77	115	10	21.16
RGA5453BXV	5.41	0.33	PSC	F	5300	1553	9.46	2.77	265	10	21.61
RGA5453BXD	5.41	0.33	PSC	F	5300	1553	9.62	2.82	208-230	10	22.27
RGA5457BAA	5.95	0.37	PSC	F	5730	1679	9.52	2.79	115	10	21.38
RGA5460BAA	6.48	0.40	PSC	F	6015	1762	9.55	2.80	115	10	22.27
RGA5460BXN	6.48	0.40	PSC	F	6160	1805	9.26	2.71	208-230	10	22.27
RGA5460BAG	6.48	0.40	PSC	F	6200	1817	9.19	2.69	115-127	10	22.27
RGA5471BXV	7.12	0.44	PSC	F	6760	1981	9.14	2.68	265	10	21.83
RGA5471BXD	7.12	0.44	PSC	F	7125	2088	9.72	2.85	208-230	10	21.83
RGA5471BAA	7.12	0.44	PSC	F	7170	2101	9.78	2.87	115	10	22.93
RGA5471BAG	7.12	0.44	PSC	F	7200	2110	9.25	2.71	115-127	10	22.93
RGB5471BDS	7.12	0.44	PSC	F	7200	2110	10.03	2.94	115-127	10	22.93
RGB5471BXD	7.12	0.44	PSC	F	7200	2110	10.18	2.98	208-230	11	23.37
RGA5479BXV	7.95	0.49	PSC	F	7800	2285	9.29	2.72	265	10	22.05
RGA5479BXD	7.95	0.49	PSC	F	7800	2285	9.73	2.85	208-230	10	22.70
RGA5479BAA	7.95	0.49	PSC	F	7950	2329	9.81	2.87	115	10	22.05
RGA5485BXV	8.55	0.52	PSC	F	8380	2455	9.63	2.82	265	10	22.05
RGA5485BUD	8.55	0.52	PSC	F	8430	2470	9.57	2.80	208-230	11	23.61
RGA5485BXD	8.55	0.52	PSC	F	8430	2470	9.57	2.80	208-230	10	22.49
RGB5485BXV	8.55	0.52	PSC	F	8475	2483	9.97	2.92	265	11	24.03
RGA5485BAA	8.55	0.52	PSC / CSR / PTCCSR	F	8480	2485	9.77	2.86	115	10	22.49
RGB5485BXD	8.55	0.52	PSC	F	8585	2515	10.21	2.99	208-230	10	22.49
RGB5485BXA	8.55	0.52	PSC	F	8650	2534	9.98	2.92	115	11	24.03
RGB5485BDS	8.55	0.52	PSC	F	8650	2534	10.02	2.94	115-127	11	24.03
RGA5494BXV	9.52	0.58	PSC	F	9350	2740	9.51	2.79	265	11	23.96
RGA5494BXD	9.52	0.58	PSC	F	9370	2745	9.50	2.78	208-230	11	23.90
RGA5494BAG	9.52	0.58	PSC	F	9500	2784	8.64	2.53	115-127	11	24.00

RGA5494BAA	9.52	0.58	PSC / PTCCSR	F	9560	2801	9.62	2.82	115	11	24.00
RGB5494BAA	9.52	0.58	PSC / PTCCSR	F	9560	2801	9.66	2.83	115	11	24.03
RGA5510BXV	10.23	0.63	PSC	F	10000	2930	9.09	2.66	265	10	22.93
RGA5510BXD	10.23	0.63	PSC	F	10110	2962	9.03	2.65	208-230	11	24.17
RGA5510BAA	10.23	0.63	PSC	F	10360	3035	9.14	2.68	115	11	24.14
RG5511B-XD3A	10.87	0.67	PSC	F	10850	3179	10.14	2.97	208-230	11	24.91
RGA5512BXV	11.74	0.72	PSC	F	11320	3317	9.51	2.79	265	11	23.59
RGB5512BXV	11.74	0.72	PSC	F	11350	3326	9.65	2.83	265	11	24.69
RGB5512BXD	11.74	0.72	PSC	F	11600	3399	9.72	2.85	208-230	11	23.59
RGC5512BXD	11.74	0.72	PSC	F	11650	3413	9.77	2.86	208-230	11	24.36
RGD5512BXD	11.74	0.72	PSC	F	11650	3413	10.12	2.97	208-230	11	24.47
RGA5512BAA	11.74	0.72	PSC	F	11800	3457	9.22	2.70	115	11	23.59
RGAB514BAA	11.74	0.72	PSC	F	11800	3457	9.71	2.85	115	11	23.59
RGBB514BAA	11.74	0.72	PSC	F	11800	3457	9.71	2.85	115	11	25.13
RGA5512BXD	11.74	0.72	PSC	F	11950	3501	9.63	2.82	208-230	11	23.59
RGBB515BAA	12.74	0.78	PSC / PTCSCR	F	13000	3809	9.89	2.90	115	12	25.57
RGA5513BAA	12.74	0.78	PSC	F	13120	3844	9.37	2.75	115	11	24.03



R-410A

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		ASHRAE +7.2°C (+45°F) Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HGA5453BAA	5.41	0.33	PSC	F	5180	1518	9.45	2.77	115	10	21.16
HGA5453BXV	5.41	0.33	PSC	F	5300	1553	9.46	2.77	265	11	23.15
HGA5453BXD	5.41	0.33	PSC	F	5300	1553	9.62	2.82	208-230	10	22.93
HGA5471BXV	7.12	0.44	PSC	F	6760	1981	9.14	2.68	265	11	23.77
HGA5471BXD	7.12	0.44	PSC	F	7125	2088	9.76	2.86	208-230	11	23.81
HGA5479BXV	7.95	0.49	PSC	F	7800	2285	9.29	2.72	265	11	24.05
HGA5479BXD	7.95	0.49	PSC	F	7800	2285	9.73	2.85	208-230	11	23.92
HGA5479BAA	7.95	0.49	PSC	F	7950	2329	9.81	2.87	115	10	22.05
HGA5485BXV	8.55	0.52	PSC	F	8380	2455	9.63	2.82	265	10	22.49
HGA5485BXD	8.55	0.52	PSC	F	8430	2470	9.57	2.80	208-230	10	22.49
HGA5494BXV	9.52	0.58	PSC	F	9350	2740	9.51	2.79	265	11	24.69
HGA5494BXD	9.52	0.58	PSC	F	9370	2745	9.50	2.78	208-230	11	24.74
HGA5494BAA	9.52	0.58	PSC	F	9560	2801	9.62	2.82	115	10	22.71
HGA5510BXV	10.23	0.63	CSR / PSC	F	10000	2930	9.09	2.66	265	11	24.80
HGA5510BXD	10.23	0.63	PSC	F	10110	2962	9.03	2.65	208-230	11	24.69
HGA5510BAA	10.23	0.63	PSC	F	10360	3035	9.14	2.68	115	11	24.91
HGB5510BAA	10.23	0.63	PSC	F	10360	3035	9.40	2.75	115	12	25.35
HGA5512BXV	11.74	0.72	PSC	F	11320	3317	9.51	2.79	265	11	23.59
HGBB514BAA	11.74	0.72	PSC	F	11800	3457	9.71	2.85	115	11	25.13
HGA5512BXD	11.74	0.72	PSC	F	11950	3501	9.63	2.82	208-230	11	23.59
HGAB515BAA	12.74	0.78	PSC	F	13000	3809	9.89	2.90	115	11	24.03
HGBB515BAA	12.74	0.78	PSC	F	13000	3809	9.89	2.90	115	12	25.57



R-410A

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ARI +7.2°C (+45°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HGA5512BAA	11.74	0.72	PSC	F	11600	3399	9.15	2.68	115	11	23.59



R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
RGA5450EXA	7.12	0.44	PSC	F	5000	1465	10.80	3.16	115	10	22.05
RGB5450EXA	7.12	0.44	PSC	F	5050	1480	10.93	3.20	115	10	22.05
RGA5456EXA	7.95	0.49	PSC	F	5600	1641	10.81	3.17	115	11	23.59
RGB5456EXA	7.95	0.49	PSC	F	5600	1641	10.92	3.20	115	11	23.59
RGA5460EXD	8.55	0.52	PSC	F	5735	1680	10.24	3.00	208-230	10	22.05
RGA5460EXA	8.55	0.52	PSC	F	6000	1758	10.81	3.17	115-127	11	23.81
RGB5460EXA	8.55	0.52	PSC	F	6000	1758	10.91	3.20	115	11	23.81
RGA5467ERS	9.52	0.58	PSC	N	6400	1875	10.49	3.07	208-230	10	21.78
RGA5467EUS	9.52	0.58	PSC	N	6400	1875	10.49	3.07	208-230	10	22.93
RGA5467EXA	9.52	0.58	PSC	F	6700	1963	10.81	3.17	115-127	10	22.49
RGB5467EXA	9.52	0.58	PSC	F	6700	1963	10.91	3.20	115	12	25.35
RGA5467EXD	9.52	0.58	PSC	F	6750	1978	10.80	3.16	208-230	9	20.77
RGA5467EXV	9.52	0.58	PSC	F	6750	1978	10.80	3.16	265	10	22.93
RGA5472ERS	10.23	0.63	PSC	N	6930	2030	10.24	3.00	208-230	10	22.05
RGA5472EXD	10.23	0.63	PSC	F	7000	2051	10.34	3.03	208-230	10	22.99
RGA5472EAG	10.23	0.63	PSC	F	7200	2110	10.36	3.04	115-127	10	22.05
RGA5472EXA	10.23	0.63	PSC	F	7200	2110	10.83	3.17	115-127	10	22.05
RGB5472EXA	10.23	0.63	PSC	F	7200	2110	10.91	3.20	115	10	22.05
RGA5472EXV	10.23	0.63	PSC	F	7250	2124	10.82	3.17	265	10	22.05
RGB5472EXD	10.23	0.63	PSC	F	7250	2124	10.90	3.19	208-230	10	22.05
RGA5480ERS	11.52	0.71	PSC	N	7880	2309	10.52	3.08	208-230	11	25.13
RGA5480EXV	11.52	0.71	PSC	F	8100	2373	10.60	3.11	265	11	25.13
RGA5480EXA	11.52	0.71	PSC	F	8100	2373	10.80	3.16	115	11	25.13
RGB5480EXA	11.52	0.71	PSC	F	8100	2373	10.90	3.19	115	11	25.13
RGA5480EXD	11.52	0.71	PSC	F	8150	2388	10.81	3.17	208-230	11	25.13
RGA5485ERS	11.74	0.72	PSC	N	8210	2406	10.59	3.10	208-230	12	27.12
RGA5485EXV	11.74	0.72	PSC	F	8500	2491	10.69	3.13	265	12	27.12
RGA5485EXA	11.74	0.72	PSC	F	8500	2491	10.90	3.19	115	12	27.12
RGA5485EXD	11.74	0.72	PSC	F	8500	2491	10.90	3.19	208-230	10	22.60
RGB5485EXD	11.74	0.72	PSC	F	8500	2491	10.93	3.20	208-230	12	27.12

RGA5492ERS	12.74	0.78	PSC	N	8850	2593	10.54	3.09	208-230	10	22.58
RGA5492EUS	12.74	0.78	PSC	N	8850	2593	10.54	3.09	208-230	10	22.49
RGA5492EAG	12.74	0.78	PSC	F	9200	2696	10.45	3.06	115-127	10	22.93
RGA5492EXV	12.74	0.78	PSC	F	9200	2696	10.80	3.16	265	12	27.12
RGA5492EXA	12.74	0.78	PSC	F	9200	2696	10.82	3.17	115-127	11	23.67
RGA5492EXD	12.74	0.78	PSC	F	9200	2696	10.82	3.17	208-230	11	23.48
RGB5492EXA	12.74	0.78	PSC	F	9200	2696	10.90	3.19	115	13	27.56
RGA5510ERS	14.25	0.87	PSC	N	9790	2868	10.29	3.01	208-230	13	27.78
RGA5510EXA	14.25	0.87	PSC	F	10300	3018	10.51	3.08	115-127	11	24.00
RGB5510EXA	14.25	0.87	PSC	F	10300	3018	10.81	3.17	115	13	28.00
RGB5510EXA	14.25	0.87	PSC	F	10300	3018	10.81	3.17	115	13	28.00
RGA5512ERS	16.11	0.99	PSC	N	11160	3270	10.38	3.04	208-230	11	23.59
RGA5512EXA	16.11	0.99	PSC	F	11500	3370	10.50	3.08	115-127	11	24.41
RGA5512EXV	16.11	0.99	PSC	F	11500	3370	10.70	3.14	265	13	28.00
RGB5512EXA	16.11	0.99	PSC	F	11600	3399	10.81	3.17	115	13	28.00
RGB5512EXD	16.11	0.99	PSC	F	11600	3399	10.85	3.18	208-230	13	28.00



R-22

HBP - High Back Pressure

Model Number	Displacement		Motor	Ventilation Approval Type	ASHRAE +7.2°C (+45°F) Capacity		Efficiency		Voltage (V)	Weight	
	cm³	in³			Btu/h	W	EER	COP		kg	lb
HGA5480EXV	11.52	0.71	PSC	F	8100	2373	10.60	3.11	265	11	25.13
HGA5480EXD	11.52	0.71	PSC	F	8150	2388	10.81	3.17	208-230	11	25.13
HGA5512EXD	16.11	0.99	PSC	F	11500	3370	10.70	3.14	208-230	13	28.00
HGA5512EXV	16.10	0.99	PSC	F	11500	3370	10.70	3.14	265	13	28.00





MASTERFLUX
by Tecumseh

MASTERFLUX DC/AC COMPRESSORS



DIRECT DC

VARIABLE-CAPACITY COOLING SOLUTIONS FOR EMERGING

Masterflux, a Tecumseh brand, designs and manufactures a wide range of direct DC, variable capacity compressors and systems for a variety of emerging applications.

Compact and lightweight, highly efficient and reliable, our Masterflux compressors are developed for mobile applications and high COP. Masterflux also develops cooling and refrigeration systems such as BTMS (battery thermal management system), and HVAC for EV/ICE vehicle applications.



MASTERFLUX APPLICATIONS

Well suited for a variety of DC applications covering the ordinary to the extraordinary:

IDLE-MITIGATION



Masterflux's line of compressors is ideally suited for battery powered no-idle applications for OEM and aftermarket systems.

AUTOMOTIVE



Our compressors are up to 40% smaller and lighter than competing belt driven automotive compressors.

LAST-MILE DELIVERY



Quiet, robust and highly-efficient cooling designed for frequent deliveries with rapid-pull-downs.

MEDICAL/SCIENTIFIC



Because our compressors can be powered by low DC voltage, regulatory certification is greatly simplified.

SOLAR/OFF-GRID POWER



Masterflux offers a solution for DC systems running on solar, battery, or other off-grid power sources.

MILITARY



Our technology can be found in military applications from the use of chiller technology for cooling a soldier to powering thermal systems for electronic cooling.

ELECTRONICS



With demanding requirements for electronic cooling, Masterflux is at the forefront of the development of new cooling concepts for electronic systems.

MOBILE CONTAINERS



Compact and reliable Masterflux used by global logistic services.

MASTERFLUX SOLUTIONS

COMPRESSORS

MESA



Up to 1,897 BTU/hr (556W)

CASCADE



Up to 2.5k BTU/hr (732W)

ATLAS



Up to 6k BTU/hr (1.6kW)

HG



Up to 10k BTU/hr (3.3kW)

SIERRA



Up to 13k BTU/hr (4kW) 30k BTU (8.8kW) by tandem configuration

LARGER CAPACITY MODEL IN DEVELOPMENT

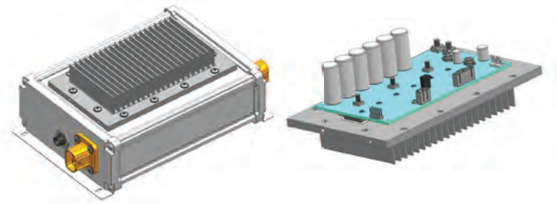
*Capacity based on High Temp applications

CONTROLLERS

Masterflux controllers are designed and developed in-house, optimized for specific Masterflux compressors.

For each model of compressor, there may be several versions of the controller to choose from.

Ask us about custom controller development for your specific application.





DIRECT DC SYSTEMS

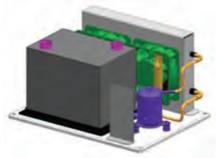
eBTMS (ELECTRIC BATTERY THERMAL MANAGEMENT SYSTEMS)

Highly efficient active-cooling systems with Direct-DC compressors ensure precise temperature control to optimize battery life of EV applications.

From micro-compressors to full-sized tandem setups, Masterflux offers a wide range of variable-cooling capacities for your applications.



PLATFORM A



Cooling Capacity:
150 ~ 350 Watts
Air cooled and
liquid cooled version

PLATFORM B



Cooling Capacity:
400 ~ 2000 Watts
Liquid cooled version

PLATFORM C



Cooling Capacity:
3 KW / 5 KW / 7 KW
Liquid cooled version

CUSTOM eBTMS

Can be designed to fit unique customer installation requirements

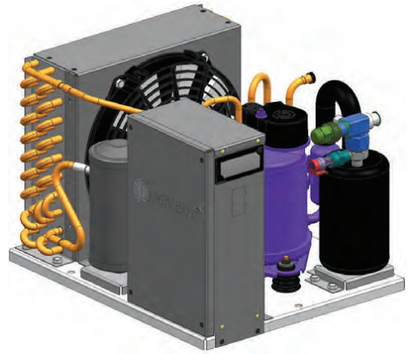


eHVAC (ELECTRIC HVAC SYSTEMS)

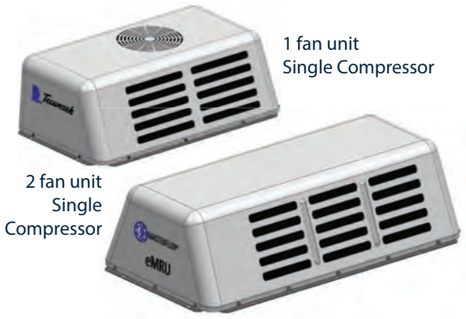
There is no secret that Masterflux DC Compressors have been used for "non-idle parking" air conditioning for decades by major truck manufacturers. Masterflux is extending the offering by packaging idle-mitigation systems for your needs.

eMRU (ELECTRIC MOBILE REFRIGERATION UNITS)

Fresh or frozen. Masterflux eMRU offers a variety of efficient, reliable and compact electric refrigeration systems; condensing units for food trucks, micro-systems for mobile containers, full refrigeration systems for TRU and other last-mile transports.



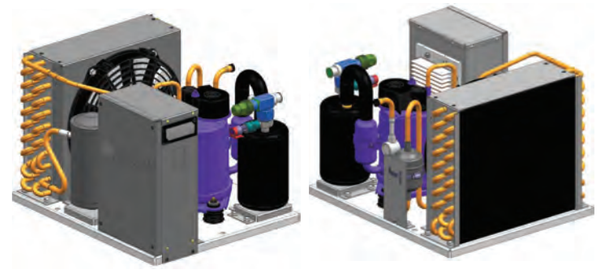
CHASSIS 1



CHASSIS 2

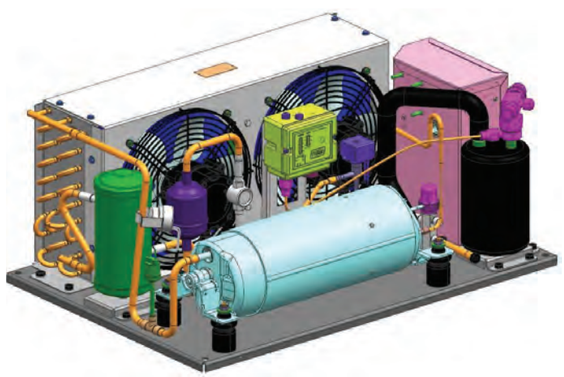
Top Mount and Nose Mount Option

Top Mount and Nose Mount Option



SPECIALITY DC COOLING

Masterflux offers custom development of specialty DC cooling solutions.



Some examples of applications include:

- Electronics & semiconductors
- Food trucks & carts
- Telecom & solar
- EV DCFC stations
- Mobile chillers
- Ask us more!

COMPRESSORS & CONTROLLERS



MESA

Our Mesa family of compressors are the perfect choice for small DC-powered refrigerators used in recreational vehicles, buses, trains, trucks and boats, as well as medical and telecommunications applications. The Mesa compressor is rugged, light-weight and can fit any unique installation requirements.

FEATURES & BENEFITS

- Micro/Mini rotary BLDC compressors onefourth the size of conventional compressors
- High-efficiency motors with optimized pumping mechanisms results in industry leading EERs
- Stable and low vibration mechanisms coupled with reduced friction cylinder components minimize noise

CASCADE

Our Cascade compressor is ideally suited for battery powered mobile and stationary applications as well as battery cooling. From medical to mobile refrigeration and from solar refrigeration to telecommunications, our Cascade family of compressors are perfect for your application. With an integrated electronic control mounted on the compressor, Cascade is the optimal combination of compressor and controller in one compact and efficient footprint.

FEATURES & BENEFITS

- Low temperature compressor ideally suited for mobile applications
- High temperature models available for telecom applications
- Integrated electronic controller mounting

ATLAS

The compactness of our Atlas compressors make them suitable for a wide variety of applications. Mobile applications such as recreational vehicles, buses, trains, trucks or boats find Atlas as the compressor of choice to fit their unique installation needs. Other industries such as medical and telecommunications choose Atlas for its wide voltage range capabilities of 12, 24 and 48 VDC. Our Atlas family of compressors are setting the industry standard for durability and will meet any customer need head on.

FEATURES & BENEFITS

- Compact, high-powered, efficient and lightweight
- Suitable for an extensive range of applications
- High-efficiency motors with optimized pumping mechanisms results in industry leading EERs

MASTERFLUX DC

Tecumseh

MESA

TECHNICAL INFO

Refrigerant: R134a

Application: Low, High Temp

Cooling Capacity:
95 – 474 BTU/hr (Low Temp)
397 – 1,897 BTU/hr
(High Temp)

Voltage Range:
24,48 VDC and 100, 200 VAC

CASCADE

TECHNICAL INFO

Refrigerant: R134a

Application: Low, High Temp

Cooling Capacity:
100 – 621 BTU/hr (Low Temp)
980 – 2,570 BTU/hr
(High Temp)

Voltage Range:
12/24V Dual Voltage Models
and 24V and 48V Models

ATLAS

TECHNICAL INFO

Refrigerant: R134a, R1234yf

Application: Low, High Temp

Cooling Capacity:
500 – 970 BTU/hr (Low Temp)
1,800 – 6,000 BTU/hr
(High Temp)

Voltage Range:
12/24/48 VDC



HG

The HG is a variable speed, rotary compressor with a direct DC drive. Our customers choose the HG compressor because it eliminates the need to convert DC voltage to AC voltage to drive the compressors. HG is the perfect choice for rooftop AC and rooftop refrigeration units used in recreational vehicles and last-mile delivery. With its light weight, low profile and wide capacity range, the HG reduces overall power consumption, increases battery life and can fit a wide variety of customer applications.

FEATURES & BENEFITS

- High efficiency BLDC motor
- Ready for mobile applications
- Smart controller (voltage, frequency, serial interface) 16cc displacementwith
- Up to 3kW in HBP and 1.2kW in LBP 24 and 48Vdc, R134a, R1234yf, R404a, R452a

TECHNICAL INFO

Refrigerant:
R404A, R452A, R134A, R1234yf, R513A, R290

Application:
Low Temp, Med Temp, High Temp

Cooling Capacity:
Up to 10k BTU in High Temp

Voltage Range:
24VDC and 48VDC, 40-80Hz

SIERRA

No matter the requirement, the Sierra family of compressors is the solution.
Pound for pound, Sierra has the widest operating range and the most capacity of any compressor on the market, so it is no surprise you can find it in hundreds of applications. Sierra is well suited for transport applications such as electric vehicles, trains, buses and aircrafts but is also used in the military, battery cooling and telecommunications industries. By integrating diagnostics into the variable speed drive, the Sierra family of compressors has set the standard for reliability.

FEATURES & BENEFITS

- High-efficiency, high-capacity, BLDC compressor line
- Robust rotary design ideally suited for mobile and transport applications
- Dual compressor configurations for increased capacity range

TECHNICAL INFO

Refrigerant:
R134a, R404A, R-290, R1234yf, R513A

Application:
Low, Med, High Temp

Cooling Capacity:
400 – 30,000 BTU/hr (Tandem Config.)

Voltage Range:
12V – 600V DC

CONTROLLERS

Each Masterflux compressor requires a Masterflux sensorless BLDC motor controller to operate. For each model of compressor, there may be several versions of the controller to choose from. These controllers are specifically tested and optimized for each compressor and ensure optimal performance.



KEY FEATURES

- Compressor initiation and operation
- Variable speed control
- Locked-rotor protection
- Limits power and current draw
- Thermal protection and shutdown of compressor and controller
- Provides diagnostic information
- Low-voltage and high-voltage shutdown

KEY FEATURES

- Compressor harnesses
- Manual control devices
- Serial and USB diagnostic devices







SEMI HERMETIC COMPRESSORS



GENERAL INFORMATION

RATING CONDITION

Compressors - EN 12900

	LBP	HP / MHBP
Evaporating Temperature	- 35 °C	- 10 °C
Condensing Temperature	+ 40 °C	+ 45 °C
Return Gas Temperature	+ 20 °C	+ 20 °C
Temperature + 20 °C + 20 °C	0K	0K

Condensing Units - EN13215

	LBP	HP / MHBP
Evaporating Temperature	- 35 °C	- 10 °C
Condensing Temperature	+ 32 °C	+ 32 °C
Return Gas Temperature	+ 20 °C	+ 20 °C
Temperature + 20 °C + 20 °C	3K	3k

UNIT CONVERSION

*For the conversion of the refrigeration capacity from watt at 50 Hz to:
Btu/hr at 50 Hz, use multiplying factor 3.41
Kcal/hr at 50 Hz, use multiplying factor 0.86

Conversion factor for obtaining the capacity in HP

- in medium and high back pressure and all air conditioning.
(Evap Temp: +7.2 ^{0}C, Cond Temp.: 54.5 ^{0}C)

- in low back pressure
(Evap Temp: -23.3 ^{0}C, Cond Temp.: 54.5 ^{0}C)

$$HP = \frac{\text{Performance at 60 Hz in Btu/hr}}{12{,}000}$$

$$HP = \frac{\text{Performance at 60 Hz in Btu/hr}}{4{,}000}$$

SEMI-HERMETIC COMPRESSOR

COMMERCIAL HIGH TEMPERATURE REFRIGERATION

Model	Displacement (m^3/h)	ENI2900 (RTG 20 °C) Capacity (Watt)			Current (Amps)		Diameter of Connection		Oil Charge (cm^3)	Weight (kg)
		-5 °C	0 °C	+5 °C	I Nom	I Max	Suction (Inches)	Discharge (Inches)		
SH 4576ZYZ	21.18	11.081	13.429	16.070	10.6	11.6	1"1/8	3/4	1.600	79
SH 4591ZYZ	24.69	13.164	15.968	19.188	12.6	12.7	1"1/8	7/8	1.600	79
SH 4610ZYZ	28.02	15.409	18.615	22.283	16.4	17.6	1"3/8	1"1/8	1.600	79
SH 4612ZYZ	32.66	17.778	21.468	25.698	18.6	20.0	1"3/8	1"1/8	1.600	79
SH 4615ZMZ	41.32	21.829	26.668	32.203	20.7	22.4	1"3/8	1"1/8	2.900	120
SH 4620ZMZ	51.50	29.128	35.001	41.797	30.1	32.4	1"5/8	1"1/8	2.900	126
SH 4622ZMZ	56.00	32.090	38.510	45.930	34.9	38.4	1"5/8	1"1/8	2.900	132
SH 4627ZMZ	70.77	38.340	46.780	56.510	38.2	43.5	2"1/8	1"3/8	4.000	184
SH 4632ZMZ	83.81	46.490	56.490	67.970	44.3	49.2	2"1/8	1"3/8	4.000	187

COMMERCIAL LOW TEMPERATURE REFRIGERATION

Model	Displacement (m^3/h)	ENI2900 (RTG 20 °C) Capacity (Watt)			Current (Amps)		Diameter of Connection		Oil Charge (cm^3)	Weight (kg)
		-35 °C	-30 °C	-20 °C	I Nom	I Max	Suction (Inches)	Discharge (Inches)		
SH 2534ZYZ	28.02	4.435	5.956	9.867	8.8	14.0	1"3/8	7/8	1.600	79
SH 2542ZYZ	32.66	5.514	7.227	11.628	9.8	14.4	1"3/8	1"1/8	1.600	79
SH 2552ZYZ	35.86	6.643	8.661	13.811	12.8	19.4	1"3/8	1"1/8	1.600	79
SH 2568ZMZ	51.50	9.146	11.915	18.767	15.9	24.5	1"3/8	1"1/8	2.900	120
SH 2575ZMZ	56.00	9.914	13.059	20.867	20.7	30.7	1"5/8	1"1/8	2.900	130
SH 2610ZMZ	83.81	13.500	17.990	29.560	26.3	42.6	1"5/8	1"1/8	4.000	180
SH 2614ZMZ	102.86	16.050	21.860	36.760	34.2	45.0	2"1/8	1"3/8	4.000	190
SH 2615ZMZ	125.72	19.490	26.320	44.100	34.7	55.7	2"1/8	1"3/8	7.200	229

Note : Constant endeavour to improve its products reserves the right to change any information contained in this leaflet without prior warning.



SEMI-HERMETIC CONDENSING UNIT

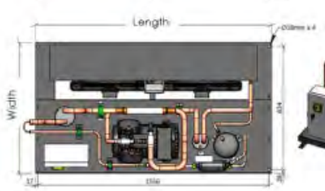
COMMERCIAL HIGH TEMPERATURE REFRIGERATION

Model	ENI3215 (RTG 20 °C) Capacity (Watt)			Current (Amps)		Diameter of Connection		Condenser Fan		Weight (kg)	Bases
	-5 °C	0 °C	+5 °C	I Nom	I Max	Suction (Inches)	Liquid (Inches)	Nos	Dia. (mm)		
SHT 4576ZHR	13.105	15.217	17.346	13.1	14.1	1"1/8	5/8	2	500	177	I I
SHT 4591ZHR	15.658	18.228	20.974	15.1	15.2	1"1/8	5/8	2	500	177	I I
SHT 4610ZHR	17.716	20.409	23.264	18.9	20.1	1"3/8	5/8	2	500	182	I I
SHT 4612ZHR	20.546	23.647	27.012	21.1	22.5	1"3/8	5/8	2	500	186	I I
SHT 4615ZHR	24.800	28.632	32.618	23.2	24.9	1"3/8	7/8	2	500	232	I I
SHT 4620ZHR	29.877	33.857	38.068	32.6	34.9	1"5/8	7/8	2	500	232	I I
SHT 4622ZHR	32.720	37.580	42.790	38.5	42.4	1"5/8	7/8	3	500	320	I I I
SHT 4627ZHR	37.360	42.590	47.790	41.6	47.5	2"1/8	7/8	4	500	372	IV
SHT 4632ZHR	48.130	55.400	62.760	46.4	53.2	2"1/8	7/8	4	500	375	IV

DIMENSION

Base I and I I





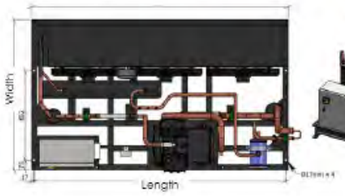
Base I I I













COMMERCIAL LOW TEMPERATURE REFRIGERATION

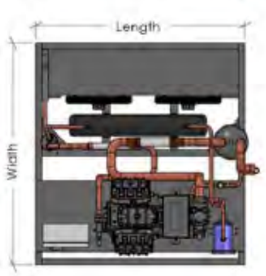
Model	ENI3215 (RTG 20 °C) Capacity (Watt)			Current (Amps)		Diameter of Connection		Condenser Fan		Weight (kg)	Bases
	-35 °C	-30 °C	-20 °C	I Nom	I Max	Suction (Inches)	Liquid (Inches)	Nos	Dia. (mm)		
SHT 2534ZBR	4.821	6.329	9.903	11.3	16.6	1"3/8	5/8	2	400	177	I
SHT 2542ZBR	5.831	7.484	11.414	12.3	16.9	1"3/8	5/8	2	500	182	I I
SHT 2552ZBR	7.118	9.130	13.687	15.3	22.0	1"3/8	5/8	2	500	186	I I
SHT 2568ZBR	9.459	11.911	17.249	18.4	27.0	1"3/8	5/8	2	500	227	I I
SHT 2575ZBR	10.564	13.488	20.269	23.3	33.2	1"5/8	5/8	2	500	242	I I
SHT 2610ZBR	14.610	18.480	27.090	29.6	42.4	1"5/8	7/8	3	500	367	I I I
SHT 2614ZBR	16.477	20.856	30.484	37.3	47.5	2"1/8	7/8	4	500	391	IV
SHT 2615ZBR	20.210	25.270	36.590	38.0	53.2	2"1/8	7/8	4	500	416	IV

Note : Constant endeavour to improve its products reserves the right to change any information contained in this leaflet without prior warning.

Base IV









Base	Length	Width	Width
I	1.600	690	690
I I	1.600	890	936
I I I	1.880	1.100	905
IV	1.368	1.440	1.875

Dimension given in mm





DIGITAL TOOLS

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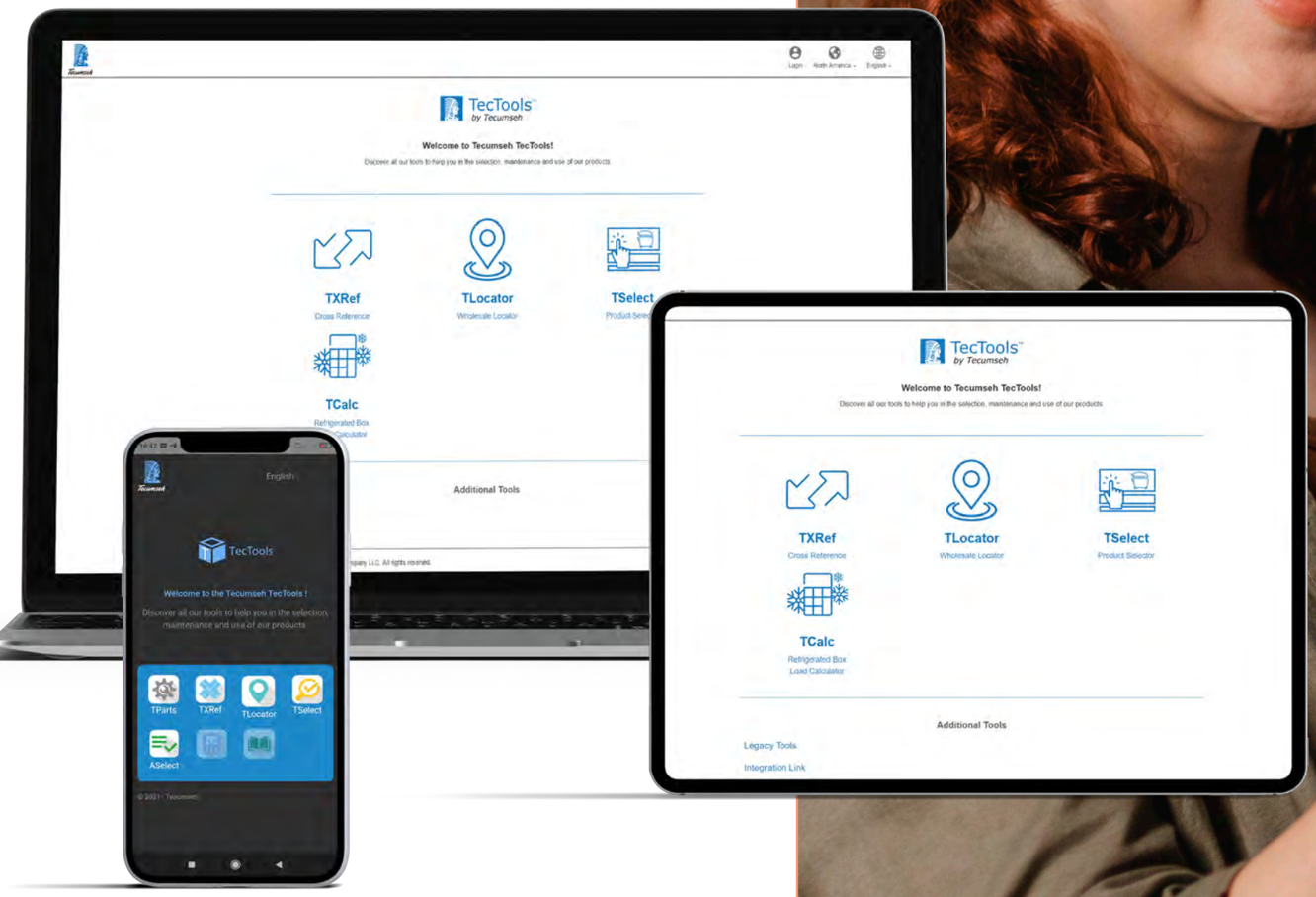
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/ TECUMSEHPRODUCTS



NORTH AMERICA
5683 Hines Drive Ann Arbor, Michigan 48108 USA
Tel: +1 734 585 9500 / Fax: +1 734 352 3700

BRASIL
Rua Ray Wesley Herrick 700 13565-090 São Carlos SP BRAZIL
Tel: +55 16 3362 3000 / Fax: +55 16 3363 7219

EUROPE
2, Avenue Blaise Pascal 38090 Vaulx Milieu FRANCE
Tel: +33 4 74 82 24 00 / Fax: +33 4 74 82 24 44

MALAYSIA
Nº 18, Jalan Sultan Mohamed 4 Selat Klang Utara 42000 Port Klang Selangor Darul Ehsan MALAYSIA
Tel: +60 3 3176 3886 / Fax: +60 3 3176 3890

INDIA
38 K M Stone Delhi Mathura Road Ballabgarh, Haryana, India 121 004 INDIA
Tel: +91 129 2298000

CHINA
Tecumseh Compressor (Guangzhou) Co., Ltd Room 634, Wuzi Building 201 Guangbao Avenue Guangzhou Free Trade Zone CHINA
Tel: +86 20 8221 8072 / Fax: +86 20 8205 7456

MIDDLE EAST
Tecumseh Products Middle East Office A1616 16º Floor Tower A JAFZA One Jebel Ali Free Zone Dubai UNITED ARAB EMIRATES
Tel.: +971 04 333 8306

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