Compressor Technical Data

Model: EMI45HER

Code: 513307231

Description

Refrigerant:	R-134a	Displacement (cm³):	3,77
Voltage:	220-240 V 50-60 Hz 1 ~	Lubricant Type:	ISO10
Frequency (Hz):	50	Lubricant Charge (ml):	160
Application:	LBP	Motor Type:	RSIR
HP:	1/8	Starting Torque:	LST
Efficiency:	4,14	Type of Test:	ASHRAE32
Capacity:	340,00		

Approval

IRAM

TUV

VDE

Data

External Features

	Shape	Material	Diameter (mm)
Suction Connector	Slanted parallel to Base Plate	Copper	6,50
Discharge Connector	Straight	Copper	4,94
Process Connector	Straight	Copper	6,50

Oil Cooler:	
Base Plate:	Universal EG/F/AMEM version 2
Tray Holder:	No
Weight (kg):	7,69

Application

Maximum ambient temperature (ºC):	43
Expansion device:	Capillary
Cooling:	Static
Air flow rate:	

Mechanical Data

Bill of materials:	513307231
Starting torque:	Low Starting Torque
Bore (mm):	19,00
Stroke (mm):	6,65
Weight (kg):	7,69

Electrical Data

Motor type:	RSIR
Winding Resistance (25ºC) - Start:	20,60
Winding Resistance (25ºC) - Run:	33,50

Check Point - Condensing Temperature 54,4 ºC

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Efficiency +/-7%		
(ºC)	(kcal/h)	(W)	(Btu/h)	(W)	(A)	(kcal/Wh)	(W/W)	(Btu/Wh)
-23,3	87	102	347	83	0,77	1,05	1,23	4,18

Condensing Temperature 45 ºC

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
(ºC)	(kcal/h)	(W)	(Btu/h)	(W)	(A)	(kg/h)	(kcal/Wh)	(W/W)	(Btu/Wh)
-35	48	56	190	60	0,70	1,07	0,80	0,93	3,17
-30	66	77	262	69	0,74	1,48	0,95	1,11	3,78
-25	88	102	349	78	0,75	1,98	1,13	1,31	4,47
-20	115	134	456	86	0,76	2,59	1,33	1,55	5,27
-15	148	172	588	95	0,76	3,36	1,56	1,81	6,19
-10	190	220	752	105	0,79	4,31	1,81	2,11	7,19

Condensing Temperature 55 ºC

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
(ºC)	(kcal/h)	(W)	(Btu/h)	(W)	(A)	(kg/h)	(kcal/Wh)	(W/W)	(Btu/Wh)
-35	37	43	145	59	0,70	0,82	0,62	0,73	2,48
-30	56	65	221	69	0,75	1,25	0,80	0,94	3,19
-25	78	91	310	79	0,77	1,76	0,98	1,14	3,90
-20	105	122	417	90	0,78	2,37	1,17	1,36	4,65
-15	138	161	548	100	0,79	3,13	1,37	1,60	5,46
-10	178	207	707	112	0,83	4,05	1,59	1,85	6,31

Condensing Temperature 65 ºC

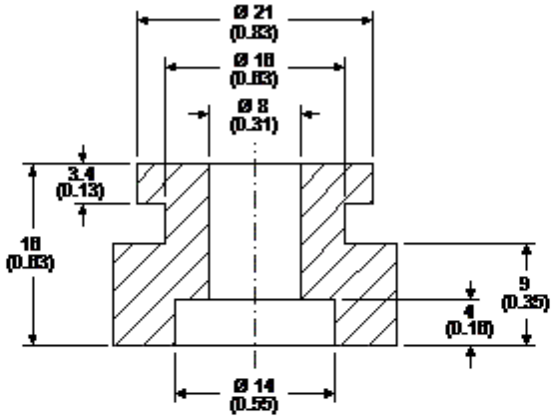
Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
(ºC)	(kcal/h)	(W)	(Btu/h)	(W)	(A)	(kg/h)	(kcal/Wh)	(W/W)	(Btu/Wh)
-35	29	33	114	55	0,69	0,64	0,53	0,61	2,09
-30	47	55	186	67	0,74	1,06	0,70	0,82	2,80
-25	68	79	269	78	0,76	1,53	0,87	1,01	3,44
-20	93	108	368	90	0,78	2,10	1,03	1,19	4,07
-15	123	143	489	103	0,80	2,79	1,19	1,39	4,73
-10	160	186	636	117	0,84	3,64	1,37	1,59	5,42

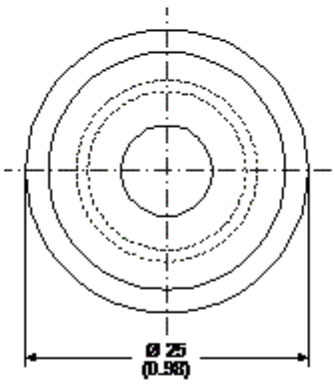
Dimensions

Rubber Grommet

Engineering Code	13146411
Dimensions	mm (Inch)

The grommets are made of special rubber and used in the nut and bolt type or in the snap on type assembly. The rummer grommet, the dimensions of which are shown in the figure below, was developed for installation in compressors with 16 and 19 mm diameters holes in the base plate.

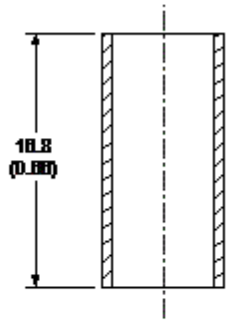


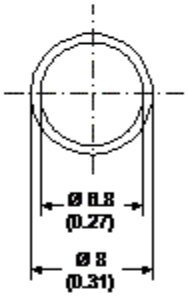


Metal Bushing

Engineering Code	13126755
Dimensions	mm (Inch)

As an optional assembly accessory, Embraco can supply metal bushings, the purpose os which is to limit tightening of the screws upon attachment of the compressor assembly to the refrigeration system. This bushing is made of steel in the dimensions shown in the figure below, and comes with an anti-rust coating of chromatized zinc.





Accessories