Compressor Technical Data

Model: EGAS80CLP

Code: 513701272

Description

Refrigerant:	R-600a	Displacement (cm³):	11,14
Voltage:	220 V 50-60 Hz 1 ~	Lubricant Type:	ISO5
Frequency (Hz):	50	Lubricant Charge (ml):	280
Application:	LBP	Motor Type:	RSIR
HP:	1/4	Starting Torque:	LST
Efficiency:	4,93	Type of Test:	ASHRAE32
Capacity:	648,00		

Approval

TUV

Data

External Features

	Shape	Material	Diameter (mm)
Suction Connector	Slanted	Copper	8,20
Discharge Connector	Slanted	Copper	4,94
Process Connector	Straight	Copper	6,50

Oil Cooler:	
Base Plate:	European Standard EG/F/AMEM Version 2
Tray Holder:	No
Weight (kg):	10,86

Application

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

Mechanical Data

Bill of materials:	513701272
Starting torque:	Low Starting Torque
Bore (mm):	26,00
Stroke (mm):	10,50
Weight (kg):	10,86

Electrical Data

Motor type:	RSIR
Winding Resistance (25ºC) - Start:	14,00
Winding Resistance (25ºC) - Run:	19,50

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	162	188	641	131	1,14	1,23	1,43	4,89

Condensing Temperature 35 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	95	111	378	89	1,04	1,18	1,07	1,24	4,23
-30	127	147	503	102	1,08	1,58	1,24	1,44	4,91
-25	166	193	659	114	1,10	2,07	1,46	1,70	5,80
-20	215	250	852	124	1,11	2,68	1,73	2,01	6,86
-15	274	319	1.089	135	1,13	3,43	2,03	2,36	8,06
-10	347	404	1.378	148	1,15	4,35	2,35	2,73	9,32

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	87	101	346	92	1,05	1,08	0,94	1,10	3,75
-30	118	137	469	107	1,09	1,47	1,10	1,28	4,37
-25	157	182	621	121	1,12	1,95	1,30	1,51	5,15
-20	204	237	810	134	1,14	2,54	1,53	1,78	6,07
-15	263	306	1.043	147	1,16	3,28	1,78	2,08	7,08
-10	334	389	1.326	163	1,19	4,18	2,05	2,39	8,14

Condensing Temperature 55 ºC

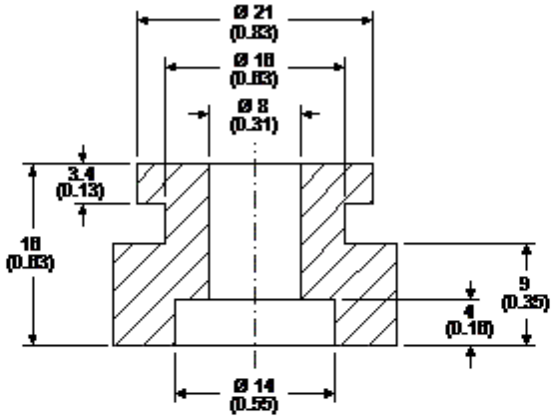
Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
(ºC)	(kcal/h)	(W)	(Btu/h)	(W)	(A)	(kg/h)	(kcal/Wh)	(W/W)	(Btu/Wh)
-35	80	93	319	94	1,06	1,00	0,85	0,99	3,39
-30	110	128	436	111	1,10	1,37	0,99	1,15	3,93
-25	147	170	581	126	1,13	1,82	1,16	1,35	4,60
-20	192	224	763	142	1,16	2,40	1,36	1,58	5,38
-15	249	289	987	158	1,19	3,11	1,57	1,83	6,24
-10	318	370	1.261	177	1,24	3,98	1,80	2,09	7,14

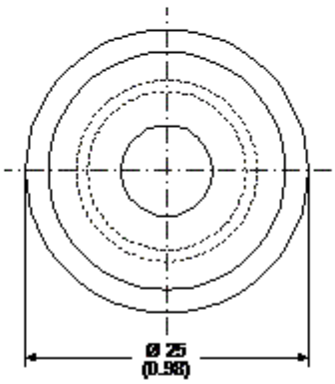
Dimensions

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.

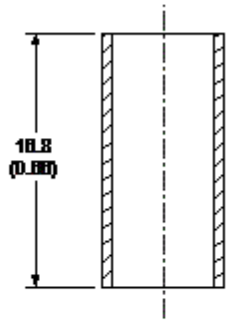


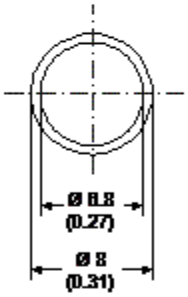


Metal Bushing

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