Compressor Technical Data

Model: EMT6165U

Code: 872GA67

Description

Refrigerant:	R-290	Displacement (cm³):	5,96
Voltage:	220-240 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	180
Application:	MBP	Motor Type:	CSIR
HP:	1/3-	Starting Torque:	HST
Efficiency:	8,76	Type of Test:	ASHRAE46
Capacity:	2865,00		

Approval

VDE

Data

External Features

	Shape	Material	Diameter (mm)
Suction Connector	Slanted 42°	Copper	6,10
Discharge Connector	Straight	Copper	4,94
Process Connector	Slanted 42°	Copper	6,10

Oil Cooler:	
Base Plate:	European Standard
Tray Holder:	No
Weight (kg):	7,80

Application

Maximum ambient temperature (ºC):	43
Expansion device:	Capillary/ Valve
Cooling:	Fan Cooling
Air flow rate:	

Mechanical Data

Bill of materials:	872GA67
Starting torque:	High Starting Torque
Bore (mm):	22,50
Stroke (mm):	7,50
Weight (kg):	7,80

Electrical Data

Motor type:	CSIR
Winding Resistance (25ºC) - Start:	10,10
Winding Resistance (25ºC) - Run:	19,20

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)
7,2	727	845	2.883	330	1,99	2,20	2,56	8,73

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)
-20	343	399	1.362	202	1,63	3,84	1,70	1,98	6,75
-15	417	485	1.654	213	1,66	4,69	1,95	2,27	7,76
-10	500	581	1.983	224	1,69	5,64	2,23	2,60	8,87
-5	595	692	2.363	233	1,72	6,75	2,55	2,97	10,13
0	708	823	2.809	243	1,75	8,07	2,92	3,39	11,57
5	841	978	3.336	252	1,78	9,65	3,33	3,88	13,23
10	998	1.160	3.959	262	1,80	11,54	3,81	4,43	15,12

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)
-20	301	350	1.195	216	1,67	3,65	1,39	1,62	5,53
-15	371	432	1.473	232	1,71	4,51	1,60	1,86	6,35
-10	449	522	1.780	247	1,74	5,48	1,82	2,11	7,21
-5	537	625	2.132	261	1,78	6,59	2,06	2,39	8,16
0	641	746	2.544	276	1,82	7,92	2,33	2,71	9,23
5	764	888	3.031	290	1,86	9,50	2,63	3,06	10,45
10	909	1.057	3.607	305	1,91	11,39	2,98	3,47	11,82

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)
-20	266	309	1.054	233	1,72	3,52	1,14	1,33	4,52
-15	326	380	1.295	252	1,76	4,33	1,30	1,51	5,14
-10	393	457	1.560	270	1,81	5,24	1,46	1,69	5,77
-5	469	546	1.863	288	1,86	6,30	1,63	1,90	6,47
0	559	650	2.219	306	1,91	7,56	1,83	2,13	7,25

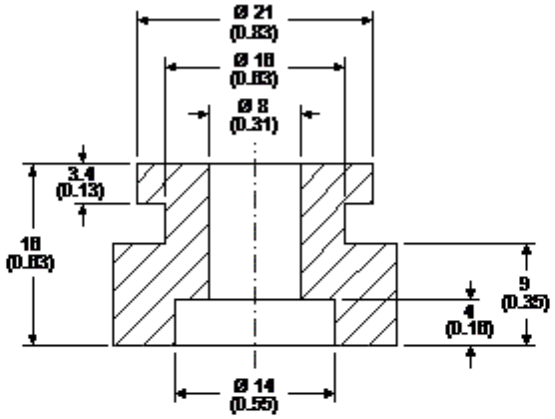
5	666	775	2.644	324	1,97	9,07	2,06	2,39	8,16
10	794	924	3.151	343	2,03	10,90	2,32	2,69	9,19

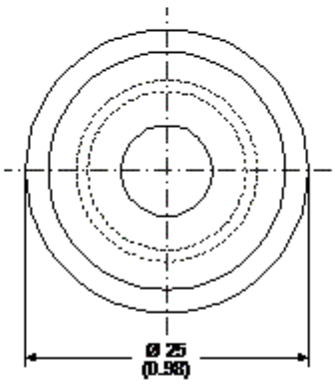
Dimensions

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.

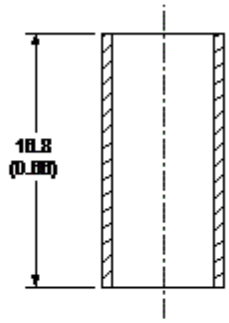


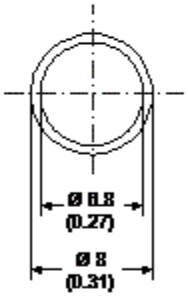


Metal Bushing

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