

## Compressor Technical Data

**Model:** EMT6144U

**Code:** 872HA67

### Description

Refrigerant:	R-290	Displacement (cm <sup>3</sup> ):	4,5
Voltage:	220-240 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	180
Application:	MBP	Motor Type:	CSIR
HP:	1/4-	Starting Torque:	HST
Efficiency:	6,83	Type of Test:	EN12900HH
Capacity:	1170,00		

### 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 (°C):	43
Expansion device:	Capillary/ Valve
Cooling:	Static
Air flow rate:	

#### Mechanical Data

Bill of materials:	872HA67
Starting torque:	High Starting Torque
Bore (mm):	21,00
Stroke (mm):	6,50
Weight (kg):	7,80

#### Electrical Data

Motor type:	CSIR
Winding Resistance (25°C) - Start:	0,00
Winding Resistance (25°C) - Run:	0,00

**Check Point - Condensing Temperature 45 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)			(Btu/h)	(W)	(A)
-10	295	343	1.169	171	1,11	1,72	2,00	6,82

**Condensing Temperature 35 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-20	225	262	894	138	0,99	2,73	1,64	1,91	6,50
-15	277	322	1.100	146	1,03	3,37	1,90	2,21	7,54
-10	339	394	1.344	153	1,06	4,14	2,21	2,57	8,76
-5	411	477	1.629	160	1,09	5,05	2,56	2,98	10,17
0	493	573	1.954	166	1,11	6,09	2,97	3,45	11,77
5	585	680	2.321	171	1,12	7,29	3,43	3,99	13,60
10	688	800	2.729	174	1,13	8,64	3,96	4,60	15,70

**Condensing Temperature 45 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-20	196	228	778	150	1,01	2,60	1,31	1,52	5,19
-15	241	280	955	161	1,06	3,20	1,50	1,74	5,94
-10	295	343	1.169	171	1,11	3,94	1,72	2,00	6,82
-5	358	416	1.421	181	1,15	4,81	1,97	2,30	7,84
0	431	501	1.710	191	1,19	5,83	2,26	2,63	8,97
5	514	597	2.038	199	1,22	7,01	2,58	3,00	10,24
10	606	705	2.405	206	1,25	8,35	2,94	3,42	11,66

**Condensing Temperature 55 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-20	168	195	667	159	1,06	2,46	1,05	1,23	4,19
-15	205	238	812	174	1,12	3,01	1,18	1,37	4,67
-10	250	291	991	188	1,17	3,70	1,33	1,54	5,27
-5	304	353	1.206	202	1,23	4,53	1,50	1,75	5,96
0	367	426	1.455	216	1,28	5,51	1,70	1,97	6,74

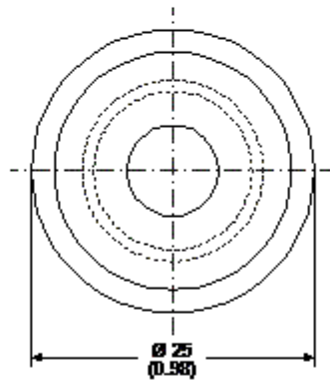
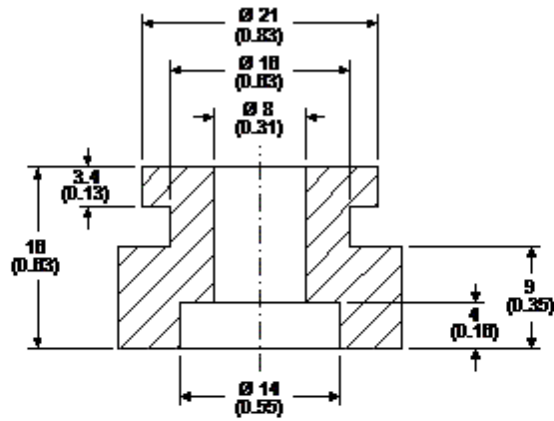
5	438	510	1.740	229	1,33	6,65	1,91	2,23	7,59
10	519	604	2.061	241	1,37	7,95	2,15	2,50	8,54

## Dimensions

### Rubber Grommet

Engineering Code	13146411
Dimensions	mm (Inch)

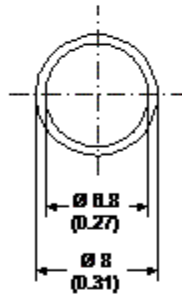
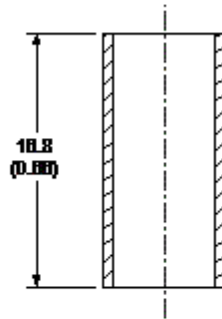
The grommets are made of special rubber and used in the nut and bolt type or in the snap on type assembly. The rubber grommet, the dimensions of which are shown in the figure below, was developed for installation in compressors with 16 and 19 mm diameters holes in the base plate.



### Metal Bushing

Engineering Code	13126755
Dimensions	mm (Inch)

As an optional assembly accessory, Embraco can supply metal bushings, the purpose of 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 chromated zinc.



**Accessories**