

Compressor Technical Data

Model: EMT2121GK

Code: 912CA62

Description

Refrigerant:	R-404A	Displacement (cm ³):	5,19
Voltage:	220-240 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	180
Application:	LBP	Motor Type:	CSIR
HP:	1/3	Starting Torque:	HST
Efficiency:	4,79	Type of Test:	ASHRAE32
Capacity:	1024,00		

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:	Fan Cooling
Air flow rate:	

Mechanical Data

Bill of materials:	912CA62
Starting torque:	High Starting Torque
Bore (mm):	21,00
Stroke (mm):	7,50
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 54,4 °C

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)			(Btu/h)	(W)	(A)
-23,3	265	308	1.051	219	1,38	1,21	1,41	4,80

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)
-40	127	148	506	135	1,14	3,40	0,94	1,10	3,74
-35	169	196	669	152	1,18	4,51	1,11	1,29	4,40
-30	217	252	860	170	1,23	5,82	1,27	1,48	5,06
-25	274	318	1.086	189	1,28	7,38	1,45	1,68	5,75
-20	341	397	1.354	208	1,34	9,24	1,64	1,90	6,50
-15	421	489	1.670	228	1,40	11,48	1,85	2,15	7,34
-10	515	598	2.042	246	1,47	14,13	2,09	2,43	8,30

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)
-40	120	139	475	140	1,14	3,19	0,86	1,00	3,40
-35	158	184	627	158	1,19	4,22	1,00	1,16	3,96
-30	203	236	807	179	1,25	5,45	1,14	1,32	4,51
-25	257	299	1.020	201	1,31	6,91	1,28	1,49	5,07
-20	321	373	1.273	224	1,39	8,68	1,43	1,66	5,68
-15	397	461	1.574	248	1,47	10,80	1,60	1,86	6,35
-10	486	566	1.930	272	1,56	13,32	1,79	2,08	7,10

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)
-40	113	131	448	141	1,13	3,00	0,80	0,93	3,18
-35	150	174	594	162	1,19	3,99	0,93	1,08	3,68
-30	193	225	766	185	1,27	5,16	1,04	1,21	4,14
-25	244	284	970	211	1,35	6,56	1,16	1,35	4,61
-20	306	356	1.214	238	1,45	8,25	1,29	1,50	5,10

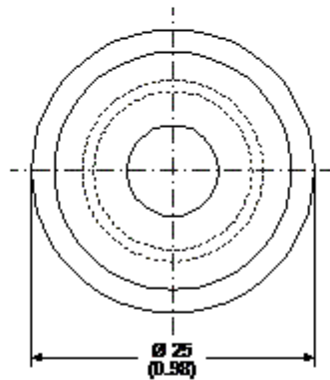
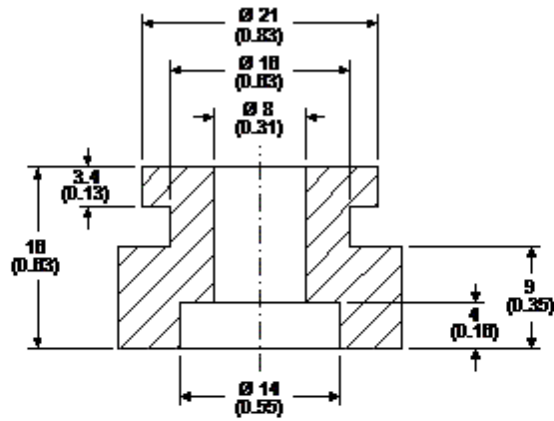
-15	379	441	1.503	267	1,55	10,29	1,42	1,65	5,64
-10	465	541	1.846	296	1,66	12,72	1,57	1,83	6,23

Dimensions

Rubber Grommet

Engineering Code	13146411
Dimensions	mm (Inch)

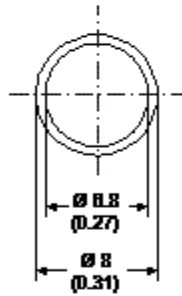
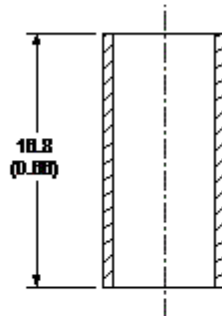
The grommets are made of special rubber and used in the nut and bolt type or in the snap on type assembly. The rubber grommet, the dimensions of which are shown in the figure below, was developed for installation in compressors with 16 and 19 mm diameters holes in the base plate.



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