

Compressor Technical Data

Model: EGAS100HLR

Code: 513701060

Description

Refrigerant:	R-134a	Displacement (cm ³):	7,95
Voltage:	220-240 V 50-60 Hz 1 ~	Lubricant Type:	ISO10
Frequency (Hz):	50	Lubricant Charge (ml):	230
Application:	LBP	Motor Type:	RSIR-CSIR
HP:	1/3	Starting Torque:	LST
Efficiency:	5,20	Type of Test:	ASHRAE32
Capacity:	855,00		

Approval

CCC

TUV

UL

VDE

Data

External Features

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

Oil Cooler:	
Base Plate:	European Standard EG/F/AMEM Version 2
Tray Holder:	No
Weight (kg):	10,94

Application

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

Mechanical Data

Bill of materials:	513701060
Starting torque:	Low Starting Torque
Bore (mm):	22,50
Stroke (mm):	10,00
Weight (kg):	10,94

Electrical Data

Motor type:	RSIR-CSIR
Winding Resistance (25°C) - Start:	8,80
Winding Resistance (25°C) - Run:	34,00

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	215	250	853	164	1,36	1,31	1,52	5,19

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)
-35	111	130	442	110	0,94	2,50	1,01	1,17	4,00
-30	156	182	620	130	1,10	3,52	1,20	1,40	4,76
-25	209	243	828	151	1,26	4,70	1,39	1,61	5,50
-20	271	315	1.074	172	1,42	6,11	1,57	1,83	6,25
-15	345	401	1.369	194	1,59	7,82	1,78	2,06	7,04
-10	434	505	1.724	218	1,79	9,88	1,99	2,31	7,89

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)
-35	91	106	362	106	0,90	2,05	0,86	1,00	3,42
-30	140	162	554	131	1,10	3,14	1,07	1,24	4,24
-25	194	225	769	156	1,29	4,36	1,24	1,44	4,93
-20	256	298	1.016	182	1,49	5,78	1,41	1,64	5,59
-15	329	383	1.306	209	1,70	7,45	1,58	1,83	6,25
-10	415	483	1.649	237	1,94	9,44	1,75	2,04	6,95

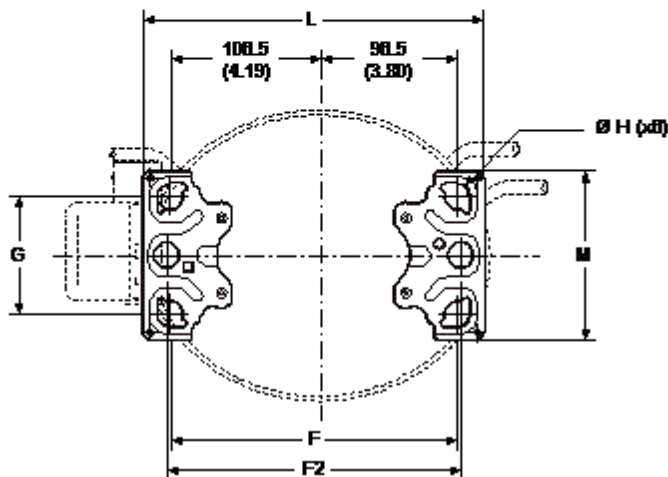
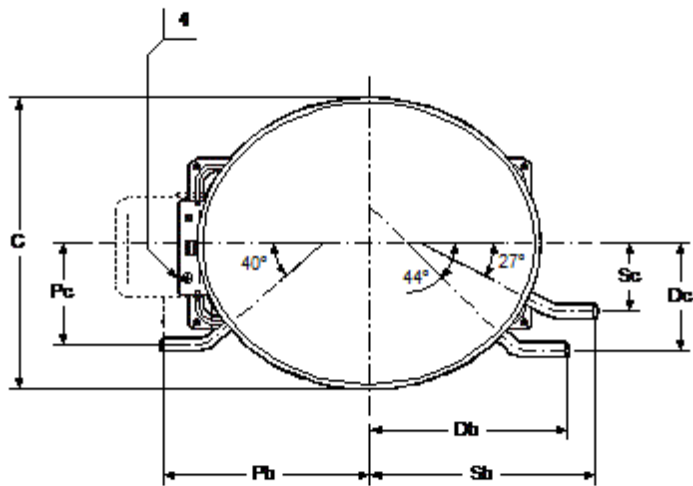
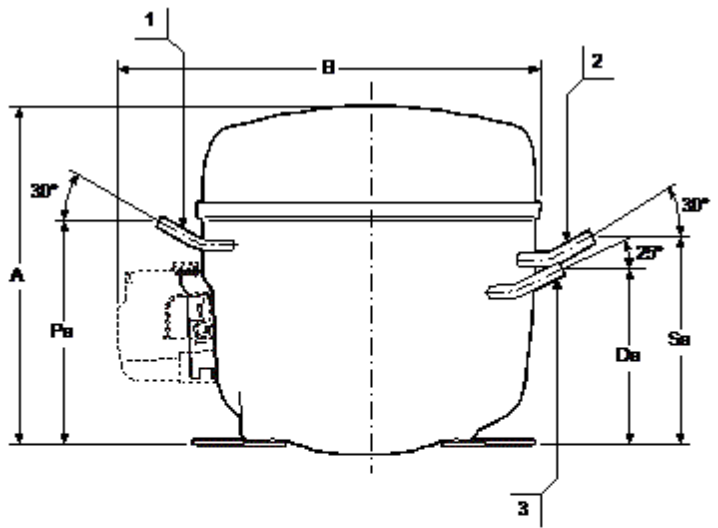
Condensing Temperature 65 °C

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Gas Flow Rate +/- 5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)				(Btu/h)	(W)	(A)
-35	66	77	263	89	0,78	1,49	0,74	0,86	2,94
-30	119	138	471	122	1,04	2,67	0,97	1,13	3,86
-25	175	204	695	155	1,30	3,94	1,13	1,32	4,49
-20	238	277	945	188	1,56	5,38	1,27	1,47	5,03
-15	310	361	1.231	222	1,83	7,03	1,40	1,63	5,55
-10	394	458	1.564	257	2,11	8,96	1,54	1,79	6,09

Dimensions

Compressor Housing

	mm	inch		mm	inch		mm	inch		mm	inch
A	201,00	7,91	Rb	---	---	Sa	124,00	4,88	Rc	---	---
B	251,00	9,88	F	170,00	6,69	Pa	132,00	5,20	G1	---	---
C	173,00	6,81	G	70,00	2,76	Da	104,00	4,09	F2	178,00	7,01
E	---	---	F1	---	---	Ra	---	---	N	---	---
Sb	132,00	5,20	T	---	---	Sc	40,00	1,57	L	203,00	7,99
Pb	125,00	4,92	M	100,00	3,94	Pc	60,00	2,36	H	16,00	0,63
Db	115,00	4,53	J	---	---	Dc	63,00	2,48	H1	---	---

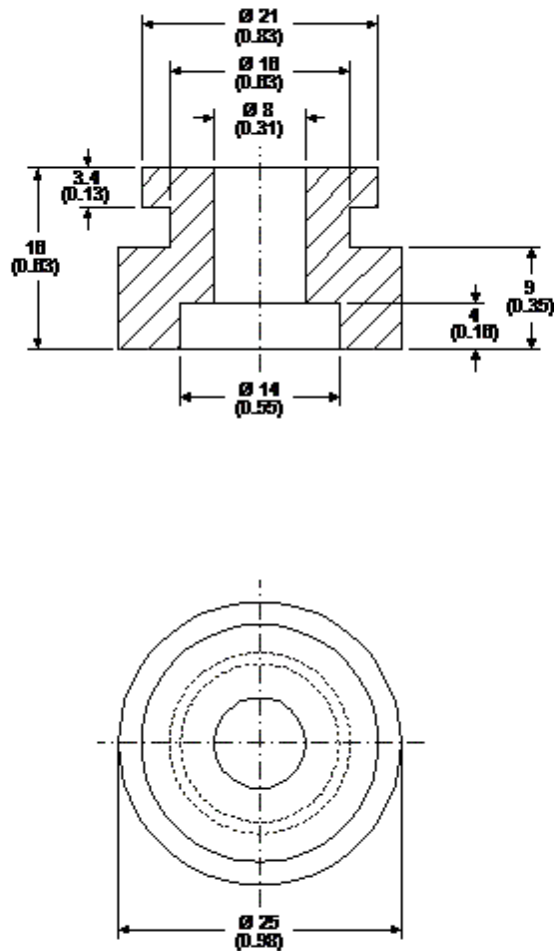


1 - Process Connector 2 - Suction Connector 3 - Discharge Connector 4 - Earthing Terminal 6 - Tray Hold

Rubber Grommet

Engineering Code	13146411
Dimensions	mm (Inch)

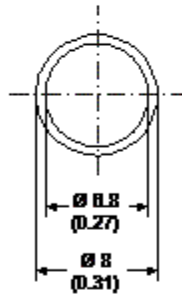
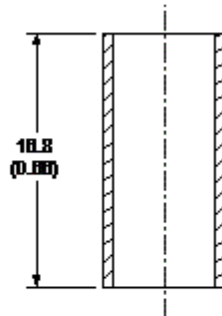
The grommets are made of special rubber and used in the nut and bolt type or in the snap on type assembly. The rubber grommet, the dimensions of which are shown in the figure below, was developed for installation in compressors with 16 and 19 mm diameters holes in the base plate.



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