Compressor Technical Data

Model: NEK6214U

Code: 863HA51

Description

Refrigerant:	R-290	Displacement (cm³):	12,11
Voltage:	220-240 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	350
Application:	MBP	Motor Type:	CSIR
HP:	1/2	Starting Torque:	HST
Efficiency:	6,53	Type of Test:	EN12900HH
Capacity:	3002,00		

Approval

VDE

Data

External Features

	Shape	Material	Diameter (mm)
Suction Connector	Slanted 42°	Copper	8,10
Discharge Connector	Straight	Copper	6,10
Process Connector	Slanted 42°	Copper	6,10

Oil Cooler:	
Base Plate:	European Standard
Tray Holder:	No
Weight (kg):	11,70

Application

Maximum ambient temperature (ºC):	32
Expansion device:	Capillary/ Valve
Cooling:	Fan Cooling
Air flow rate:	

Mechanical Data

Bill of materials:	863HA51
Starting torque:	High Starting Torque
Bore (mm):	27,78
Stroke (mm):	10,00
Weight (kg):	11,70

Electrical Data

Motor type:	CSIR
Winding Resistance (25ºC) - Start:	4,19
Winding Resistance (25ºC) - Run:	18,67

Check Point - Condensing Temperature 45 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)
-10	755	878	2.995	470	2,95	1,60	1,87	6,37

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	582	677	2.311	364	2,56	7,08	1,60	1,86	6,34
-15	710	826	2.818	395	2,68	8,65	1,80	2,09	7,13
-10	864	1.005	3.428	424	2,79	10,55	2,04	2,37	8,08
-5	1.043	1.213	4.139	452	2,90	12,81	2,31	2,68	9,15
0	1.248	1.452	4.953	479	3,00	15,43	2,61	3,03	10,35
5	1.479	1.720	5.869	504	3,10	18,43	2,94	3,41	11,65
10	1.736	2.019	6.888	528	3,19	21,83	3,29	3,83	13,06

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	481	560	1.910	394	2,66	6,35	1,22	1,42	4,85
-15	610	709	2.420	433	2,81	8,11	1,41	1,64	5,59
-10	755	878	2.995	470	2,95	10,10	1,60	1,87	6,37
-5	916	1.065	3.636	506	3,10	12,33	1,81	2,11	7,18
0	1.094	1.272	4.342	540	3,24	14,82	2,03	2,36	8,04
5	1.288	1.499	5.113	573	3,39	17,58	2,25	2,62	8,92
10	1.499	1.744	5.950	604	3,53	20,62	2,48	2,89	9,85

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	429	498	1.701	418	2,74	6,28	1,03	1,19	4,07
-15	529	616	2.101	468	2,93	7,80	1,13	1,32	4,49
-10	638	742	2.531	516	3,13	9,45	1,23	1,44	4,90

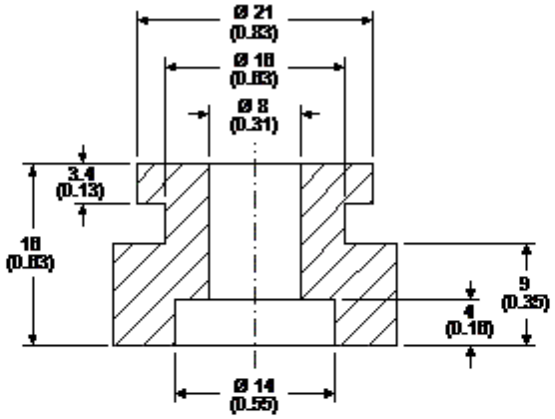
-5	753	876	2.989	563	3,33	11,22	1,34	1,55	5,31
0	876	1.019	3.475	609	3,53	13,15	1,44	1,67	5,71
5	1.006	1.170	3.991	652	3,74	15,24	1,54	1,79	6,12
10	1.143	1.329	4.535	694	3,95	17,50	1,65	1,91	6,53

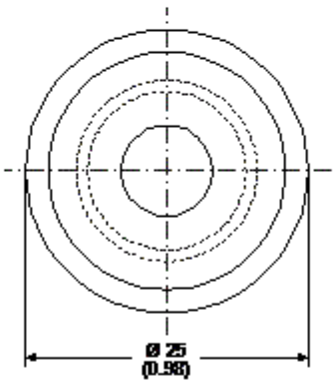
Dimensions

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.





Accessories