

Compressor Technical Data

Model: NEK2150U

Code: 863AA51

Description

Refrigerant:	R-290	Displacement (cm ³):	13,54
Voltage:	220-240 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	350
Application:	LBP	Motor Type:	CSIR
HP:	1/2+	Starting Torque:	HST
Efficiency:	4,47	Type of Test:	ASHRAE32
Capacity:	1985,00		

Approval

CCC

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):	11,60

Application

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

Mechanical Data

Bill of materials:	863AA51
Starting torque:	High Starting Torque
Bore (mm):	29,36
Stroke (mm):	10,00
Weight (kg):	11,60

Electrical Data

Motor type:	CSIR
Winding Resistance (25°C) - Start:	4,20
Winding Resistance (25°C) - Run:	30,40

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	503	584	1.994	443	2,97	1,13	1,32	4,50

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	240	279	952	273	2,45	2,81	0,88	1,02	3,49
-35	316	368	1.255	311	2,55	3,71	1,02	1,18	4,04
-30	413	480	1.637	348	2,66	4,86	1,18	1,38	4,70
-25	529	615	2.098	386	2,78	6,24	1,37	1,59	5,44
-20	664	773	2.636	423	2,91	7,87	1,57	1,83	6,24
-15	820	953	3.252	459	3,04	9,74	1,78	2,08	7,08
-10	994	1.157	3.946	495	3,17	11,87	2,01	2,33	7,96

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	227	264	902	279	2,47	2,66	0,81	0,95	3,23
-35	297	345	1.177	320	2,58	3,48	0,93	1,08	3,68
-30	386	449	1.531	363	2,71	4,54	1,06	1,24	4,22
-25	495	576	1.964	406	2,85	5,84	1,22	1,42	4,83
-20	624	725	2.475	451	3,01	7,38	1,38	1,61	5,49
-15	772	898	3.065	497	3,18	9,18	1,55	1,81	6,17
-10	941	1.094	3.733	544	3,36	11,23	1,73	2,01	6,86

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	215	250	852	285	2,49	2,52	0,75	0,88	2,99
-35	277	322	1.099	330	2,61	3,25	0,84	0,98	3,33
-30	359	418	1.425	377	2,75	4,22	0,95	1,11	3,78
-25	461	536	1.830	427	2,92	5,44	1,08	1,26	4,29
-20	583	678	2.314	479	3,11	6,90	1,22	1,42	4,83

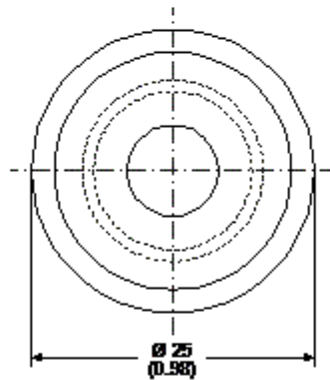
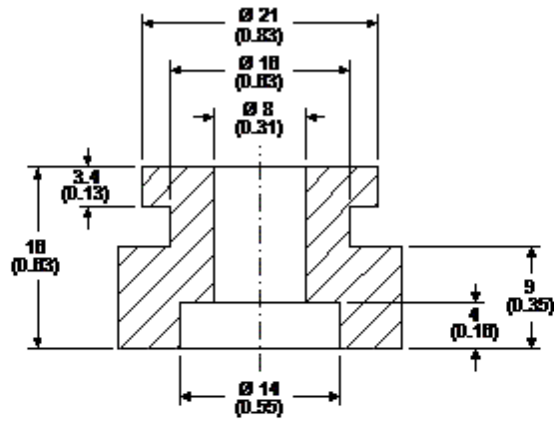
-15	725	843	2.878	535	3,32	8,62	1,36	1,58	5,38
-10	887	1.031	3.520	593	3,55	10,59	1,50	1,74	5,94

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.



Accessories