

## Compressor Technical Data

**Model:** NEK2121U

**Code:** 861BA51

### Description

Refrigerant:	R-290	Displacement (cm <sup>3</sup> ):	6,2
Voltage:	220-240 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	350
Application:	LBP	Motor Type:	CSIR
HP:	1/4	Starting Torque:	HST
Efficiency:	4,07	Type of Test:	ASHRAE32
Capacity:	842,00		

### 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):	10,40

#### Application

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

#### Mechanical Data

Bill of materials:	861BA51
Starting torque:	High Starting Torque
Bore (mm):	20,87
Stroke (mm):	9,06
Weight (kg):	10,40

#### Electrical Data

Motor type:	CSIR
Winding Resistance (25°C) - Start:	6,80
Winding Resistance (25°C) - Run:	28,90

**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	213	248	846	207	1,63	1,03	1,20	4,09

**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	106	123	420	148	1,51	1,24	0,72	0,83	2,84
-35	137	159	542	163	1,54	1,60	0,84	0,97	3,32
-30	178	207	706	178	1,57	2,09	1,00	1,16	3,97
-25	230	268	914	192	1,60	2,72	1,20	1,40	4,76
-20	293	341	1.164	205	1,63	3,48	1,43	1,66	5,67
-15	368	428	1.459	218	1,67	4,37	1,68	1,96	6,68
-10	453	527	1.797	231	1,71	5,41	1,96	2,28	7,79

**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	91	106	363	143	1,50	1,07	0,64	0,75	2,54
-35	121	141	481	161	1,53	1,42	0,75	0,88	2,99
-30	161	188	640	178	1,57	1,90	0,90	1,05	3,59
-25	212	246	840	196	1,61	2,50	1,08	1,26	4,29
-20	273	317	1.082	213	1,65	3,23	1,28	1,49	5,08
-15	344	400	1.366	230	1,70	4,09	1,50	1,74	5,93
-10	426	496	1.691	247	1,76	5,09	1,73	2,01	6,85

**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	77	90	306	138	1,49	0,90	0,56	0,65	2,22
-35	106	123	420	158	1,53	1,24	0,67	0,78	2,65
-30	145	168	574	179	1,57	1,70	0,81	0,94	3,20
-25	193	225	767	200	1,62	2,28	0,97	1,12	3,84
-20	252	293	1.000	221	1,67	2,98	1,14	1,33	4,53

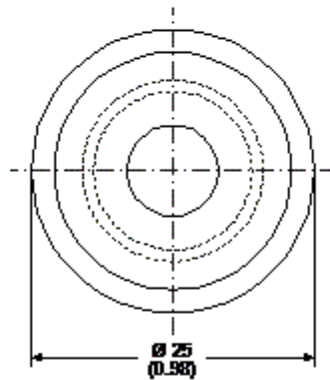
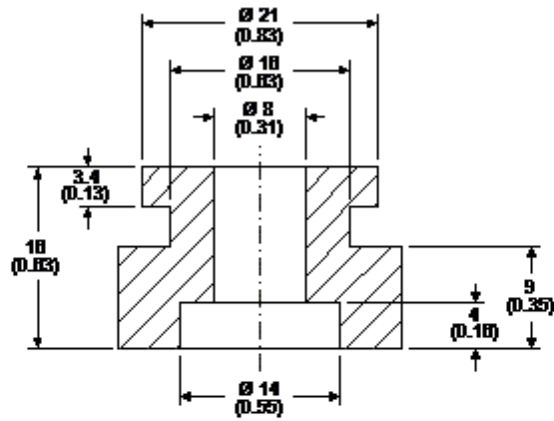
-15	321	373	1.273	242	1,74	3,81	1,33	1,54	5,26
-10	400	465	1.585	263	1,81	4,77	1,52	1,77	6,03

## 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**