

## Compressor Technical Data

**Model:** NEK2172GK

**Code:** 959KC51

### Description

Refrigerant:	R-404A	Displacement (cm <sup>3</sup> ):	16,8
Voltage:	220 V 50 Hz 1 ~	Lubricant Type:	ISO22
Frequency (Hz):	50	Lubricant Charge (ml):	350
Application:	LBP	Motor Type:	CSCR
HP:	3/4	Starting Torque:	HST
Efficiency:	3,54	Type of Test:	EN12900
Capacity:	1574,00		

### 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):	11,80

#### Application

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

#### Mechanical Data

Bill of materials:	959KC51
Starting torque:	High Starting Torque
Bore (mm):	31,19
Stroke (mm):	11,00
Weight (kg):	11,80

#### Electrical Data

Motor type:	CSCR
Winding Resistance (25°C) - Start:	3,10
Winding Resistance (25°C) - Run:	13,90

**Check Point - Condensing Temperature 40 °C**

Evaporating Temperature	Cooling Capacity			Power Consumption +/- 5%	Current Consumption +/-5%	Efficiency +/-7%		
	(°C)	(kcal/h)	(W)			(Btu/h)	(W)	(A)
-35	397	462	1.575	442	2,71	0,90	1,05	3,57

**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	323	375	1.281	377	2,50	9,53	0,86	1,00	3,40
-35	431	501	1.709	432	2,68	12,79	1,00	1,16	3,95
-30	564	656	2.237	490	2,89	16,81	1,15	1,34	4,56
-25	722	840	2.866	551	3,12	21,64	1,31	1,52	5,20
-20	906	1.053	3.594	616	3,38	27,31	1,47	1,71	5,84
-15	1.115	1.296	4.423	683	3,66	33,86	1,63	1,90	6,48
-10	1.348	1.568	5.351	753	3,96	41,34	1,79	2,08	7,10

**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	269	312	1.066	388	2,52	9,01	0,69	0,80	2,75
-35	361	420	1.433	448	2,73	12,16	0,81	0,94	3,20
-30	475	553	1.886	513	2,97	16,07	0,93	1,08	3,67
-25	611	711	2.425	583	3,24	20,79	1,05	1,22	4,16
-20	769	894	3.051	658	3,54	26,35	1,17	1,36	4,63
-15	948	1.103	3.763	738	3,88	32,79	1,28	1,49	5,10
-10	1.149	1.337	4.561	822	4,25	40,15	1,40	1,63	5,55

**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	208	241	824	386	2,50	8,15	0,54	0,62	2,13
-35	284	330	1.125	454	2,74	11,19	0,62	0,73	2,48
-30	378	439	1.499	528	3,01	14,99	0,72	0,83	2,84
-25	490	570	1.945	609	3,34	19,60	0,80	0,94	3,19

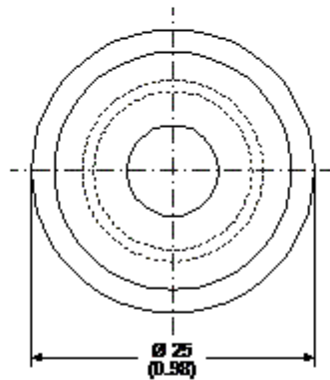
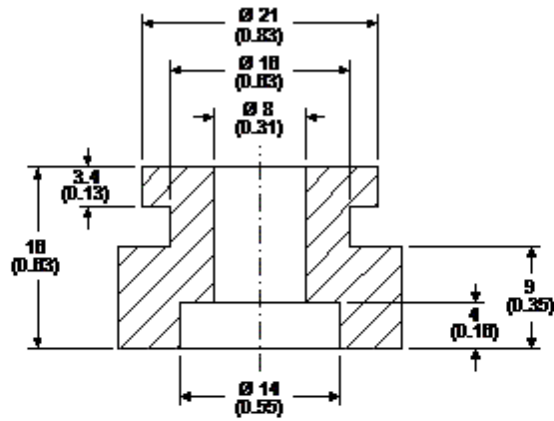
-20	621	722	2.464	697	3,70	25,04	0,89	1,04	3,54
-15	770	895	3.055	791	4,10	31,37	0,97	1,13	3,86
-10	937	1.090	3.719	891	4,55	38,63	1,05	1,22	4,17

## 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**