

NEK6210GK



**ENGINEERING CODE**  
958CA51

**REFRIGERANT**  
R-404A

**POWER SUPPLY**  
220-240 V 50 Hz

**APPLICATION**  
MBP

**MOTOR TYPE**  
CSIR

**STANDARD**  
ASHRAE

**COOLING CAPACITY**  
777 W

**EFFICIENCY**  
1.59 W/W



DATA

GENERAL DATA

Model	NEK6210GK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/2
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	28.84 Ω at 25°C
Run Winding Resistance	6.67 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	15.8 A

## MECHANICAL DATA

Displacement	8.77 cm <sup>3</sup>
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11 Kg

## ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	DRB34K52AYF T0660/G5

## EXTERNAL CHARACTERISTICS

Base Plate	SMALL
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Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-404A
Tested Application	MBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	220 V
Tested Frequency	50 Hz
Refrigerant Temperature	Dew

**RATED POINTS**

Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
54.4	-6.7	777	1.59	487	2.92	21.19

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

**PERFORMANCE CURVE****Condensing Temperature 35°C**

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	635	1.96	324	2.26	13.78
-15	774	2.18	355	2.38	16.92
-10	942	2.42	389	2.50	20.72
-5	1144	2.71	421	2.61	25.32
0	1382	3.09	448	2.72	30.85
5	1659	3.58	464	2.82	37.44
10	1980	4.25	466	2.92	45.23

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

**PERFORMANCE CURVE****Condensing Temperature 45°C**

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-20	546	1.53	358	2.31	13.09
-15	668	1.70	393	2.48	16.12
-10	814	1.88	434	2.64	19.78
-5	988	2.07	478	2.80	24.20
0	1193	2.30	519	2.95	29.51
5	1432	2.58	555	3.09	35.83
10	1709	2.95	580	3.23	43.31

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

**PERFORMANCE CURVE****Condensing Temperature 55°C**

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	673	1.48	455	2.79	18.38
-5	820	1.62	506	3.00	22.61
0	992	1.78	558	3.20	27.68
5	1193	1.96	609	3.40	33.74
10	1427	2.18	653	3.59	40.90

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

## ENVELOPE



## EXTERNAL DIMENSIONS

