

NEK6210U



ENGINEERING CODE
862CA41



REFRIGERANT
R-290



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
MBP



MOTOR TYPE
CSIR



STANDARD
EN12900



COOLING CAPACITY
606 W



EFFICIENCY
1.76 W/W



DATA

GENERAL DATA

Model	NEK6210U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/3
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	31.7 Ω at 25°C
Run Winding Resistance	5.18 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	16.1 A

MECHANICAL DATA

Displacement	8.77 cm ³
Oil Charge	350 ml
Oil Type	AB
Oil Viscosity	ISO32
Weight	10.5 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-0029*
Overload Protection	T0964/G6

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	NO

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-290
Tested Application	MBP
Tested Standard	EN12900
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
45	-10	606	1.76	344	2.41	7.46

Test Condition: Subcooling 0 K, Return Gas 20 °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	461	1.71	270	2.18	5.11
-15	568	1.96	289	2.25	6.33
-10	698	2.26	309	2.31	7.81
-5	851	2.61	325	2.35	9.58
0	1029	3.06	336	2.39	11.68
5	1234	3.65	338	2.42	14.13
10	1467	4.48	328	2.44	16.97

Test Condition: Subcooling 0 K, Return Gas 20 °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	399	1.34	297	2.24	4.85
-15	493	1.54	319	2.33	6.04
-10	606	1.76	344	2.41	7.46
-5	740	2.00	369	2.48	9.17
0	895	2.29	391	2.55	11.18
5	1073	2.63	407	2.61	13.54
10	1276	3.08	415	2.66	16.27

Test Condition: Subcooling 0 K, Return Gas 20 °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	507	1.38	366	2.52	6.96
-5	621	1.57	397	2.63	8.60
0	753	1.76	427	2.73	10.53
5	905	1.99	455	2.82	12.79
10	1079	2.26	476	2.91	15.42

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS

