

NEK6214U



**ENGINEERING CODE**  
863HA51



**REFRIGERANT**  
R-290



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



**APPLICATION**  
MBP



**MOTOR TYPE**  
CSIR



**STANDARD**  
EN12900



**COOLING CAPACITY**  
860 W



**EFFICIENCY**  
1.82 W/W



DATA

GENERAL DATA

Model	NEK6214U
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	18.67 $\Omega$ at 25°C
Run Winding Resistance	4.19 $\Omega$ at 25°C
Locked Rotor Amperage (LRA) 50Hz	17 A
Rated Load Amperage (LMBP) at 50 Hz	4 A

## MECHANICAL DATA

Displacement	12.11 cm <sup>3</sup>
Oil Charge	350 ml
Oil Type	AB
Oil Viscosity	ISO32
Weight	11.7 Kg

## ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-0027*
Overload Protection	T0741/G6

## PERFORMANCE

### TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
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	860	1.82	473	-	10.59

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

### 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	648	1.80	360	-	7.19
-15	805	2.05	392	-	8.95
-10	996	2.34	425	-	11.15
-5	1216	2.67	455	-	13.70
0	1457	3.04	480	-	16.55
5	1713	3.47	494	-	19.63
10	1978	3.99	495	-	22.87

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

## 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	577	1.45	399	-	7.02
-15	704	1.62	433	-	8.61
-10	860	1.82	473	-	10.59
-5	1040	2.02	515	-	12.89
0	1237	2.23	556	-	15.46
5	1444	2.44	591	-	18.22
10	1655	2.68	618	-	21.10

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

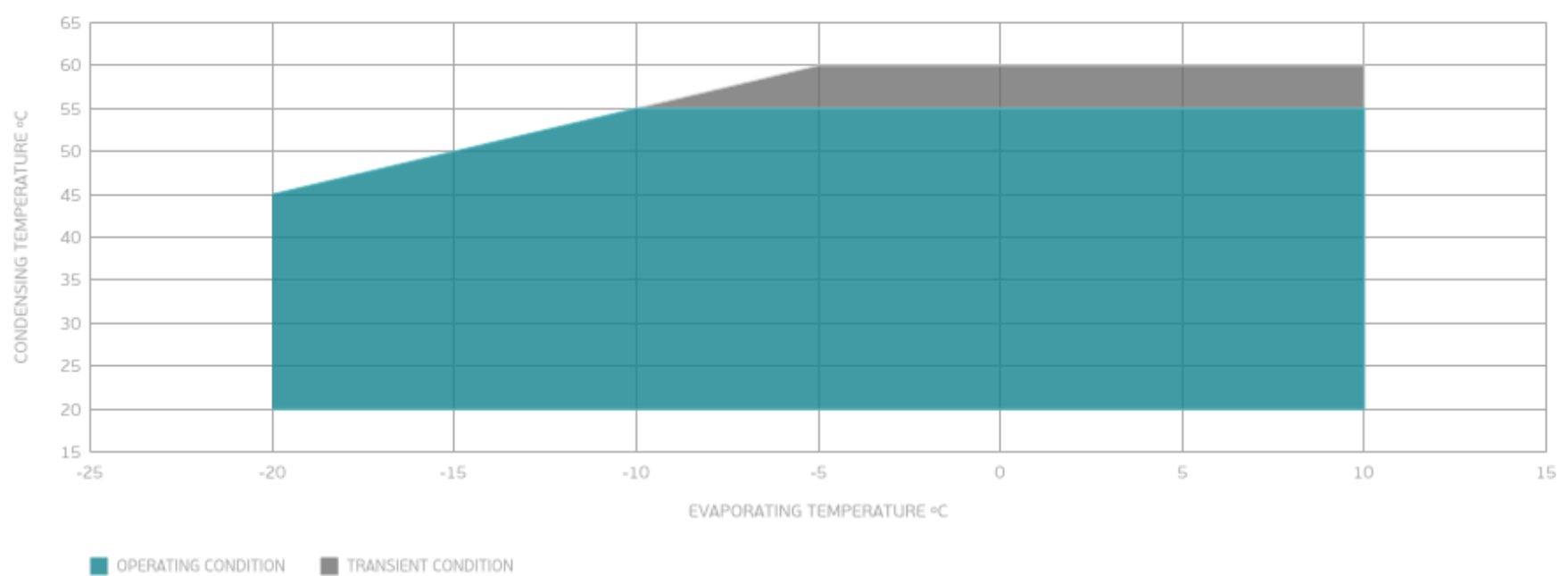
## PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	706	1.42	498	-	9.70
-5	849	1.55	546	-	11.75
0	1004	1.68	598	-	14.02
5	1165	1.80	649	-	16.44
10	1325	1.90	696	-	18.96

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

## ENVELOPE



## External

### EXTERNAL CHARACTERISTICS

Base Plate		SMALL	
Tray Holder		NO	
<b>Connector</b>	<b>Internal Diameter</b>	<b>Shape</b>	<b>Material</b>
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER

**EXTERNAL DIMENSIONS**

**SHELL**



**BASE**



**FENCE**

