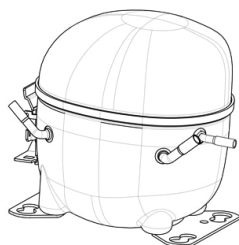


NEK6214Z



**ENGINEERING CODE**  
269JA51

**REFRIGERANT**  
R-134a

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

**APPLICATION**  
HBP

**MOTOR TYPE**  
CSIR

**STANDARD**  
ASHRAE

**COOLING CAPACITY**  
1464 W

**EFFICIENCY**  
1.96 W/W



DATA

GENERAL DATA

Model	NEK6214Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/2
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	10.63 Ω at 25°C
Run Winding Resistance	3.13 Ω at 25°C

## MECHANICAL DATA

Displacement	16.8 cm <sup>3</sup>
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.6 Kg

## ELECTRICAL COMPONENTS

Start Capacitor	72-88 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T0899/G6

## EXTERNAL CHARACTERISTICS

Base Plate	SMALL
------------	-------

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-134a
Tested Application	HBP
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	7.2	1464	1.96	746	-	32.39

Test Condition: Subcooling 8.3 K, Return Gas 35 °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
-15	696	1.69	412	-	12.84
-10	890	1.94	457	-	16.48
-5	1120	2.20	509	-	20.82
0	1388	2.48	560	-	25.92
5	1696	2.82	602	-	31.83
10	2043	3.25	629	-	38.59

Test Condition: Subcooling 8.3 K, Return Gas 35 °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
-15	613	1.37	447	-	12.22
-10	786	1.60	491	-	15.73
-5	993	1.81	550	-	19.96
0	1236	2.01	615	-	24.95
5	1515	2.22	681	-	30.76
10	1831	2.47	740	-	37.44

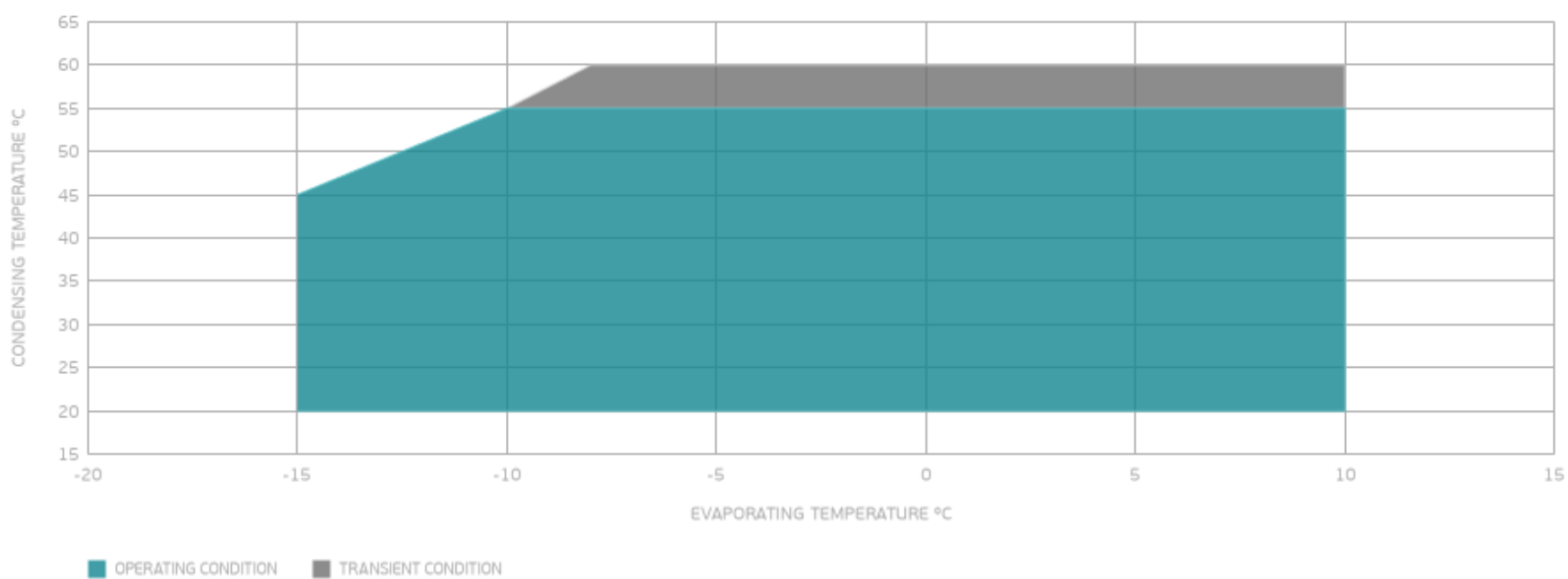
Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data are an indication of performance based simulation.

**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	685	1.34	510	-	14.95
-5	868	1.54	564	-	19.02
0	1083	1.71	634	-	23.86
5	1331	1.87	712	-	29.53
10	1615	2.04	792	-	36.08

Test Condition: Subcooling 8.3 K, Return Gas 35 °C. Data are an indication of performance based simulation.

## ENVELOPE



## EXTERNAL DIMENSIONS

