

NEK2116Z



ENGINEERING CODE
267FA42

REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
187 W

EFFICIENCY
1.27 W/W



DATA

GENERAL DATA

Model	NEK2116Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Static/220
HP	1/5
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	null
Run Winding Resistance	null

MECHANICAL DATA

Displacement	7.37 cm ³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.4 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T0827/G6

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
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Connector	Internal Diameter	Shape	Material
Suction	6.1 mm	SLANTED 42°	COPPER
Discharge	4.86 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	LBP
Tested Standard	ASHRAE
Tested Cooling	Static
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	-23.3	187	1.27	147	-	3.62

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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
-30	146	1.25	117	-	2.83
-25	201	1.50	135	-	3.90
-20	266	1.73	154	-	5.17
-15	340	1.96	174	-	6.63
-10	423	2.18	194	-	8.28
-5	516	2.42	213	-	10.13

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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
-30	130	1.08	120	-	2.51
-25	184	1.32	139	-	3.57
-20	248	1.54	162	-	4.82
-15	322	1.73	186	-	6.28
-10	406	1.91	213	-	7.94
-5	499	2.08	240	-	9.79

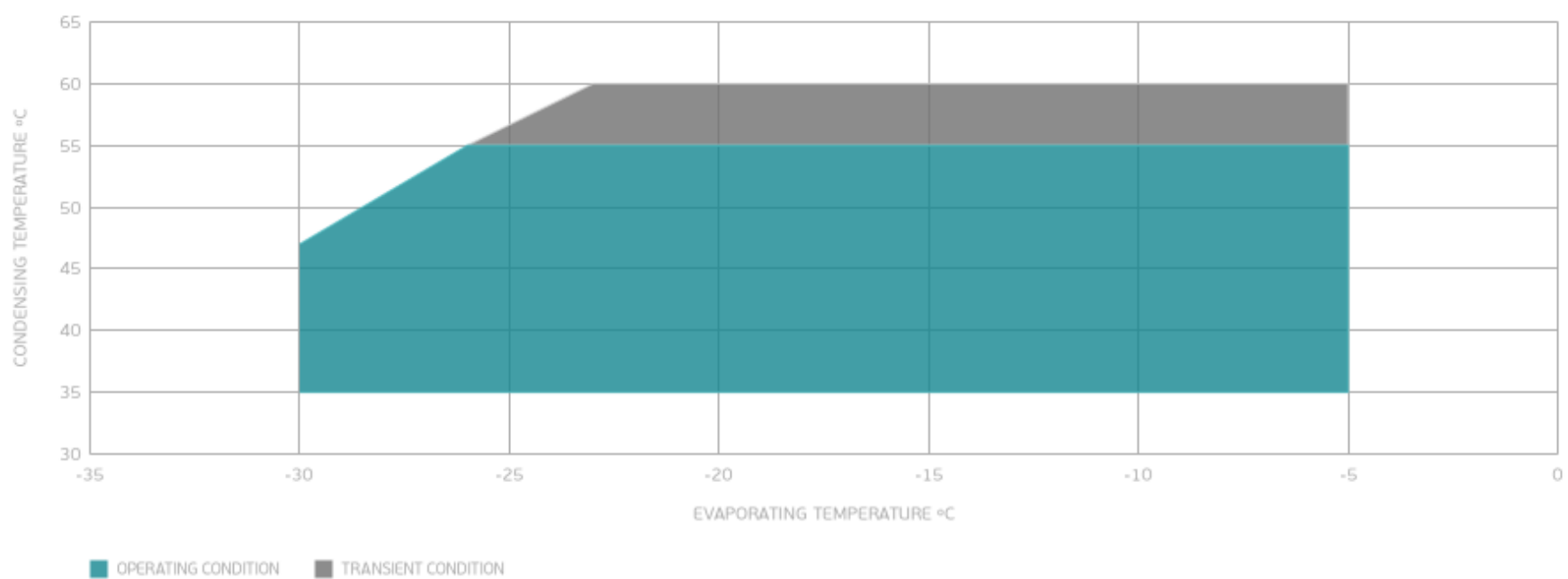
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data are an indication of performance based simulation.

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
-25	165	1.18	140	-	3.20
-20	228	1.39	164	-	4.44
-15	302	1.57	192	-	5.89
-10	385	1.73	223	-	7.54
-5	479	1.87	257	-	9.40

Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS

