

NEK2140Z



ENGINEERING CODE
269GG92



REFRIGERANT
R-134a



POWER SUPPLY
115 V 60 Hz



APPLICATION
LBP



MOTOR TYPE
CSIR



STANDARD
ASHRAE



COOLING CAPACITY
493 W



EFFICIENCY
1.2 W/W



DATA

GENERAL DATA

Model	NEK2140Z
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/115
HP	1/2
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	6.54 Ω at 25°C
Run Winding Resistance	0.89 Ω at 25°C
Locked Rotor Amperage (LRA) 60Hz	40 A

MECHANICAL DATA

Displacement	16.8 cm ³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11 Kg

ELECTRICAL COMPONENTS

Start Capacitor	189-227 μf/250 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T0793/J5

EXTERNAL CHARACTERISTICS

Base Plate	UNI
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Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.45 mm	STRAIGHT	COPPER
Process	6.45 mm	SLANTED 42°	COPPER

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-134a
Tested Application	LBP
Tested Standard	ASHRAE
Tested Cooling	Fan
Tested Voltage	115 V
Tested Frequency	60 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	493	1.2	412	5.95	9.57
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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
-30	375	1.16	324	5.55	7.26
-25	506	1.36	373	5.74	9.81
-20	667	1.56	428	6.01	12.95
-15	858	1.76	488	6.36	16.71
-10	1079	1.97	549	6.79	21.11
-5	1332	2.19	608	7.29	26.16
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.					

PERFORMANCE CURVE

Condensing Temperature 45°C

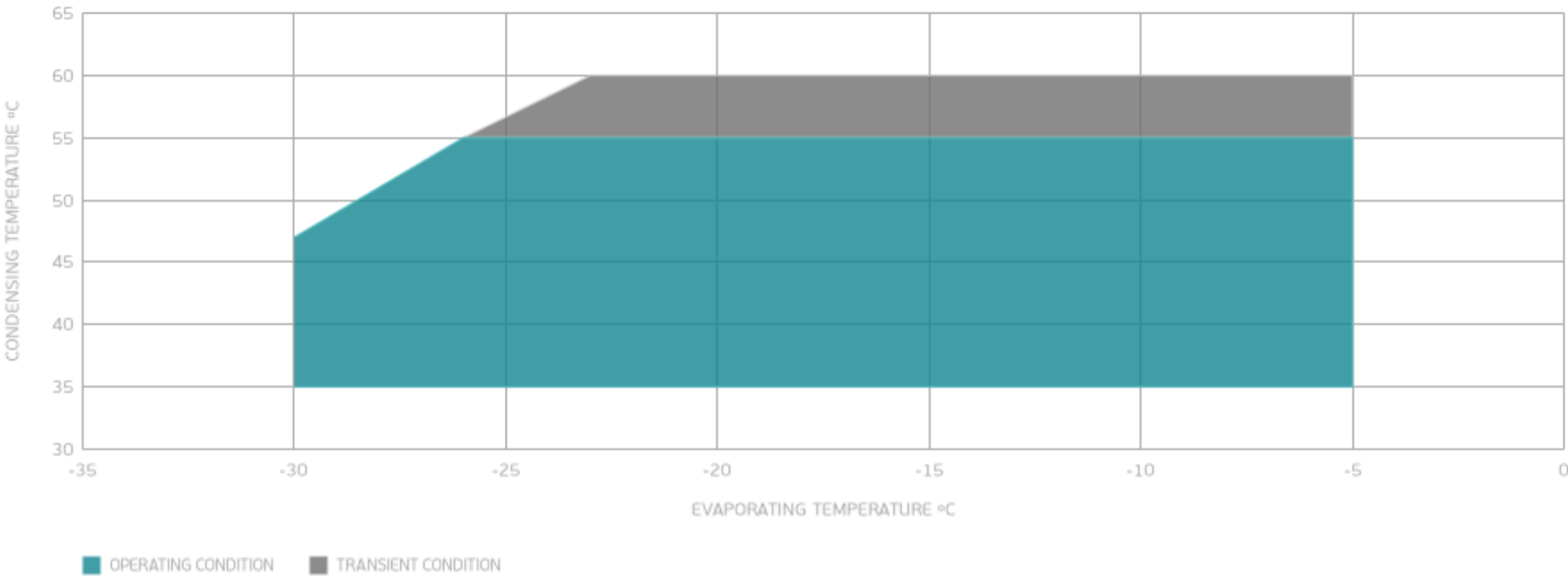
Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	351	1.05	336	5.54	6.80
-25	475	1.22	388	5.78	9.20
-20	629	1.39	451	6.11	12.22
-15	815	1.56	523	6.53	15.88
-10	1032	1.72	601	7.03	20.19
-5	1282	1.88	682	7.63	25.19
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °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
-25	446	1.14	391	5.84	8.65
-20	591	1.29	457	6.23	11.49
-15	769	1.43	536	6.71	14.99
-10	980	1.56	627	7.29	19.17
-5	1225	1.69	725	7.98	24.06
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.					

ENVELOPE



EXTERNAL DIMENSIONS

