

NEK2168GK



ENGINEERING CODE
959HA51



REFRIGERANT
R-404A



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
LBP



MOTOR TYPE
CSCR



STANDARD
EN12900



COOLING CAPACITY
381 W



EFFICIENCY
0.97 W/W



DATA

GENERAL DATA

Model	NEK2168GK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	3/4
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	13.9 Ω at 25°C
Run Winding Resistance	3.1 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	24 A

MECHANICAL DATA

Displacement	14.28 cm ³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.6 Kg

ELECTRICAL COMPONENTS

Start Capacitor	88-108 µf/330 V
CSR CSIR BOX	Yes
Overload Protection	T0634/G9

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
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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-404A
Tested Application	LBP
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
40	-35	381	0.97	390	-	10.31
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
-40	315	0.93	339	-	7.99
-35	419	1.09	383	-	10.69
-30	549	1.27	431	-	14.08
-25	707	1.47	483	-	18.21
-20	892	1.67	534	-	23.13
-15	1105	1.90	583	-	28.87
-10	1346	2.15	626	-	35.47
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.					

PERFORMANCE CURVE

Condensing Temperature 45°C

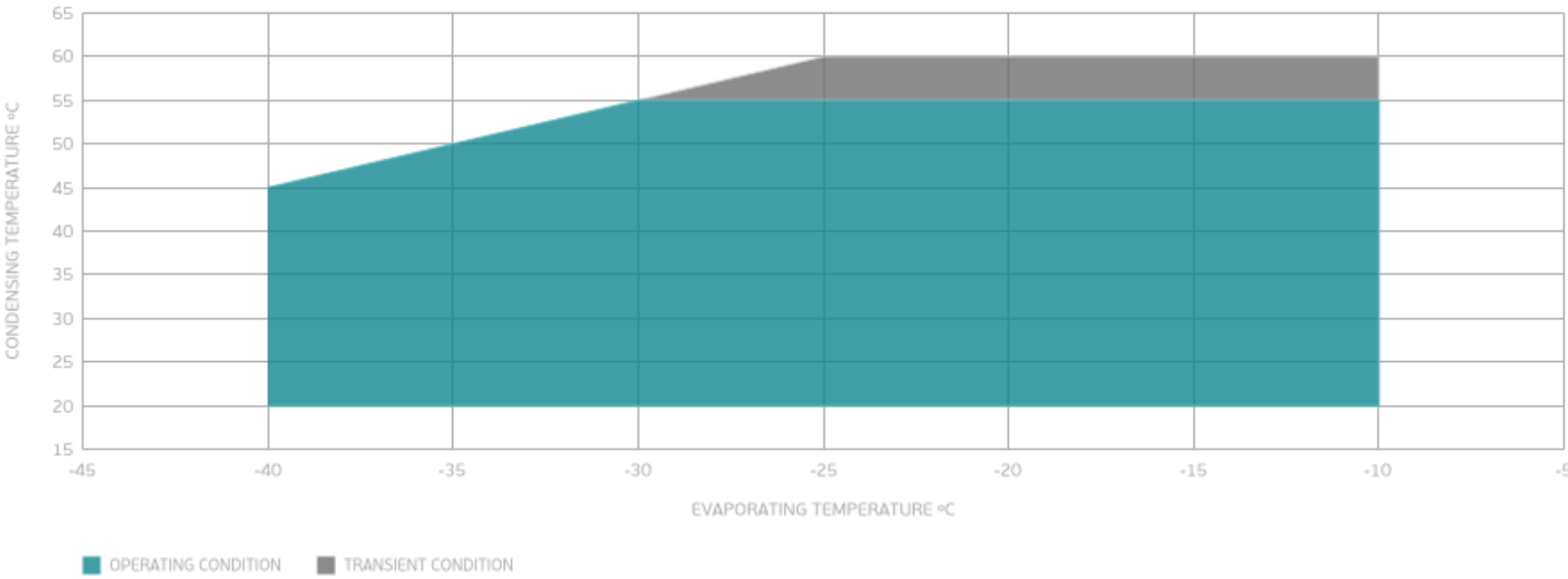
Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	255	0.73	348	-	7.35
-35	342	0.87	395	-	9.89
-30	451	1.00	450	-	13.12
-25	584	1.14	510	-	17.08
-20	740	1.29	574	-	21.81
-15	920	1.44	639	-	27.36
-10	1124	1.60	701	-	33.76
Test Condition: Subcooling 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
-30	350	0.77	452	-	11.94
-25	457	0.88	519	-	15.70
-20	583	0.98	593	-	20.22
-15	729	1.09	671	-	25.54
-10	895	1.19	749	-	31.71
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.					

ENVELOPE



EXTERNAL DIMENSIONS

