

NEK2168GK



ENGINEERING CODE
959HG71



REFRIGERANT
R-404A



POWER SUPPLY
115 V 60 Hz



APPLICATION
LBP



MOTOR TYPE
CSCR



STANDARD
ASHRAE



COOLING CAPACITY
747 W



EFFICIENCY
1.2 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/115
HP	3/4
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	2.68 Ω at 25°C
Run Winding Resistance	0.65 Ω at 25°C
Locked Rotor Amperage (LRA) 60Hz	46 A
Rated Load Amperage (LMBP) at 60 Hz	7.3 A

MECHANICAL DATA

Displacement	14.28 cm ³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.7 Kg

ELECTRICAL COMPONENTS

Start Capacitor	243-292 μf/250 V
CSR CSIR BOX	Yes
Overload Protection	T0920/G9

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-404A
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	747	1.2	625	-	17.28
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
-40	346	0.95	365	-	7.94
-35	467	1.11	421	-	10.75
-30	615	1.27	485	-	14.20
-25	791	1.43	554	-	18.34
-20	996	1.60	624	-	23.21
-15	1231	1.78	693	-	28.86
-10	1496	1.98	756	-	35.32
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

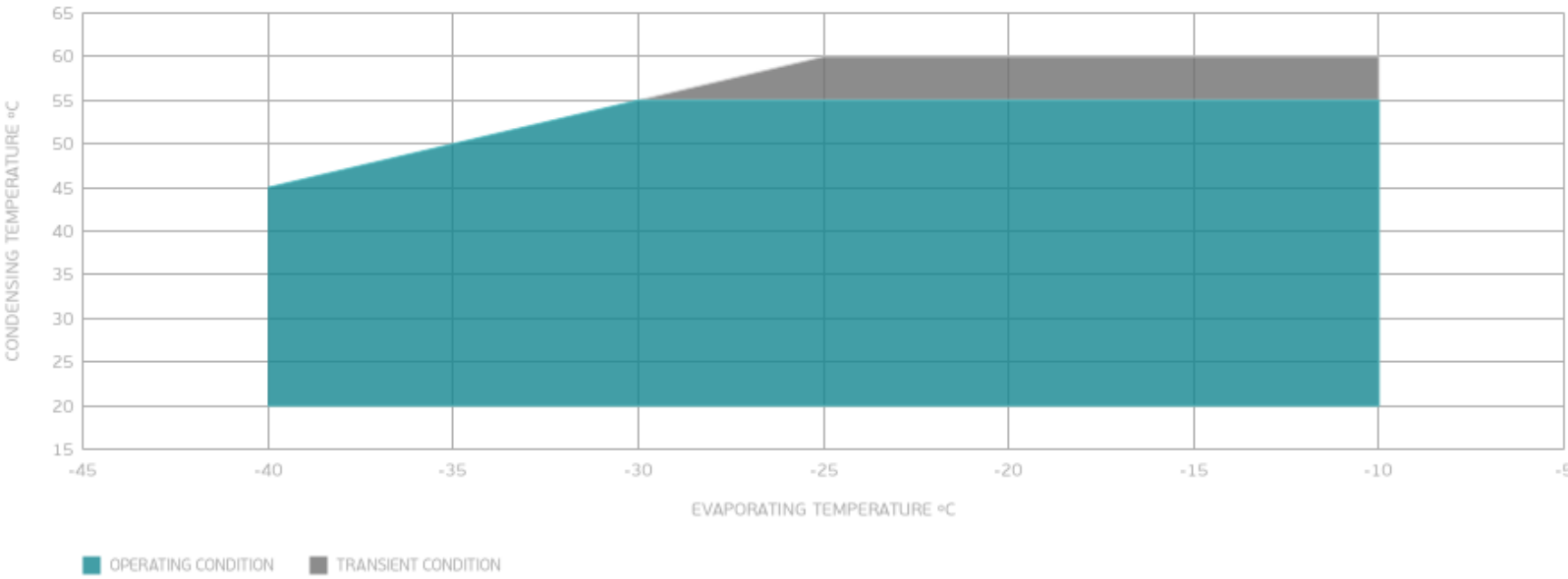
Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	308	0.82	376	-	7.04
-35	426	0.98	436	-	9.78
-30	571	1.13	507	-	13.15
-25	743	1.27	586	-	17.18
-20	943	1.41	670	-	21.92
-15	1172	1.55	755	-	27.42
-10	1431	1.71	839	-	33.71
Test Condition: 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
-30	512	1.01	505	-	11.77
-25	680	1.15	593	-	15.69
-20	875	1.27	688	-	20.30
-15	1098	1.39	788	-	25.63
-10	1350	1.52	889	-	31.75
Test Condition: Liquid 32.2 °C, Return Gas 32.2 °C. Data are an indication of performance based simulation.					

ENVELOPE



EXTERNAL DIMENSIONS

