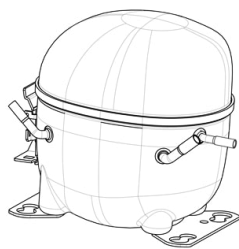


NEK2121GK



ENGINEERING CODE
957DA51



REFRIGERANT
R-404A



POWER SUPPLY
220-240 V 50 Hz



APPLICATION
LBP



MOTOR TYPE
CSIR



STANDARD
EN12900



COOLING CAPACITY
150 W



EFFICIENCY
0.97 W/W



DATA

GENERAL DATA

Model	NEK2121GK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Static/220
HP	1/3
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	27.4 Ω at 25°C
Run Winding Resistance	7.9 Ω at 25°C

MECHANICAL DATA

Displacement	5.44 cm ³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.4 Kg

ELECTRICAL COMPONENTS

Start Capacitor	43-53 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T0050/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-404A
Tested Application	LBP
Tested Standard	EN12900
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
40	-35	150	0.97	155	-	4.07
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	125	0.94	133	-	3.18
-35	167	1.10	152	-	4.27
-30	220	1.28	172	-	5.65
-25	284	1.48	192	-	7.31
-20	358	1.70	211	-	9.29
-15	444	1.95	228	-	11.60
-10	541	2.23	242	-	14.26
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.					

PERFORMANCE CURVE

Condensing Temperature 45°C

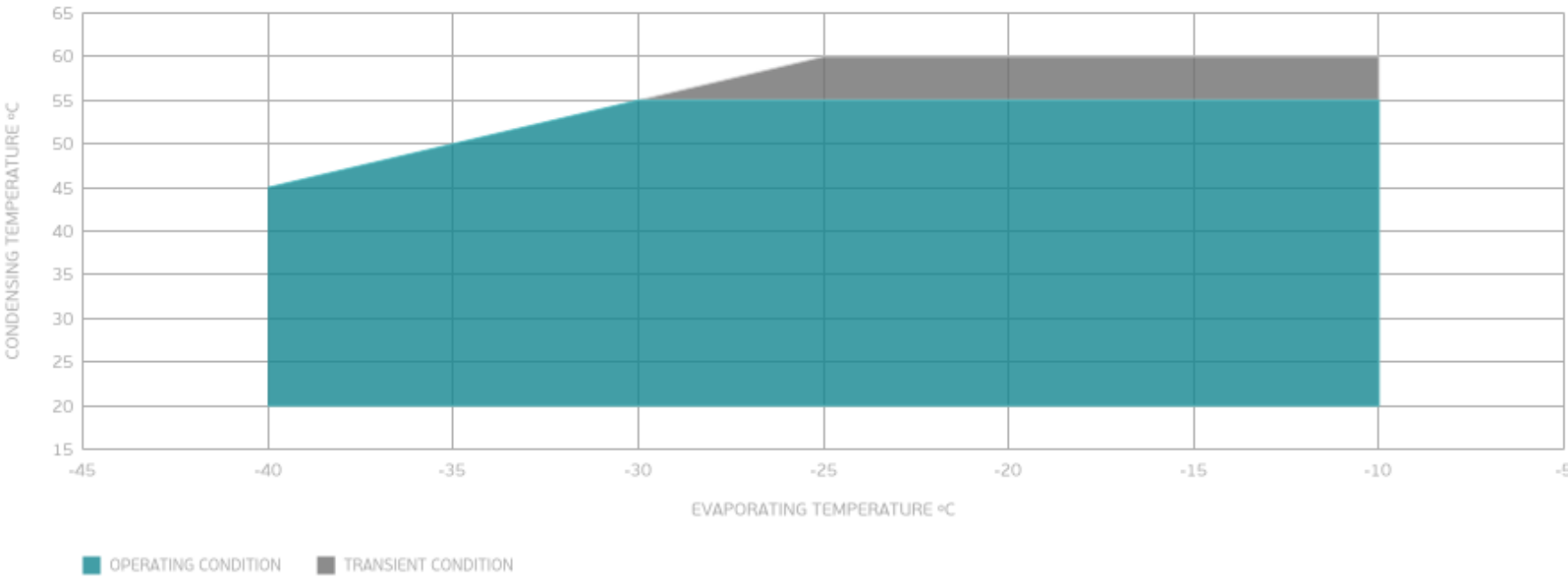
Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	99	0.74	135	-	2.87
-35	134	0.86	156	-	3.86
-30	177	0.99	179	-	5.15
-25	230	1.13	203	-	6.73
-20	293	1.29	228	-	8.64
-15	366	1.45	252	-	10.88
-10	449	1.64	274	-	13.49
Test Condition: Subcooling 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	136	0.75	180	-	4.63
-25	178	0.85	208	-	6.11
-20	228	0.96	237	-	7.91
-15	287	1.08	267	-	10.07
-10	356	1.20	296	-	12.60
Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.					

ENVELOPE



EXTERNAL DIMENSIONS

