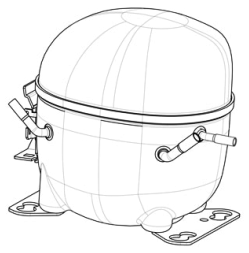
COMPRESSOR TECHNICAL DATA

NEK2150GK



ENGINEERING CODE
959AA54

REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
611 W

EFFICIENCY
1.21 W/W

DATA

GENERAL DATA

Model	NEK2150GK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/2+
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	27.95 Ω at 25°C
Run Winding Resistance	5.11 Ω at 25°C

MECHANICAL DATA

Displacement	12.11 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11 Kg

ELECTRICAL COMPONENTS

Start Capacitor	72-88 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	T0634/G6

EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

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	ASHRAE
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
54.4	-23.3	611	1.21	504	3.29	14.14

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	306	1.01	304	2.73	7.01
-35	396	1.15	345	2.85	9.11
-30	509	1.30	391	2.97	11.76
-25	647	1.48	438	3.10	14.99
-20	810	1.67	485	3.25	18.87
-15	1000	1.89	530	3.40	23.45
-10	1219	2.13	571	3.57	28.78

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-40	284	0.90	315	2.77	6.51
-35	369	1.03	359	2.88	8.47
-30	476	1.16	411	3.01	10.96
-25	607	1.30	467	3.17	14.05
-20	764	1.45	527	3.34	17.78
-15	949	1.61	588	3.55	22.20
-10	1162	1.80	647	3.78	27.37

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

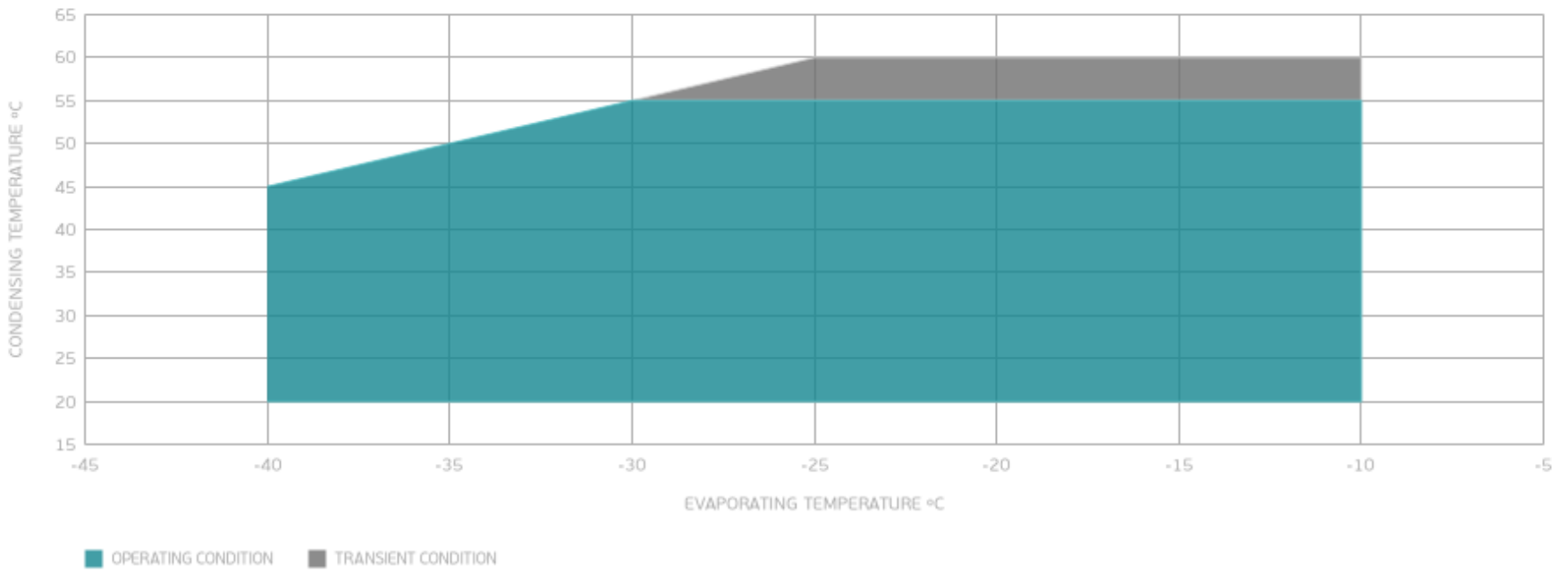
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	436	1.04	418	3.06	10.02
-25	560	1.16	482	3.23	12.93
-20	710	1.29	551	3.44	16.47
-15	887	1.42	625	3.69	20.71
-10	1093	1.56	701	3.98	25.69

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS