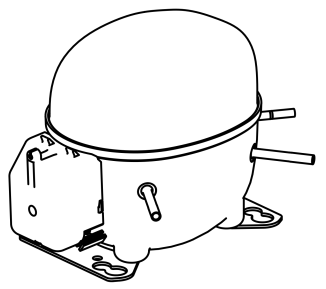
COMPRESSOR TECHNICAL DATA

NEK2168GK



ENGINEERING CODE
959FA51

REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
384 W

EFFICIENCY
0.96 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	13.2 Ω at 25°C
Run Winding Resistance	4.0 Ω at 25°C

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	No
Starting Device Type	RELAY
Starting Device Description	9660A-XX-145*
Overload Protection	T0624/G9

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-404A
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
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	384	0.96	399	-	10.41

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	319	0.95	338	-	8.11
-35	425	1.09	388	-	10.85
-30	554	1.24	447	-	14.19
-25	705	1.38	511	-	18.16
-20	879	1.52	580	-	22.78
-15	1074	1.65	650	-	28.06
-10	1291	1.79	721	-	34.02

Test Condition: Subcooling 0 K, Return Gas 20 °C. Data are an indication of performance based simulation.

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	256	0.73	351	-	7.37
-35	344	0.85	406	-	9.95
-30	452	0.96	471	-	13.15
-25	581	1.06	545	-	16.99
-20	729	1.16	626	-	21.48
-15	896	1.26	712	-	26.65
-10	1082	1.35	801	-	32.52

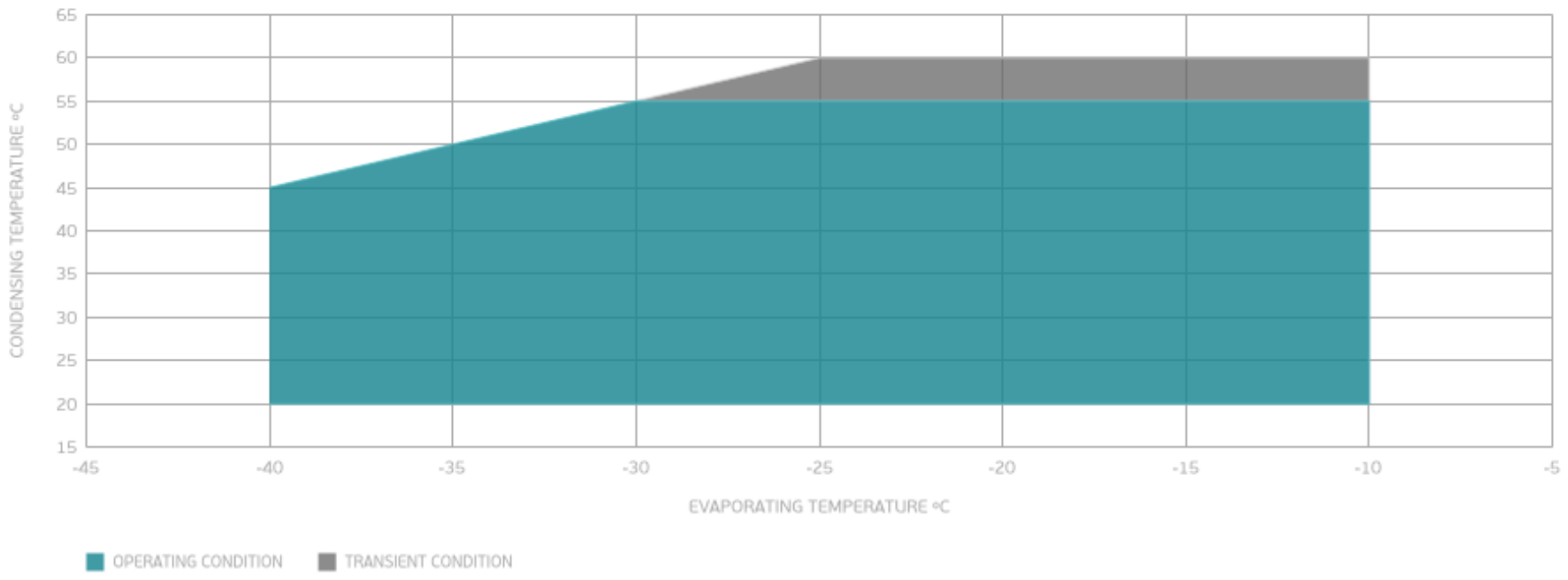
Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

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	352	0.74	474	-	12.00
-25	455	0.82	556	-	15.66
-20	576	0.89	647	-	19.99
-15	714	0.96	746	-	25.00
-10	867	1.02	851	-	30.73

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data are an indication of performance based simulation.

ENVELOPE



External

EXTERNAL CHARACTERISTICS

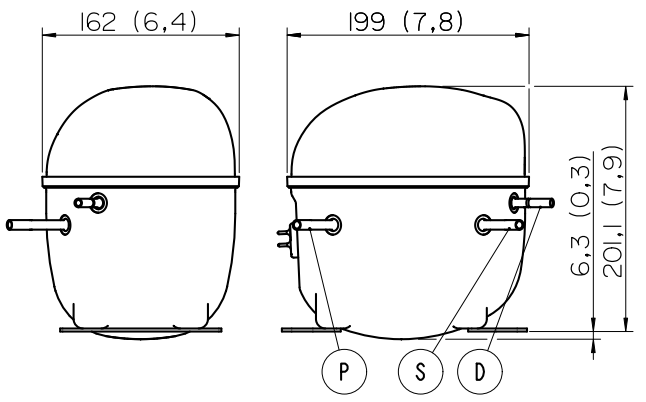
Base Plate	SMALL
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER

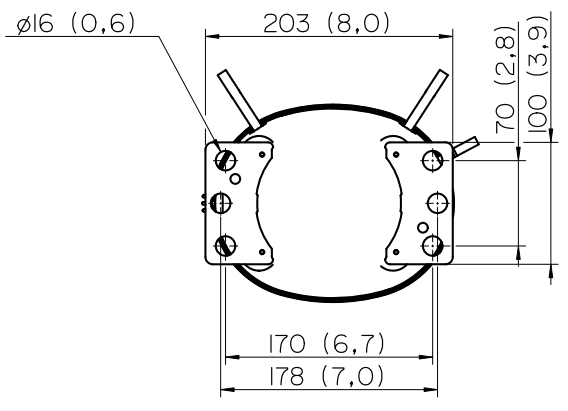
Process	6.1 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



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