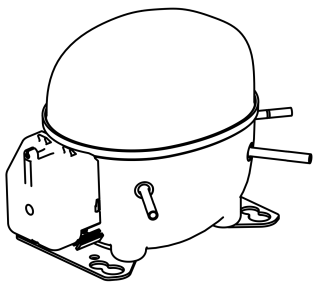
COMPRESSOR TECHNICAL DATA

NEK6210GK



ENGINEERING CODE
958CA51

REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSIR

STANDARD
ASHRAE

COOLING CAPACITY
775 W

EFFICIENCY
1.59 W/W

DATA

GENERAL DATA

Model	NEK6210GK
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/2
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	28.84 Ω at 25°C
Run Winding Resistance	6.67 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	15.8 A

MECHANICAL DATA

Displacement	8.77 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-0029*
Overload Protection	DRB34K52AYF T0660/G5

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-404A
Tested Application	MBP
Tested Standard	ASHRAE
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
54.4	-6.7	775	1.59	487	2.92	21.15

Test Condition: Subcooling 8.3 K, Return Gas 35 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
-20	636	1.96	325	2.26	13.81
-15	770	2.16	357	2.38	16.83
-10	936	2.40	390	2.50	20.58
-5	1138	2.70	422	2.61	25.19
0	1379	3.08	448	2.72	30.80
5	1664	3.59	464	2.82	37.54
10	1994	4.28	466	2.92	45.57

Test Condition: Subcooling 8.3 K, Return Gas 35 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
-20	554	1.55	357	2.31	13.27
-15	672	1.71	392	2.48	16.22
-10	816	1.88	434	2.64	19.82
-5	988	2.07	477	2.80	24.20
0	1193	2.30	519	2.95	29.51
5	1434	2.58	555	3.09	35.87
10	1714	2.95	581	3.23	43.44

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

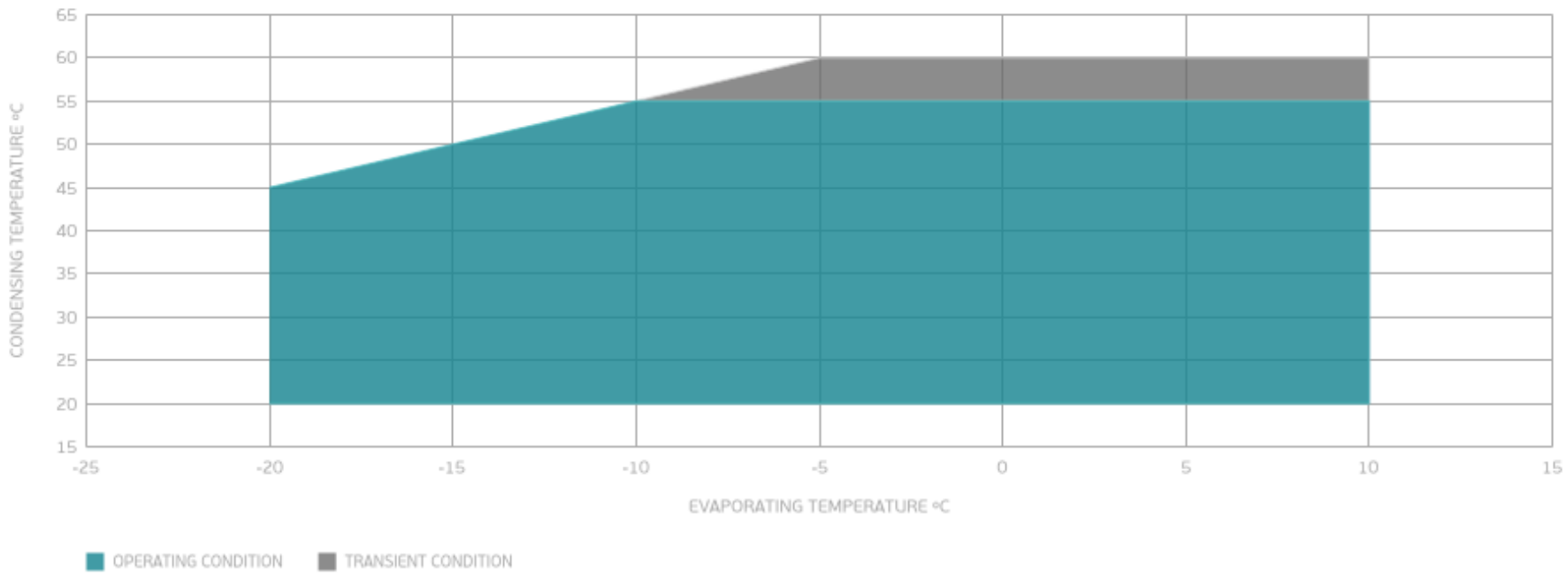
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	671	1.48	454	2.79	18.34
-5	817	1.62	505	3.00	22.54
0	988	1.77	559	3.20	27.58
5	1189	1.94	611	3.40	33.61
10	1422	2.16	657	3.59	40.75

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



External

EXTERNAL CHARACTERISTICS

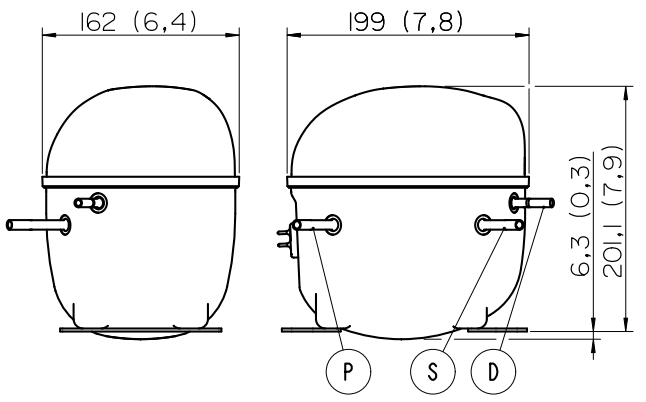
Base Plate	SMALL
Tray Holder	NO

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

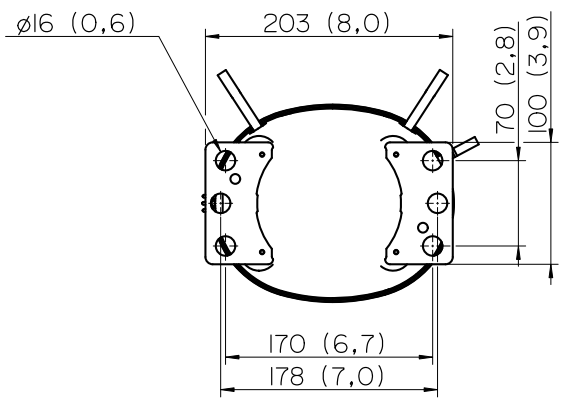
Process	6.1 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE