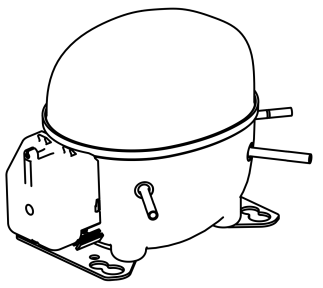
COMPRESSOR TECHNICAL DATA

NEK6160Y



ENGINEERING CODE
861IA58

REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
HBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
594 W

EFFICIENCY
2.34 W/W

DATA

GENERAL DATA

Model	NEK6160Y
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	HBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1/4-
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	28.9 Ω at 25°C
Run Winding Resistance	6.8 Ω at 25°C

MECHANICAL DATA

Displacement	12.11 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.1 Kg

ELECTRICAL COMPONENTS

Start Capacitor	43-53 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRP-0029* MTRPH-0026-59*
Overload Protection	T0186/G6

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-600a
Tested Application	HBP
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
50	5	594	2.34	253	-	8.1

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

PERFORMANCE CURVE

Condensing Temperature 35ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-15	298	1.83	163	-	3.50
-10	379	2.14	177	-	4.47
-5	474	2.47	192	-	5.60
0	583	2.85	205	-	6.91
5	707	3.32	213	-	8.42
10	847	3.96	214	-	10.12

Test Condition: Subcooling 0 K, Return Gas 20 ºC. 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
-15	262	1.50	175	-	3.36
-10	335	1.76	190	-	4.30
-5	420	2.02	209	-	5.42
0	519	2.28	227	-	6.72
5	632	2.59	244	-	8.21
10	759	2.96	256	-	9.91

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

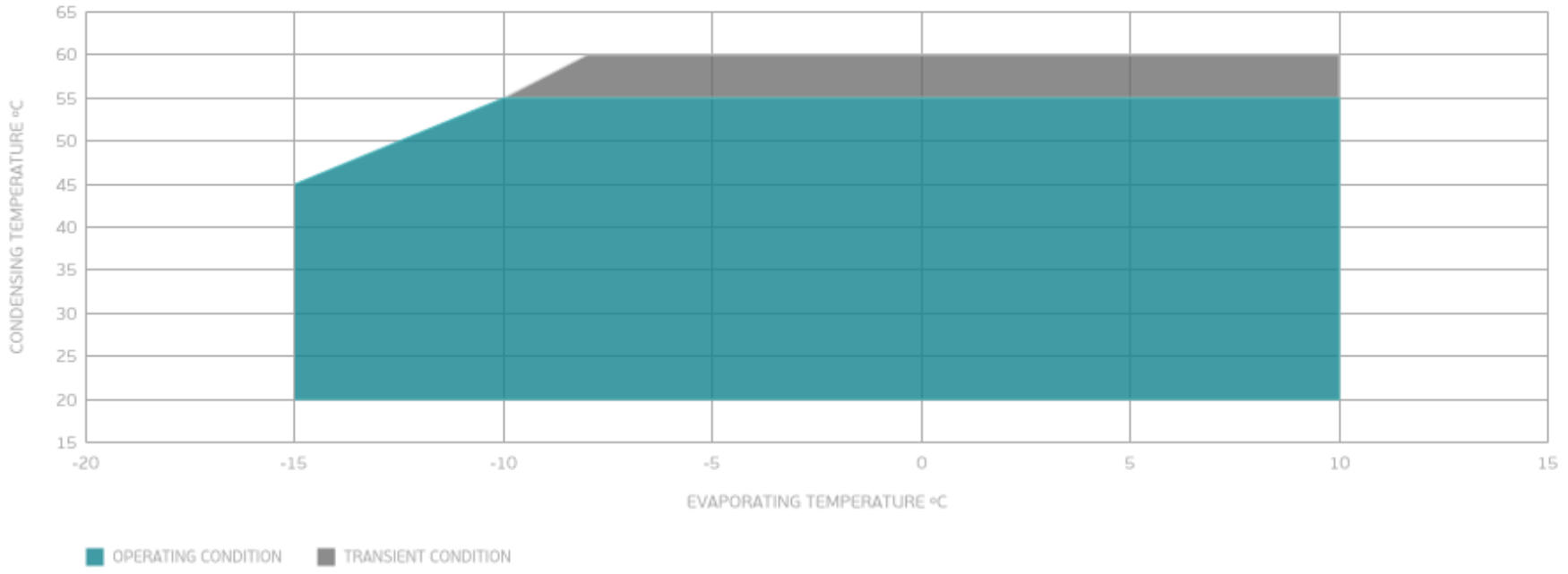
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	291	1.49	196	-	4.13
-5	367	1.71	215	-	5.22
0	455	1.92	237	-	6.50
5	556	2.15	259	-	7.97
10	669	2.40	279	-	9.66

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

ENVELOPE



External

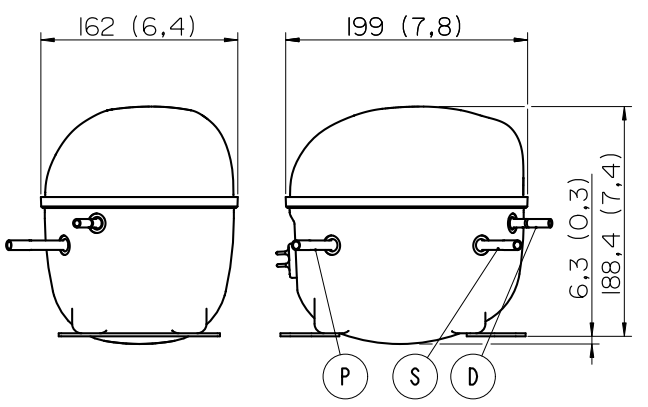
EXTERNAL CHARACTERISTICS

Base Plate	SMALL
Tray Holder	YES

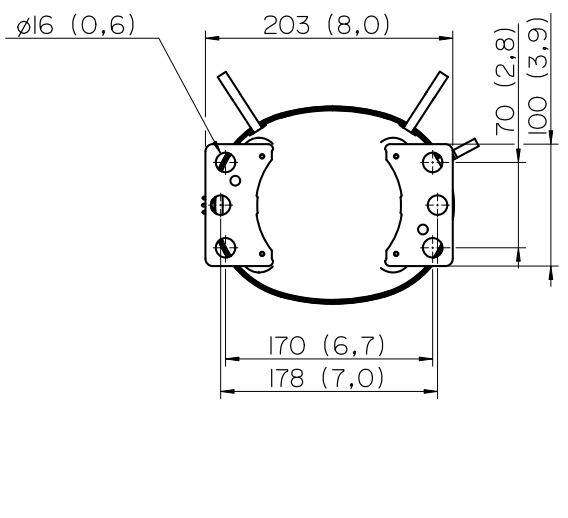
Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER
Process	6.1 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



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