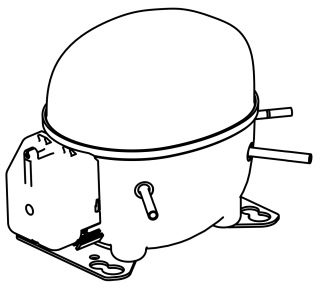
COMPRESSOR TECHNICAL DATA

NEK2134U



ENGINEERING CODE
862AA51

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSIR

STANDARD
EN12900

COOLING CAPACITY
269 W

EFFICIENCY
1.22 W/W

DATA

GENERAL DATA

Model	NEK2134U
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	24.26 Ω at 25°C
Run Winding Resistance	7.79 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	14 A

MECHANICAL DATA

Displacement	9.99 cm^3
Oil Charge	350 ml
Oil Type	AB
Oil Viscosity	ISO32
Weight	10.6 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Starting Device Description	MTRPH0027-59*
Overload Protection	T0168/G6

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
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	269	1.22	220	-	3.08

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	232	1.28	181	-	2.54
-35	287	1.34	214	-	3.16
-30	359	1.44	250	-	3.95
-25	448	1.57	285	-	4.94
-20	557	1.77	315	-	6.17
-15	689	2.04	337	-	7.67
-10	845	2.44	346	-	9.47

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	203	1.04	195	-	2.43
-35	250	1.10	227	-	3.00
-30	310	1.17	264	-	3.75
-25	387	1.27	304	-	4.69
-20	482	1.41	341	-	5.87
-15	597	1.61	372	-	7.31
-10	735	1.87	393	-	9.05

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

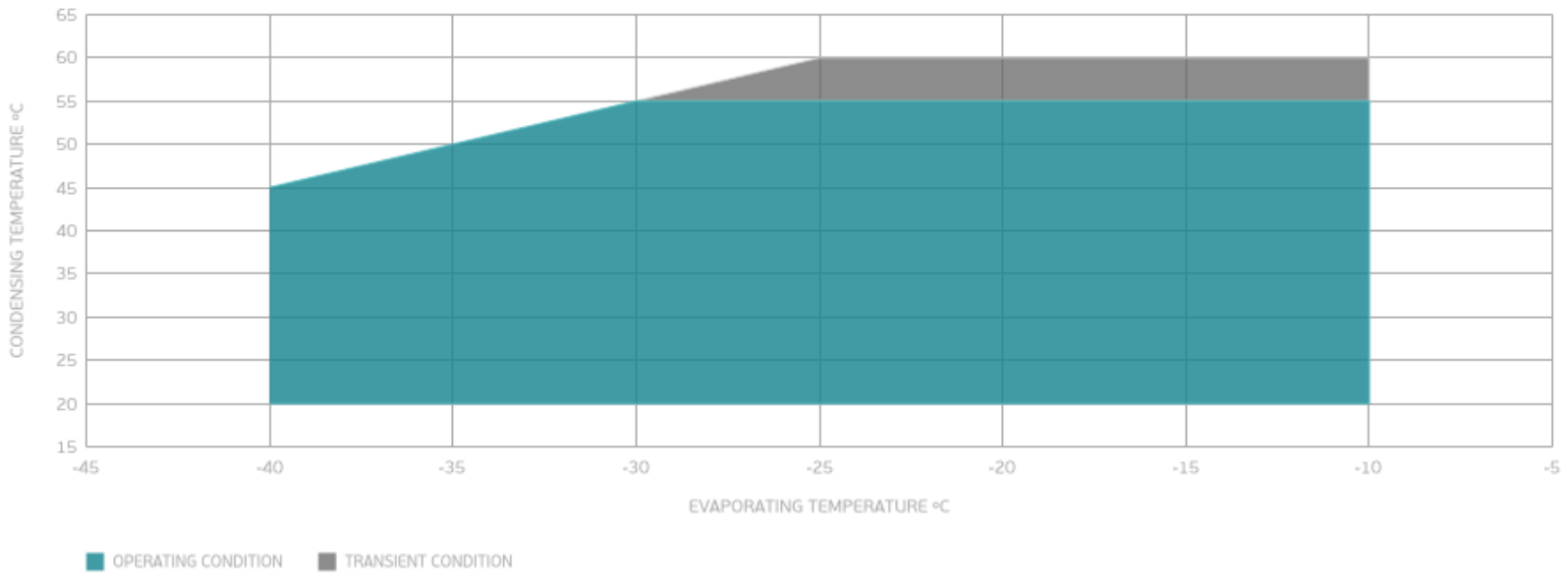
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	261	0.94	277	-	3.50
-25	325	1.02	317	-	4.39
-20	405	1.13	359	-	5.50
-15	504	1.27	396	-	6.88
-10	624	1.46	426	-	8.56

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

ENVELOPE



External

EXTERNAL CHARACTERISTICS

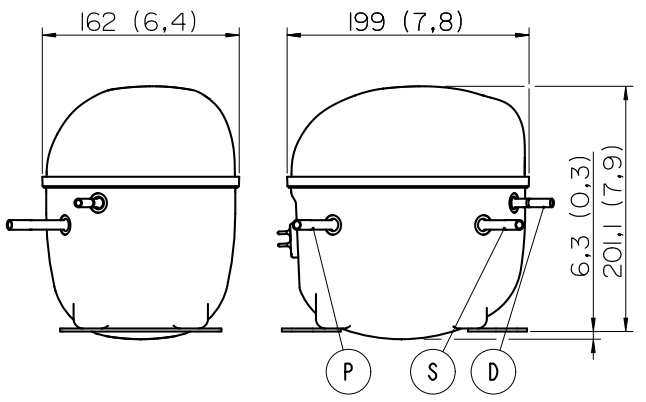
Base Plate	SMALL
Tray Holder	NO

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

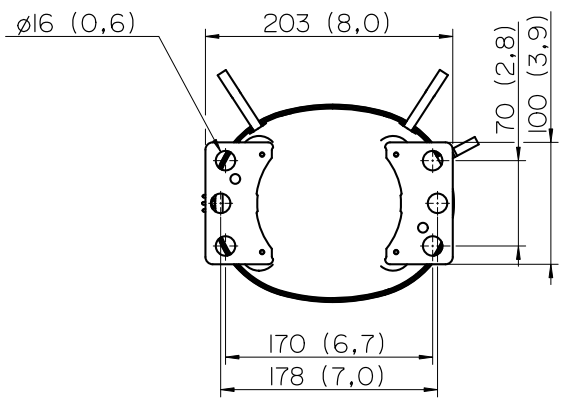
Process	6.1 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE