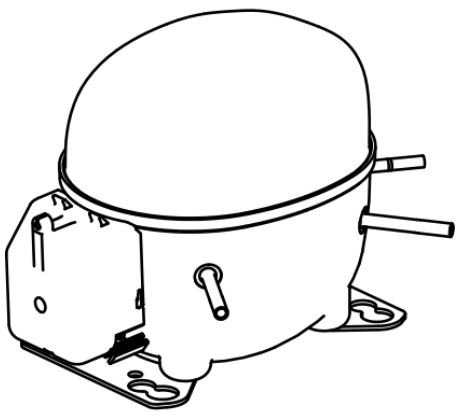
COMPRESSOR TECHNICAL DATA

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

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

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	LBP
Tested Standard	EN12900
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
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 45°C

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 °C. Data are an indication of performance based simulation.

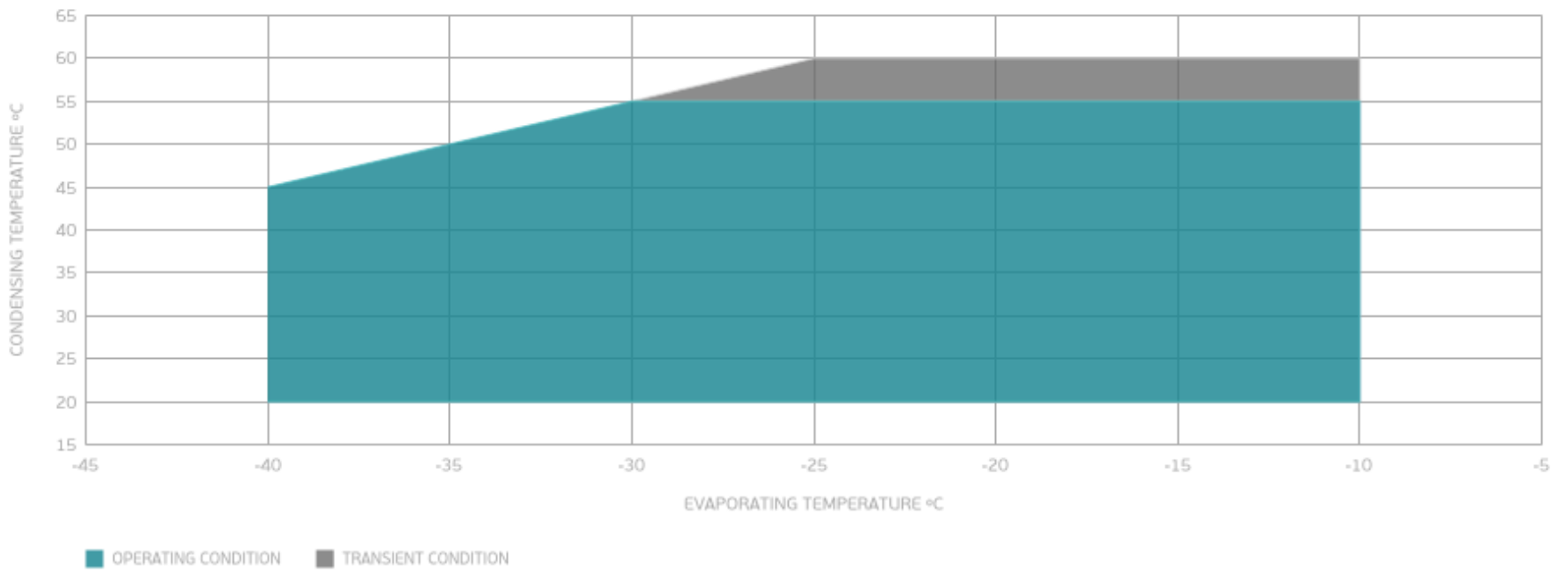
PERFORMANCE CURVE

Condensing Temperature 55°C

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 °C. Data are an indication of performance based simulation.

ENVELOPE



EXTERNAL DIMENSIONS

