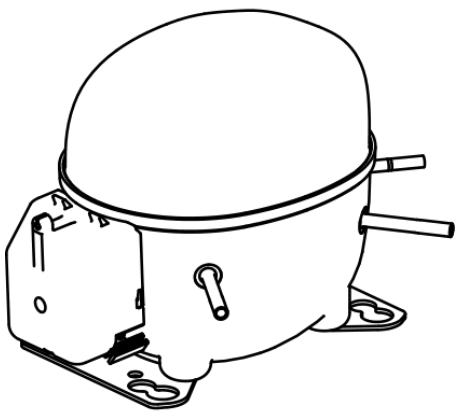
COMPRESSOR TECHNICAL DATA

NEK2160U



ENGINEERING CODE
863FA51

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
EN12900

COOLING CAPACITY
420 W

EFFICIENCY
1.18 W/W

DATA

GENERAL DATA

Model	NEK2160U
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	11.7 Ω at 25°C
Run Winding Resistance	3.96 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	18 A

MECHANICAL DATA

Displacement	16.8 cm^3
Oil Charge	350 ml
Oil Type	AB
Oil Viscosity	ISO32
Weight	11.9 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
Run Capacitor	10.0 µf/440 V
CSR CSIR BOX	Yes
Starting Device Description	RVA2L3C
Overload Protection	T0660/G9

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	420	1.18	355	-	4.82

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	349	1.13	308	-	3.82
-35	453	1.30	347	-	4.97
-30	582	1.49	390	-	6.40
-25	737	1.70	434	-	8.14
-20	919	1.92	477	-	10.18
-15	1128	2.18	518	-	12.56
-10	1365	2.46	554	-	15.29

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	298	0.93	321	-	3.58
-35	387	1.07	362	-	4.66
-30	499	1.22	410	-	6.02
-25	633	1.37	463	-	7.68
-20	792	1.53	518	-	9.64
-15	976	1.70	574	-	11.94
-10	1185	1.89	628	-	14.58

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

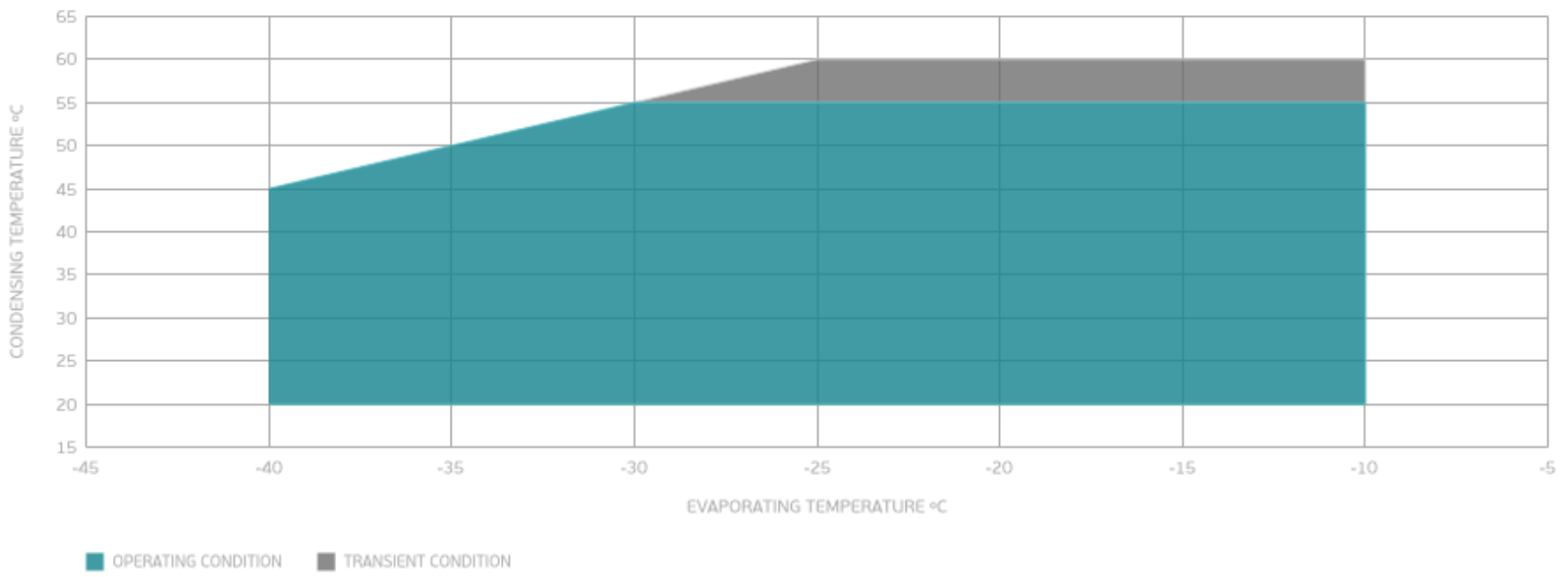
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	413	0.98	420	-	5.56
-25	528	1.10	479	-	7.13
-20	664	1.22	543	-	9.01
-15	821	1.34	611	-	11.21
-10	1002	1.47	680	-	13.76

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

ENVELOPE



EXTERNAL DIMENSIONS

