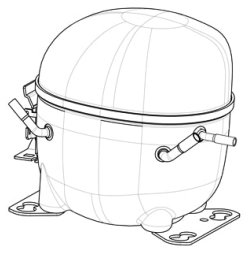
COMPRESSOR TECHNICAL DATA

NEK2160U



ENGINEERING CODE
863FA51

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
ASHRAE

COOLING CAPACITY
731 W

EFFICIENCY
1.47 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	ESTER
Oil Viscosity	ISO22
Weight	11.9 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
CSR CSIR BOX	Yes
Overload Protection	T0660/G9

EXTERNAL CHARACTERISTICS

Base Plate	SMALL

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	ASHRAE
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
54.4	-23.3	731	1.47	498	2.53	7.42

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 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
-40	362	1.18	308	1.70	3.65
-35	470	1.36	346	1.87	4.75
-30	605	1.56	389	2.05	6.12
-25	767	1.77	433	2.24	7.78
-20	957	2.00	478	2.43	9.74
-15	1174	2.26	520	2.63	12.00
-10	1419	2.55	556	2.83	14.57

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 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
-40	341	1.06	321	1.75	3.43
-35	441	1.22	362	1.94	4.45
-30	569	1.39	409	2.14	5.76
-25	724	1.57	462	2.36	7.34
-20	906	1.75	518	2.59	9.22
-15	1115	1.94	574	2.84	11.39
-10	1352	2.15	629	3.10	13.88

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

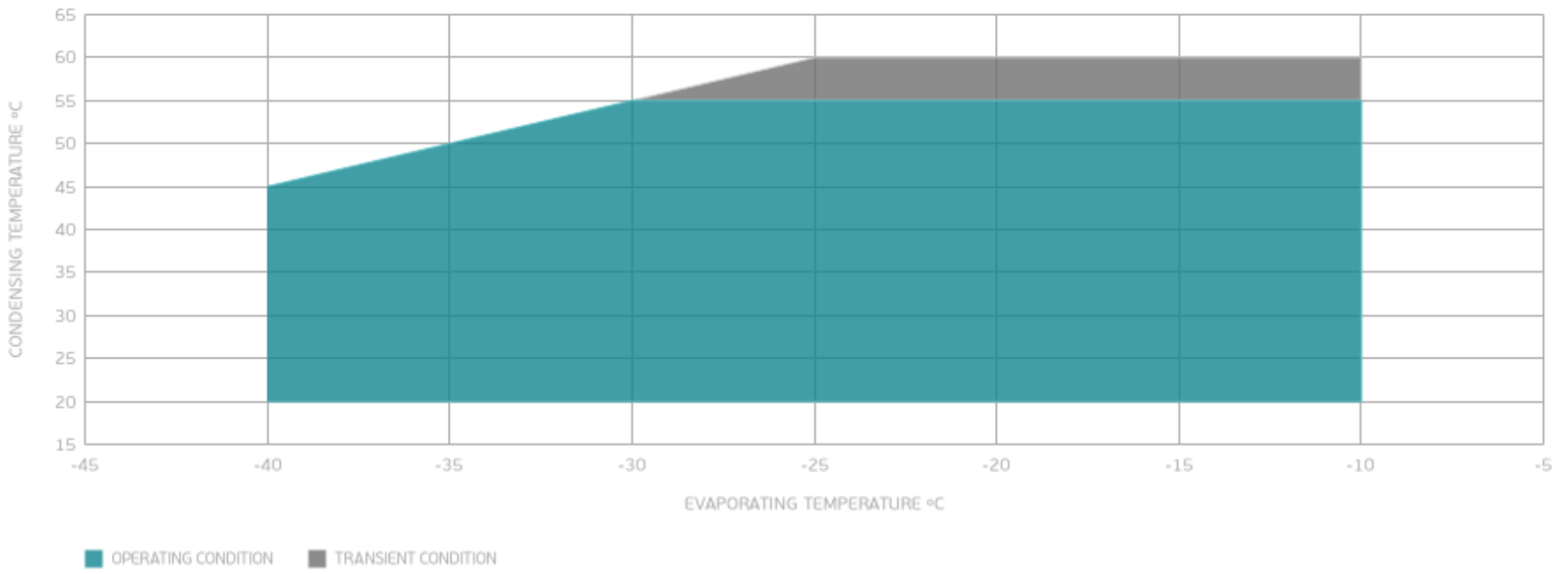
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	526	1.25	419	2.20	5.32
-25	672	1.41	478	2.45	6.81
-20	845	1.56	542	2.72	8.60
-15	1045	1.71	610	3.02	10.68
-10	1274	1.87	680	3.34	13.07

Test Condition: Liquid 32.2 ºC, Return Gas 32.2 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS