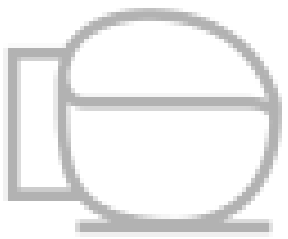
COMPRESSOR TECHNICAL DATA

NEX2180UB



ENGINEERING CODE
865FA76

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
ASHRAE

COOLING CAPACITY
921 W

EFFICIENCY
1.6 W/W

DATA

GENERAL DATA

Model	NEX2180UB
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	LBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	1
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	7.8 Ω at 25°C
Run Winding Resistance	5.2 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	22.5 A

MECHANICAL DATA

Displacement	18.7 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.2 Kg

ELECTRICAL COMPONENTS

Start Capacitor	108-130 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	USP-M12-83

EXTERNAL CHARACTERISTICS

Base Plate	UNI

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.45 mm	STRAIGHT	COPPER
Process	6.45 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	921	1.6	577	2.77	9.35

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	466	1.35	346	1.76	4.70
-35	600	1.53	391	1.96	6.05
-30	763	1.74	439	2.16	7.72
-25	958	1.97	486	2.36	9.72
-20	1184	2.23	532	2.55	12.05
-15	1443	2.51	575	2.75	14.75
-10	1737	2.83	614	2.95	17.82

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	433	1.21	359	1.80	4.36
-35	564	1.37	413	2.04	5.69
-30	723	1.54	470	2.28	7.31
-25	911	1.72	529	2.53	9.24
-20	1130	1.92	588	2.79	11.50
-15	1380	2.13	647	3.05	14.10
-10	1663	2.37	703	3.31	17.06

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

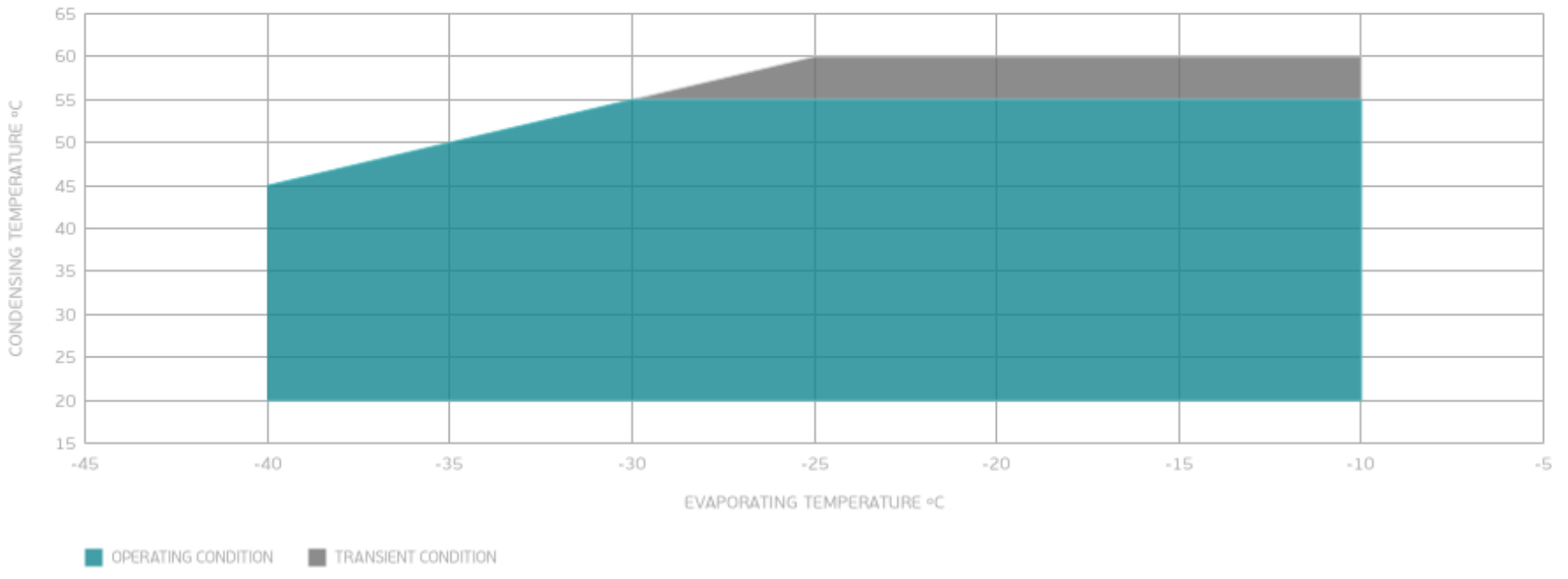
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	665	1.38	483	2.37	6.72
-25	848	1.53	554	2.68	8.60
-20	1059	1.69	626	2.99	10.78
-15	1301	1.86	700	3.32	13.29
-10	1573	2.04	773	3.66	16.14

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


65
60
55
50
45
40
35
30
25
20
15
CONDENSING TEMPERATURE °C
-45
-40
-35
-30
-25
-20
-15
-10
-5
EVAPORATING TEMPERATURE °C
OPERATING CONDITION
TRANSIENT CONDITION