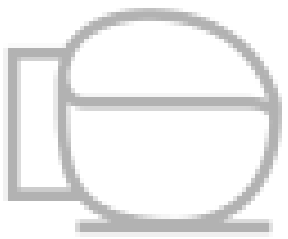
COMPRESSOR TECHNICAL DATA

NEU2170UA



ENGINEERING CODE
865EA76

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
ASHRAE

COOLING CAPACITY
815 W

EFFICIENCY
1.57 W/W

DATA

GENERAL DATA

Model	NEU2170UA
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	12.02 Ω at 25°C
Run Winding Resistance	5.15 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	23.5 A

MECHANICAL DATA

Displacement	16.8 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11 Kg

ELECTRICAL COMPONENTS

Start Capacitor	108-130 µf/330 V
CSR CSIR BOX	No
Starting Device Type	RELAY
Overload Protection	USP-M1E-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	815	1.57	520	2.63	8.27

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	407	1.28	319	1.86	4.10
-35	526	1.46	360	2.00	5.31
-30	673	1.68	401	2.15	6.81
-25	849	1.92	442	2.30	8.62
-20	1055	2.20	481	2.46	10.74
-15	1292	2.50	516	2.62	13.21
-10	1561	2.85	547	2.79	16.02

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	376	1.14	330	1.87	3.79
-35	494	1.31	378	2.05	4.99
-30	638	1.49	428	2.24	6.46
-25	809	1.69	480	2.44	8.20
-20	1007	1.90	531	2.64	10.25
-15	1234	2.13	580	2.85	12.61
-10	1491	2.39	625	3.07	15.30

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

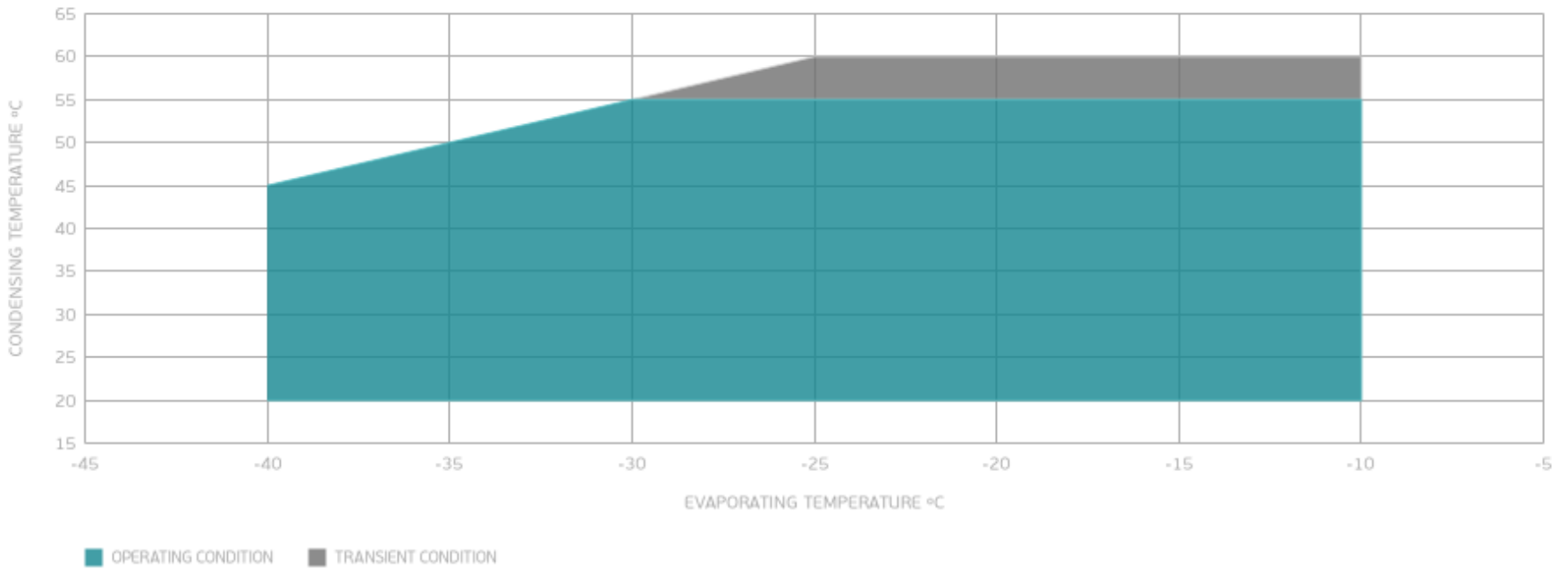
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	582	1.33	438	2.31	5.88
-25	748	1.50	500	2.56	7.59
-20	940	1.67	563	2.81	9.56
-15	1158	1.85	625	3.07	11.83
-10	1404	2.05	685	3.34	14.41

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