

NEU2178U



ENGINEERING CODE
8630A44

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
ASHRAE

COOLING CAPACITY
897 W

EFFICIENCY
1.52 W/W



DATA

GENERAL DATA

Model	NEU2178U
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	10.43 Ω at 25°C
Run Winding Resistance	4.97 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	21 A

MECHANICAL DATA

Displacement	18.7 cm ³
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	11.6 Kg

ELECTRICAL COMPONENTS

Start Capacitor	108-130 µf/330 V
CSR CSIR BOX	Yes
Overload Protection	USP-Y01-83

EXTERNAL CHARACTERISTICS

Base Plate	UNI
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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	897	1.52	590	2.79	9.11

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

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	448	1.31	343	1.70	4.51
-35	577	1.48	390	1.92	5.82
-30	736	1.67	441	2.15	7.44
-25	925	1.87	494	2.38	9.38
-20	1145	2.09	547	2.61	11.65
-15	1397	2.34	596	2.84	14.27
-10	1681	2.62	640	3.08	17.25

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

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	423	1.16	365	1.81	4.26
-35	546	1.31	415	2.04	5.51
-30	698	1.47	473	2.28	7.06
-25	880	1.64	536	2.54	8.92
-20	1093	1.81	602	2.82	11.13
-15	1338	2.00	669	3.11	13.67
-10	1616	2.20	733	3.42	16.58

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

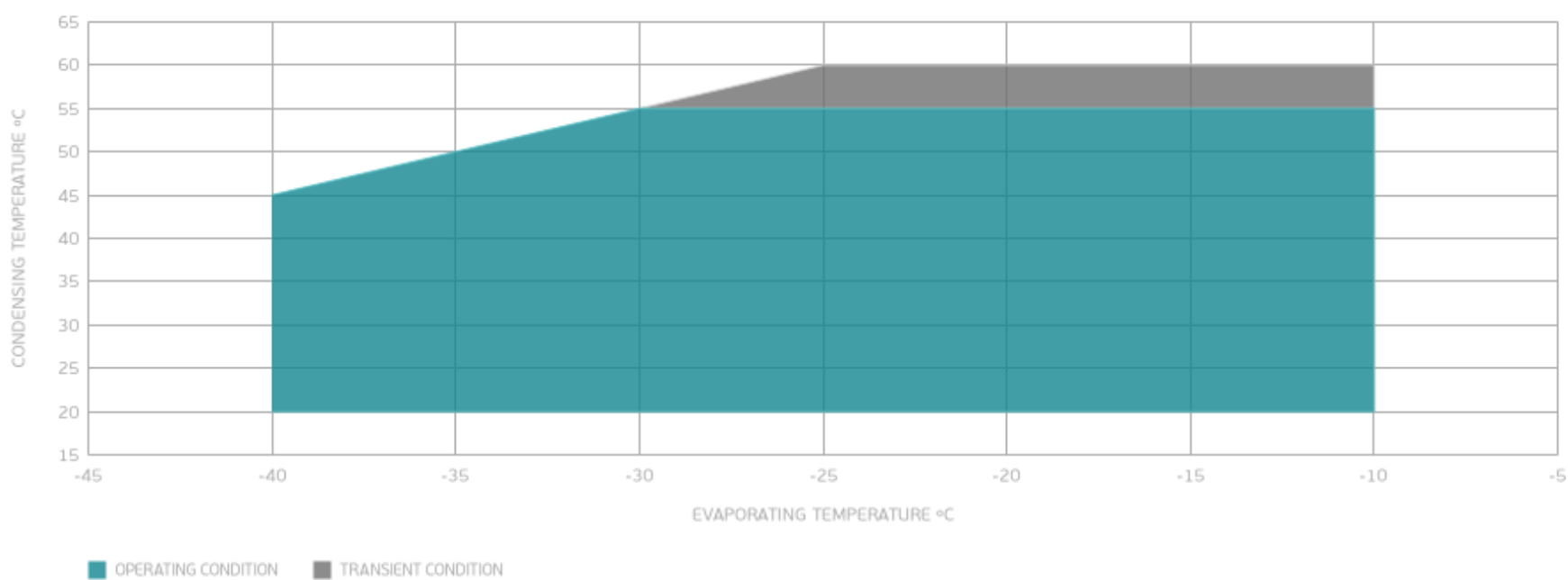
PERFORMANCE CURVE

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	653	1.32	495	2.39	6.61
-25	827	1.46	566	2.70	8.39
-20	1033	1.61	643	3.03	10.51
-15	1270	1.76	723	3.39	12.97
-10	1539	1.91	805	3.78	15.80

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

ENVELOPE



EXTERNAL DIMENSIONS

