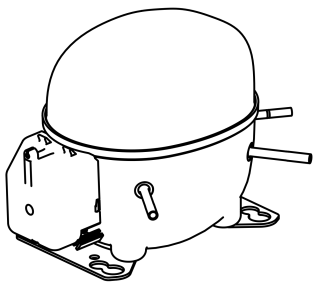
COMPRESSOR TECHNICAL DATA

NEU2178U



ENGINEERING CODE
8630A48

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
LBP

MOTOR TYPE
CSCR

STANDARD
EN12900

COOLING CAPACITY
497 W

EFFICIENCY
1.23 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	10.42 Ω at 25°C
Run Winding Resistance	5.23 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
Run Capacitor	12.5 µf/400 V
CSR CSIR BOX	Yes
Starting Device Description	RVA6M3C-114
Overload Protection	USP-Y01-83 (internal)

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	LBP
Tested Standard	EN12900
Tested Cooling	Fan
Tested Voltage	220 V
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	497	1.23	403	1.99	5.71

Test Condition: Subcooling 0 K, Return Gas 20 °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	411	1.20	341	1.73	4.50
-35	532	1.37	389	1.94	5.84
-30	683	1.55	441	2.16	7.51
-25	862	1.74	494	2.38	9.52
-20	1071	1.96	547	2.60	11.87
-15	1309	2.19	597	2.83	14.58
-10	1577	2.46	640	3.07	17.66

Test Condition: Subcooling 0 K, Return Gas 20 °C. 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	357	0.98	364	1.80	4.29
-35	462	1.11	415	2.04	5.56
-30	592	1.25	474	2.29	7.15
-25	749	1.39	537	2.55	9.08
-20	932	1.55	603	2.83	11.35
-15	1142	1.71	669	3.13	13.97
-10	1379	1.88	732	3.45	16.97

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

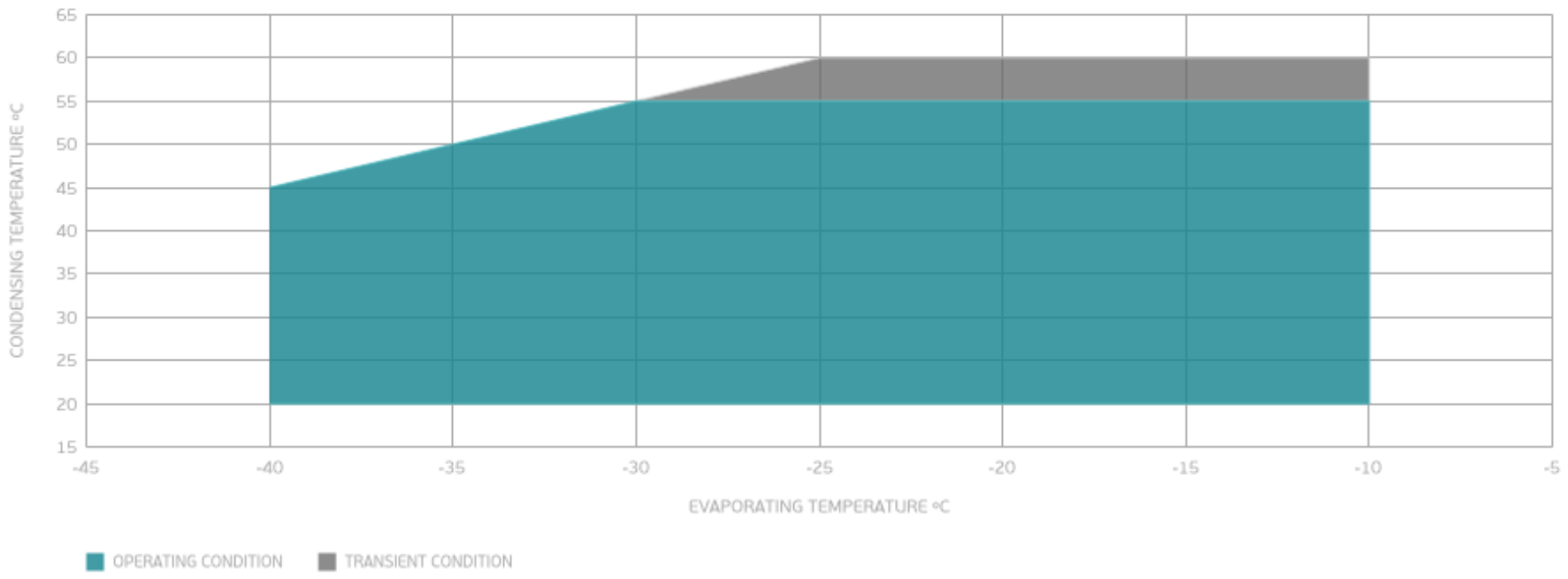
PERFORMANCE CURVE

Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-30	500	1.01	496	2.39	6.72
-25	634	1.12	567	2.70	8.56
-20	791	1.23	643	3.03	10.73
-15	972	1.34	723	3.40	13.26
-10	1177	1.47	803	3.80	16.16

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



External

EXTERNAL CHARACTERISTICS

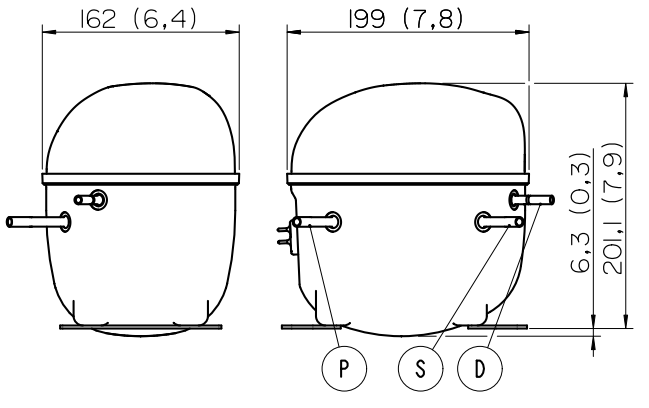
Base Plate	UNI
Tray Holder	YES

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.45 mm	STRAIGHT	COPPER

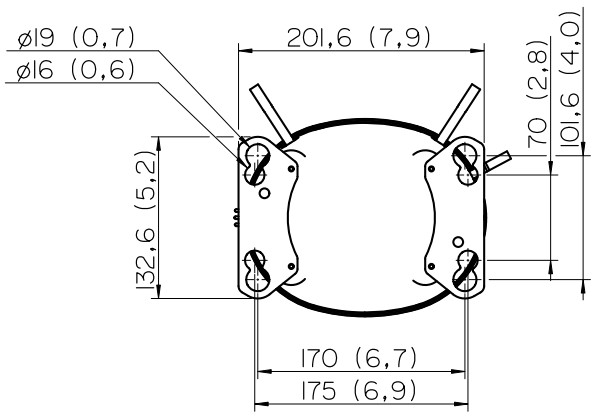
Process	6.45 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE