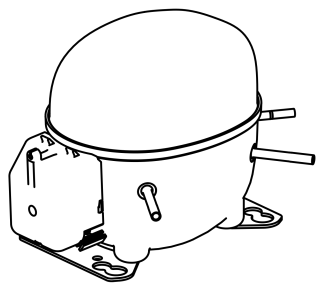
COMPRESSOR TECHNICAL DATA

NEU6214U



ENGINEERING CODE
862GA51

REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

APPLICATION
MBP

MOTOR TYPE
CSCR

STANDARD
ASHRAE

COOLING CAPACITY
1021 W

EFFICIENCY
2.06 W/W

DATA

GENERAL DATA

Model	NEU6214U
Type	Hermetic Reciprocating
Technology	ON/OFF
Compressor Application	MBP
Expansion Device	Capillary Tube or Expansion Valve
Compressor Cooling	Fan/220
HP	3/4
Starting Torque	HST
Plant	SLOVAKIA

ELECTRICAL DATA

Start Winding Resistance	18.83 Ω at 25°C
Run Winding Resistance	5.14 Ω at 25°C
Locked Rotor Amperage (LRA) 50Hz	19.5 A

MECHANICAL DATA

Displacement	12.11 cm^3
Oil Charge	350 ml
Oil Type	ESTER
Oil Viscosity	ISO22
Weight	10.4 Kg

ELECTRICAL COMPONENTS

Start Capacitor	53-64 µf/330 V
Run Capacitor	7.0 µf/400 V
CSR CSIR BOX	Yes
Starting Device Description	RVA4L3C-566
Overload Protection	T0874/G9

PERFORMANCE

TESTED CONDITIONS

Tested Refrigerant	R-290
Tested Application	MBP
Tested Standard	ASHRAE
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
54.4	-6.7	1021	2.06	494	2.61	11.67

Test Condition: Subcooling 8.3 K, Return Gas 35 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
-20	757	2.18	347	2.00	7.29
-15	936	2.51	373	2.10	9.05
-10	1147	2.85	402	2.20	11.13
-5	1390	3.23	430	2.29	13.55
0	1665	3.68	453	2.38	16.33
5	1974	4.23	467	2.47	19.49
10	2317	4.95	468	2.56	23.04

Test Condition: Subcooling 8.3 K, Return Gas 35 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
-20	671	1.75	384	2.10	6.99
-15	832	2.03	411	2.23	8.70
-10	1022	2.29	445	2.35	10.72
-5	1239	2.57	483	2.48	13.07
0	1486	2.86	519	2.60	15.77
5	1763	3.20	551	2.73	18.84
10	2070	3.60	575	2.85	22.29

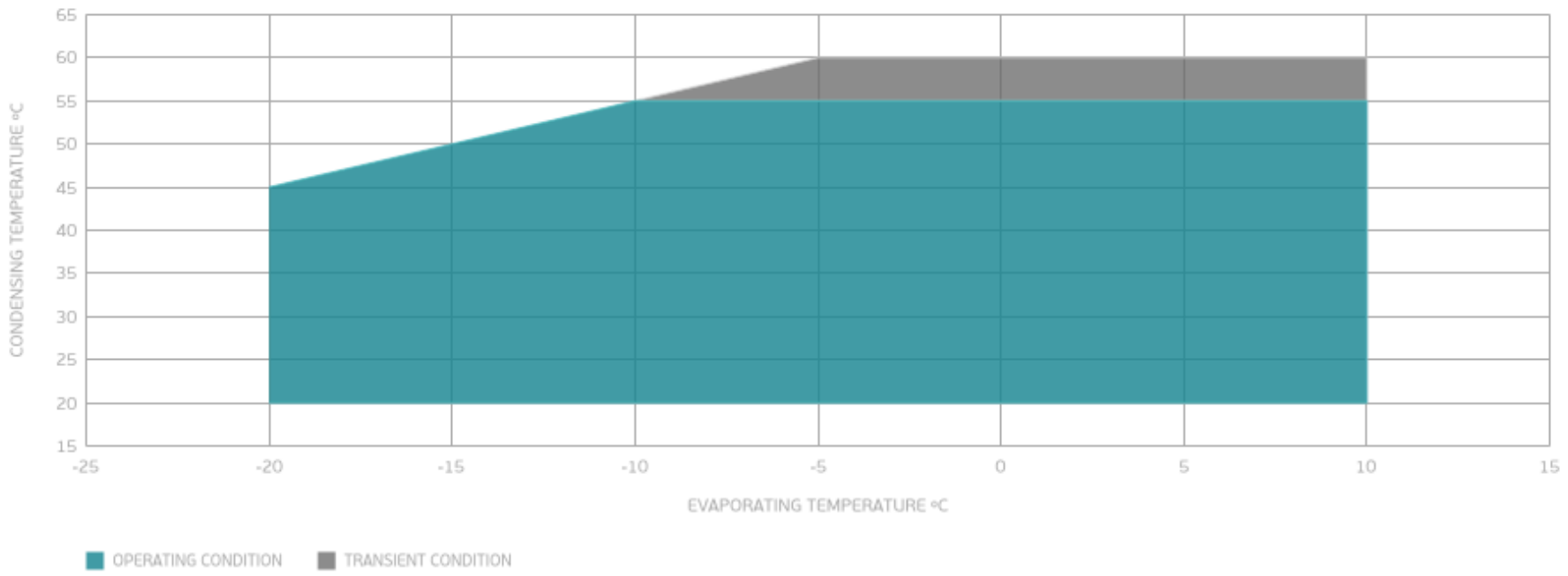
Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE — Condensing Temperature 55ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Power Consumption W	Current A	Gas Flow Rate kg/h
-10	887	1.90	468	2.52	10.17
-5	1080	2.12	510	2.68	12.45
0	1298	2.33	556	2.84	15.06
5	1542	2.56	602	3.01	18.04
10	1814	2.82	643	3.17	21.39

Test Condition: Subcooling 8.3 K, Return Gas 35 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



External

EXTERNAL CHARACTERISTICS

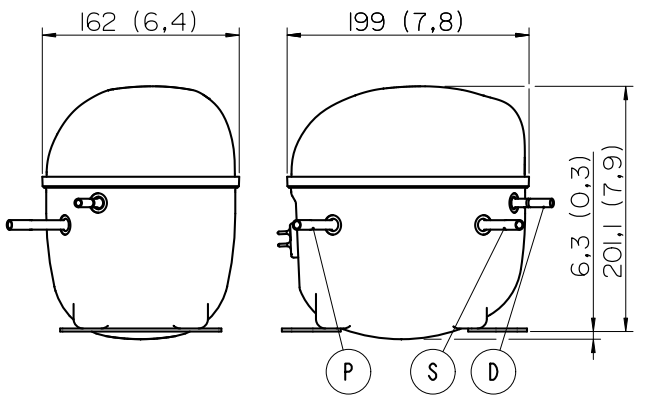
Base Plate	SMALL
Tray Holder	NO

Connector	Internal Diameter	Shape	Material
Suction	8.1 mm	SLANTED 42°	COPPER
Discharge	6.1 mm	STRAIGHT	COPPER

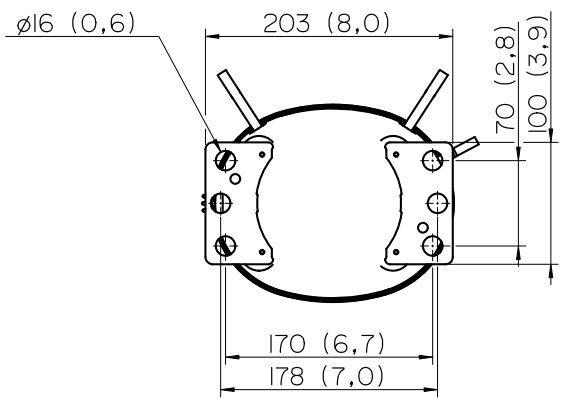
Process	6.1 mm	SLANTED 42°	COPPER

EXTERNAL DIMENSIONS

SHELL



BASE



FENCE