

APPROVALS




 **ENGINEERING CODE**
842NA04


 **APPROVED REFRIGERANT**
R-290

 **POWER SUPPLY**
220-240 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
MBP

 **COOLING CAPACITY**
1132 W (MBP)

 **EFFICIENCY**
1.84 W/W (MBP)

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	17.39 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	3/4 hp
Max Condensing Pressure Operating	18.07 bar
Max Condensing Pressure Peak	20.17 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	9 Ω at 25° C
Run Winding Resistance	2.3 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	450 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Without dry air charge
Weight	17 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
Run Capacitor	15
Start Capacitor	43-53 Uf / 330 V
CSR / CSIR Box	YES
Starting Device	RVA4AL3C-560
Motor Protection	T0485/G9

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	220 mm	
Connector	Internal Diameter	Shape
Suction	9.6 mm	Vertical/Copper
Discharge	6.42 mm	Vertical/Copper
Process	6.42 mm	Vertical/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
45.00°C	-10.00°C	1132 W	615 W	3.51 A	13.93 kg/h	1.84 W/W

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation -10.00°C, Condensing 45.00°C, Ambient 35°C, Liquid 45°C, Subcooling OK. Data in accordance to EN

12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	858	499	3.14	9.51	1.72
-15	1083	538	3.26	12.06	2.01
-10	1352	579	3.39	15.14	2.34
-5	1671	617	3.52	18.83	2.71
0	2044	649	3.65	23.21	3.15
5	2476	674	3.79	28.36	3.68
10	2972	687	3.92	34.37	4.33

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	706	521	3.21	8.60	1.35
-15	898	567	3.35	10.99	1.59
-10	1132	615	3.51	13.93	1.84
-5	1411	664	3.68	17.49	2.13
0	1742	708	3.86	21.76	2.46
5	2128	747	4.04	26.82	2.85
10	2574	775	4.23	32.76	3.32

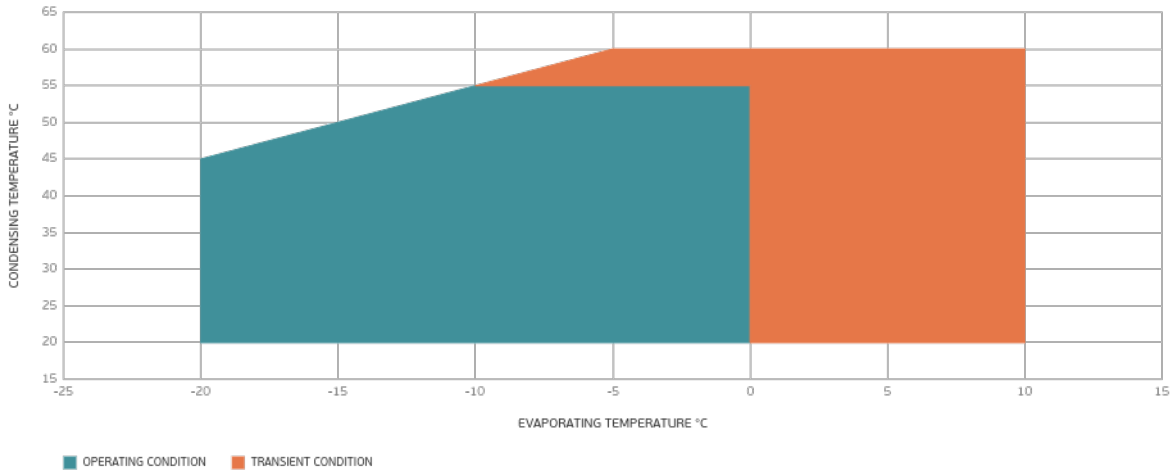
Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

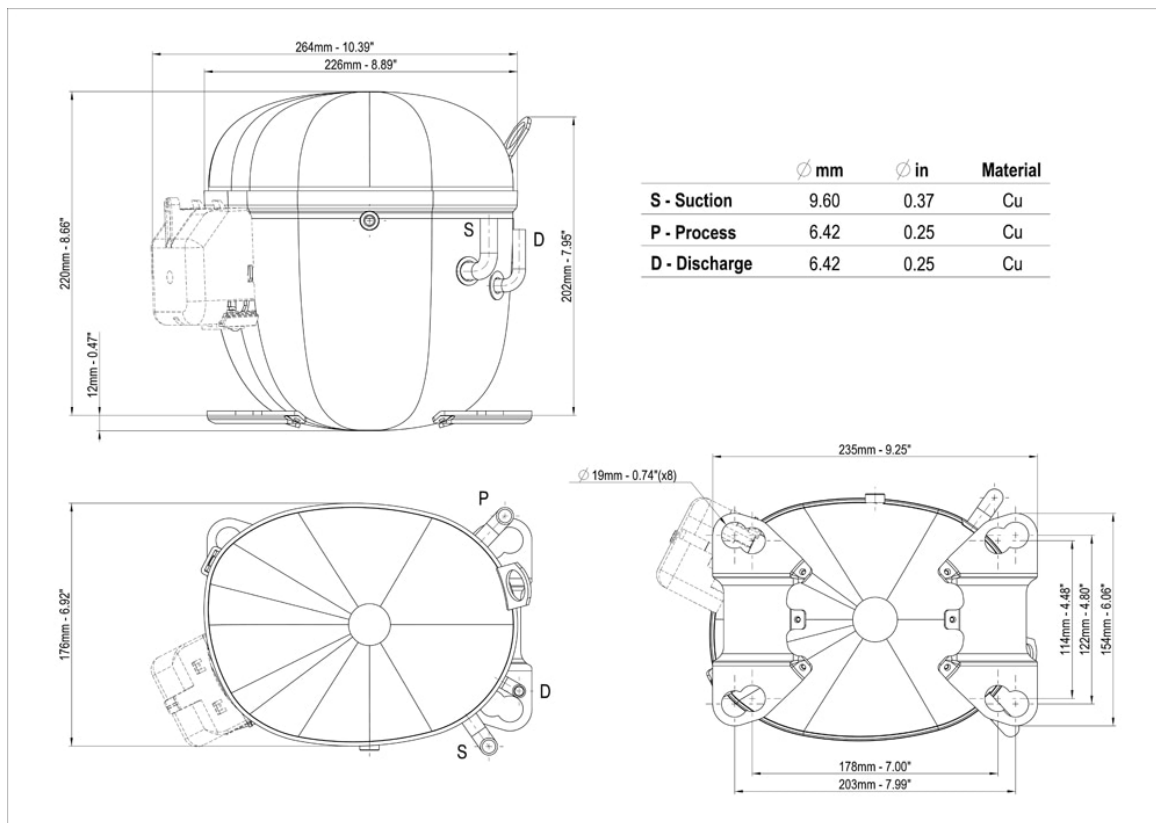
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	922	650	3.65	12.66	1.42
-5	1159	710	3.86	16.05	1.63
0	1444	768	4.09	20.17	1.88
5	1781	822	4.33	25.09	2.17
10	2174	868	4.58	30.91	2.51

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

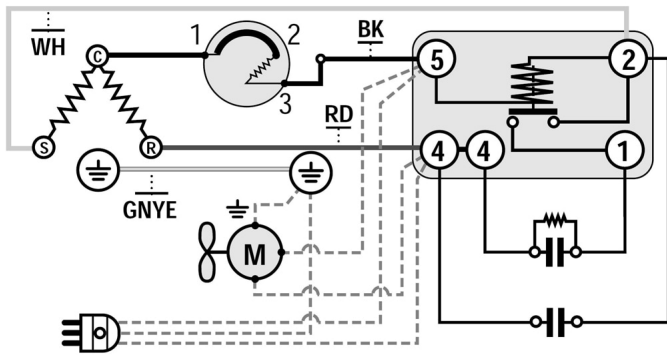
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

