

APPROVALS



ENGINEERING CODE
212ED09

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
208-230 V 60 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
HBP

COOLING CAPACITY
1969 W (HBP)

EFFICIENCY
2.33 W/W (HBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	20.44 cm ³
Compressor Cooling	Fan/NotControlled/230
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	3/4 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	208-230 V 60 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	6.03 Ω at 25° C
Run Winding Resistance	1.84 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	16.7 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
Run Capacitor	15
Start Capacitor	64-77 Uf / 330 V
CSR / CSIR Box	YES
Starting Device	RVA2AI3C-124
Motor Protection	T0905/G9

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	220 mm	
Connector	Internal Diameter	Shape
Suction	12.7 mm	ROTOLOCK(Ex. thr. 1"-14UNS-2A)/Steel
Discharge	6.42 mm	Vertical/Copper
Process	6.42 mm	Vertical/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
50.00°C	5.00°C	1969 W	846 W	49.54 kg/h	2.33 W/W

Test Condition: EN12900HBP, Fan/NotControlled/230, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C, Liquid 50°C, Subcooling OK. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	1030	535	21.79	1.92
-10	1313	587	27.93	2.24
-5	1643	638	35.12	2.57
0	2020	689	43.44	2.93
5	2446	739	52.99	3.31
10	2922	790	63.89	3.7

Test Condition: EN12900HBP, Fan/NotControlled/230, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	870	559	20.21	1.56
-10	1120	625	26.13	1.79
-5	1413	688	33.14	2.05
0	1751	751	41.35	2.33
5	2135	813	50.84	2.63
10	2567	876	61.73	2.93

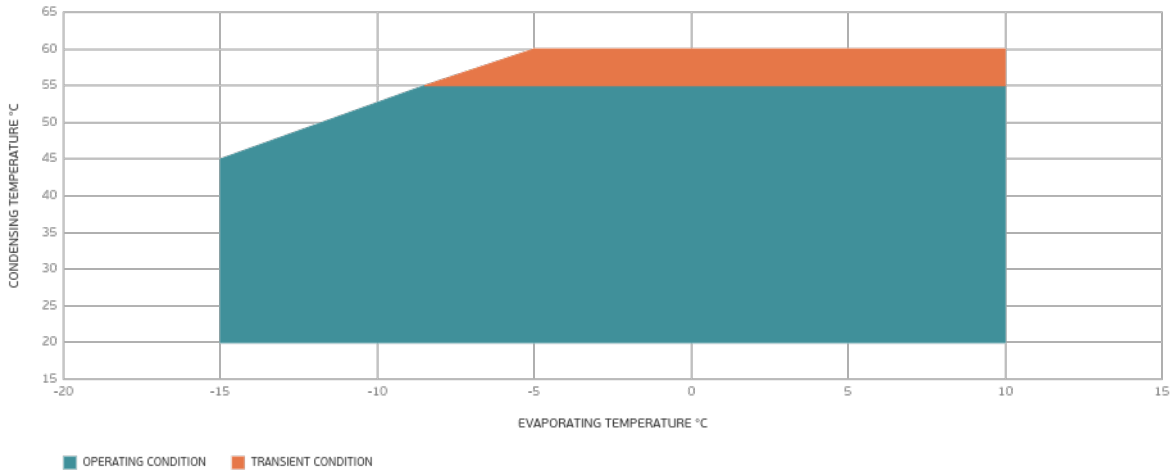
Test Condition: EN12900HBP, Fan/NotControlled/230, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

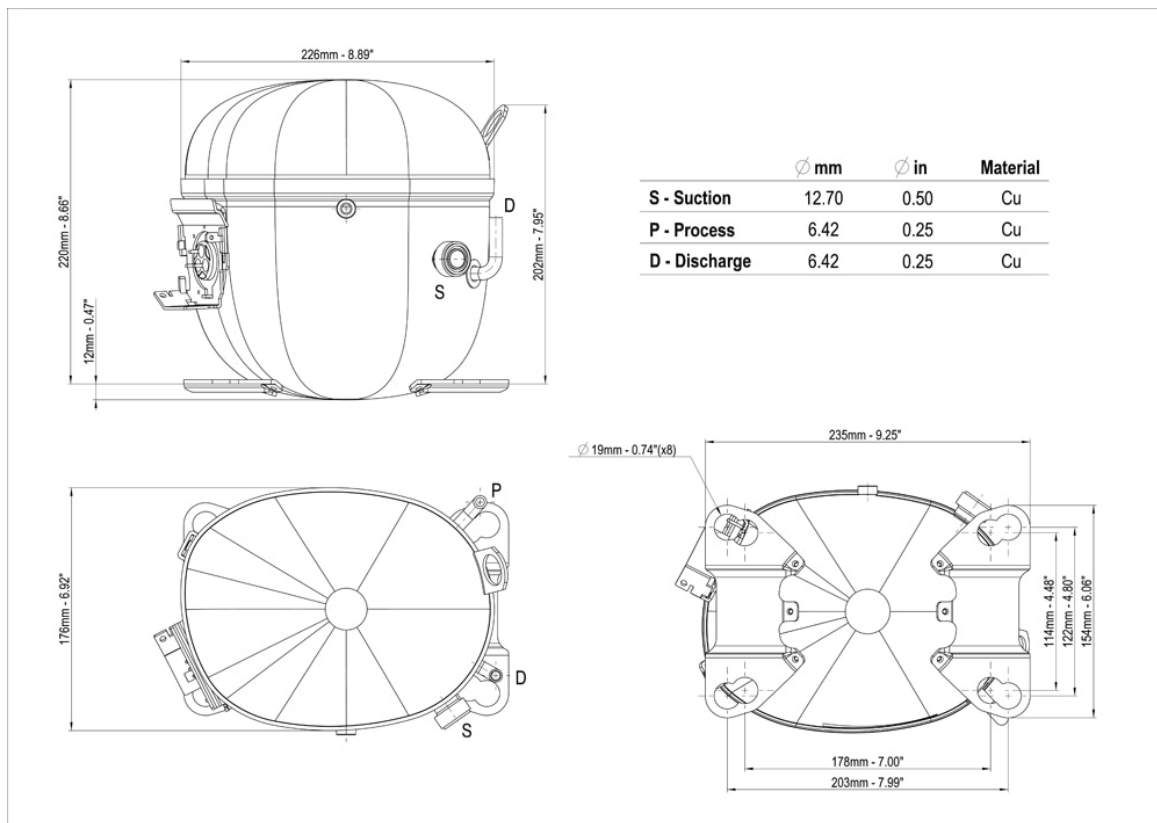
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	944	665	24.48	1.42
-5	1197	736	31.22	1.63
0	1491	807	39.21	1.85
5	1829	877	48.55	2.09
10	2212	947	59.33	2.34

Test Condition: EN12900HBP, Fan/NotControlled/230, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

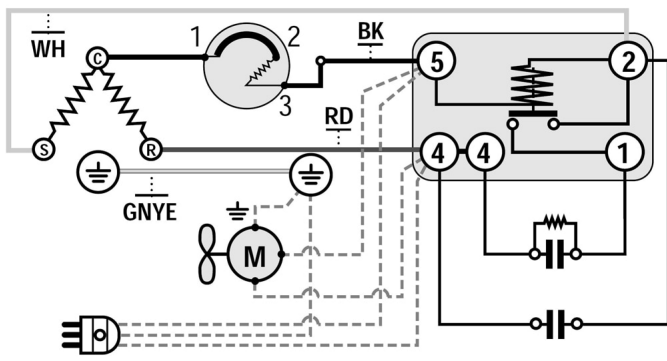
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

