

APPROVALS



ENGINEERING CODE
925DA02

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
761 W (LBP)

EFFICIENCY
1.14 W/W (LBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	27.8 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 1/2 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	3.89 Ω at 25° C
Run Winding Resistance	1.69 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	650 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	18.3 Kg
Free Internal Volume	3.75 L

Electrical Components

	Description
Run Capacitor	20
Start Capacitor	88-108 Uf / 330 V
CSR / CSIR Box	YES
Starting Device	RVA2E3C-103
Motor Protection	15HM1962-240

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	250 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	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	761 W	666 W	20.38 kg/h	1.14 W/W

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C, Liquid 40°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
-40	612	575	15.53	1.06
-35	812	661	20.75	1.23
-30	1062	751	27.22	1.41
-25	1361	844	35.06	1.61
-20	1713	940	44.40	1.82
-15	2119	1041	55.37	2.04
-10	2583	1146	68.08	2.25

Test Condition: EN12900LBP, Fan/NotControlled/220, 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
-35	661	676	19.15	0.98
-30	872	785	25.37	1.11
-25	1127	899	32.96	1.25
-20	1426	1016	42.03	1.4
-15	1773	1137	52.73	1.56
-10	2169	1263	65.16	1.72

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

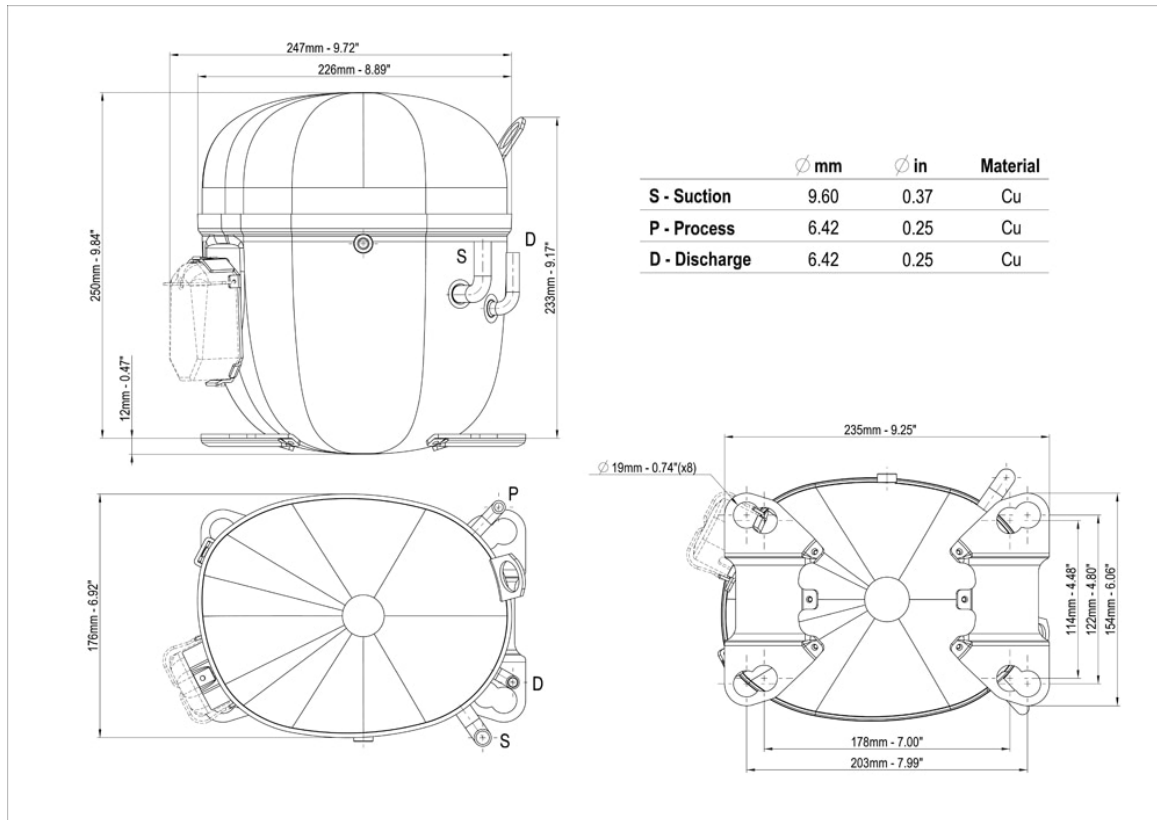
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-30	679	823	23.16	0.82
-25	885	951	30.44	0.93
-20	1130	1083	39.20	1.04
-15	1414	1219	49.57	1.16
-10	1741	1360	61.67	1.28

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

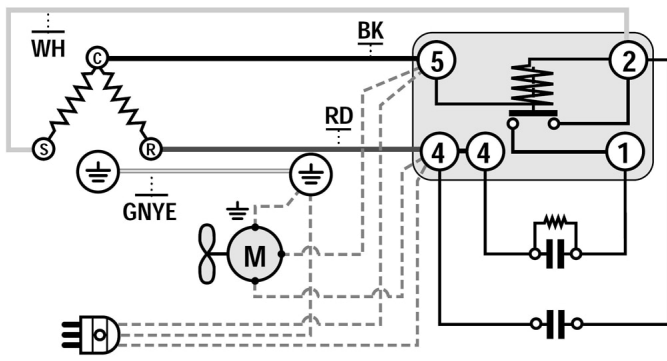
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

