

APPROVALS




 **ENGINEERING CODE**
959KC51


 **APPROVED REFRIGERANT**
R-404A

 **POWER SUPPLY**
220 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
474 W (LBP)

 **EFFICIENCY**
1.08 W/W (LBP)

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	16.8 cm ³
Compressor Cooling	Fan/Controlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	3/4 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	220 V 50 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	13.9 Ω at 25° C
Run Winding Resistance	3.1 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	11.8 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
Run Capacitor	10
CSR / CSIR Box	YES
Starting Device	RVA403C-123
Motor Protection	T0964/G6

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	206 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.1 mm	Straight/Copper
Process	6.1 mm	Slanted 42°/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	474 W	437 W	2.71 A	12.73 kg/h	1.08 W/W

Test Condition: EN12900LBP, Fan/Controlled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C, Liquid 40°C, Subcooling 0K. 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
-40	377	378	2.5	9.56	1
-35	502	433	2.68	12.82	1.16
-30	656	491	2.89	16.82	1.34
-25	840	551	3.12	21.63	1.52
-20	1053	615	3.38	27.30	1.71
-15	1297	681	3.66	33.87	1.9
-10	1570	749	3.96	41.39	2.1

Test Condition: EN12900LBP, Fan/Controlled/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
-35	419	447	2.73	12.12	0.94
-30	552	513	2.97	16.04	1.08
-25	710	585	3.24	20.75	1.21
-20	893	661	3.54	26.30	1.35
-15	1101	742	3.88	32.75	1.48
-10	1336	828	4.25	40.13	1.61

Test Condition: EN12900LBP, Fan/Controlled/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

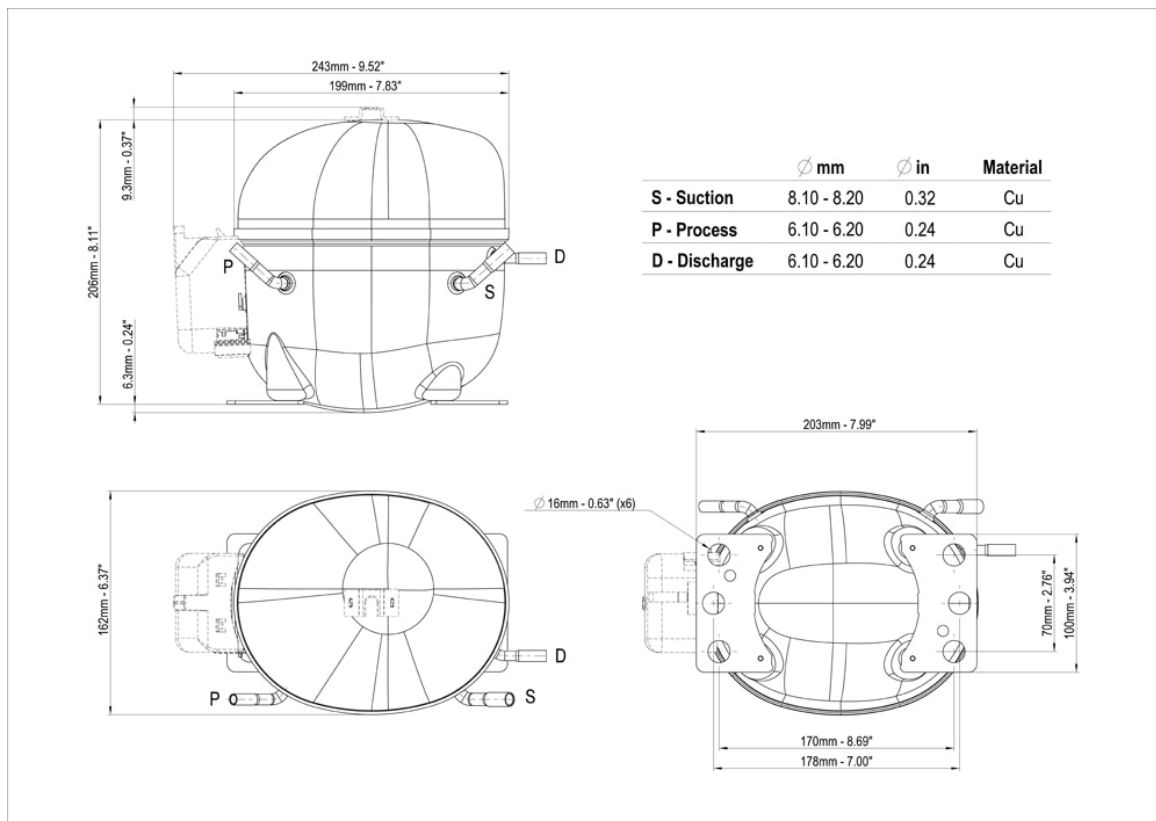
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	441	528	3.01	15.04	0.84
-25	571	608	3.34	19.64	0.94
-20	723	695	3.7	25.07	1.04
-15	895	789	4.1	31.37	1.14
-10	1090	890	4.55	38.61	1.22

Test Condition: EN12900LBP, Fan/Controlled/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.

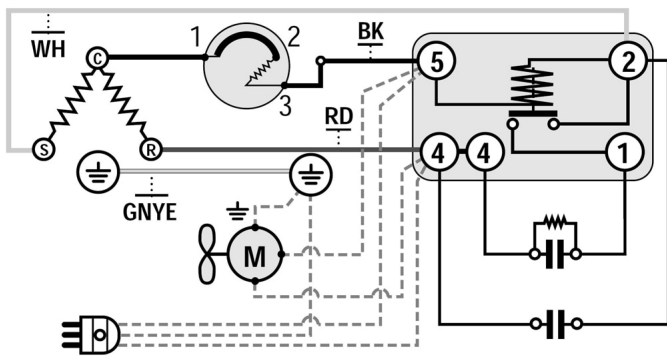
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

