



APPROVALS



 **ENGINEERING CODE**
268GA51

 **APPROVED REFRIGERANT**
R-134a

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

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
HBP

 **COOLING CAPACITY**
1264 W (HBP)

 **EFFICIENCY**
2.36 W/W (HBP)

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.28 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	27.92 Ω at 25° C
Run Winding Resistance	4.53 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	11.14 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	53-64 Uf / 330 V
CSR / CSIR Box	YES
Starting Device	RVA4L3C-566
Run Capacitor	7
Motor Protection	MST30APK-3261

External Characteristics

Base Plate		European	
Tray Holder		No	
Height		200 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	Gas Flow Rate	Efficiency
50.00°C	5.00°C	1264 W	536 W	31.79 kg/h	2.36 W/W

Test Condition: EN12900HBP, Fan/NotControlled/220, 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	645	334	13.64	1.93
-10	820	365	17.45	2.25
-5	1028	398	21.98	2.58
0	1270	432	27.31	2.94
5	1549	467	33.55	3.31
10	1865	505	40.78	3.7

Test Condition: EN12900HBP, 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
-15	557	351	12.94	1.59
-10	712	389	16.62	1.83
-5	897	428	21.03	2.09
0	1113	469	26.28	2.37
5	1363	512	32.46	2.66
10	1649	557	39.66	2.96

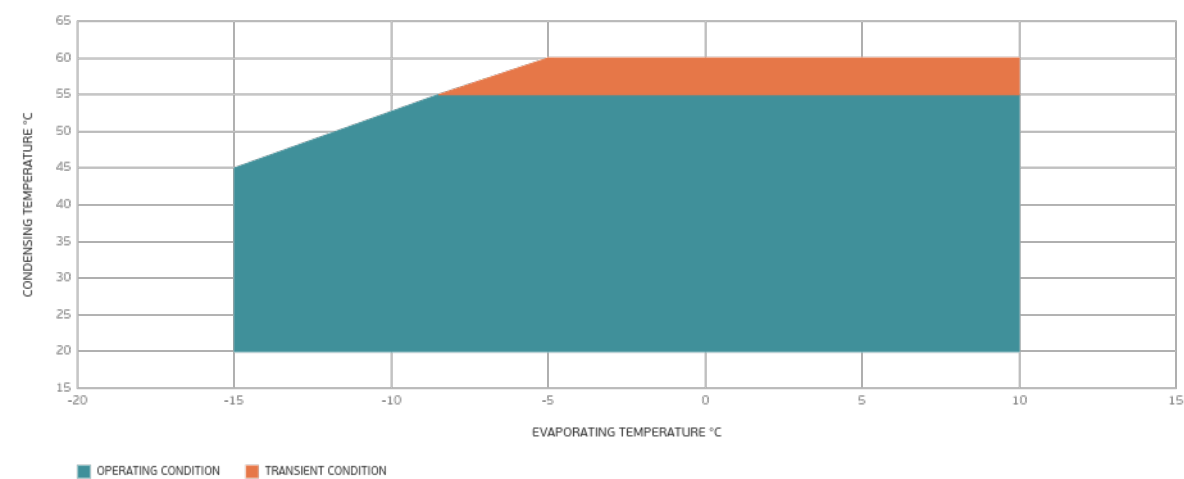
Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

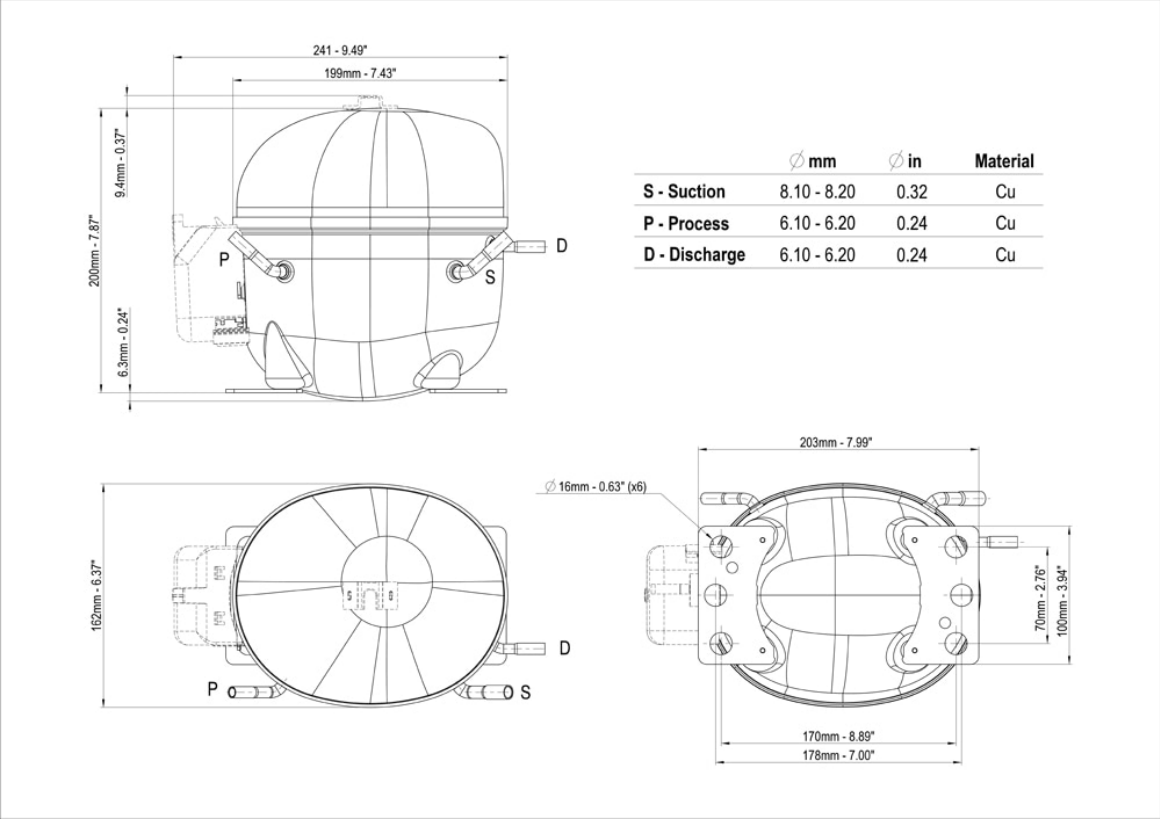
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	612	413	15.87	1.48
-5	771	458	20.12	1.68
0	960	504	25.23	1.9
5	1179	552	31.30	2.14
10	1432	603	38.41	2.38

Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

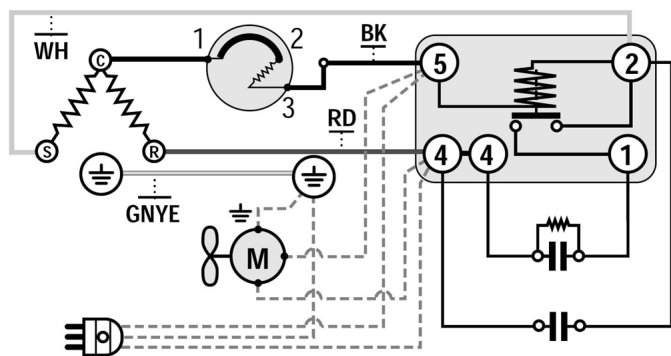
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

