



APPROVALS



 **ENGINEERING CODE**
959HA51

 **APPROVED REFRIGERANT**
R-404A

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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
LBP

 **COOLING CAPACITY**
713 W

 **EFFICIENCY**
1.3 W/W

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.28 cm ³
Compressor Cooling	Fan
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	220-240 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	3.3 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	12.3 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
CSR / CSIR Box	yes
Starting Device	Potential relay RVA403C-123
Start Capacitor	88-108 ?F / 330V
Motor Protection	External 3/4" T0634/G9

External Characteristics

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

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	713 W	550 W	2.98 A	16.50 kg/h	1.3 W/W

Test Condition: ASHRAE, Fan, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to ASHRAE guideline polynomial curve.

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	338	341	2.4	7.72	0.99
-35	445	386	2.5	10.23	1.15
-30	582	434	2.63	13.44	1.34
-25	749	483	2.77	17.36	1.55
-20	945	535	2.94	22.02	1.77
-15	1171	588	3.13	27.46	1.99
-10	1428	643	3.34	33.70	2.22

Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	409	394	2.48	9.38	1.04
-30	541	449	2.64	12.46	1.21
-25	702	507	2.82	16.24	1.38
-20	892	568	3.04	20.74	1.57
-15	1110	632	3.29	25.97	1.76
-10	1358	699	3.56	31.98	1.94

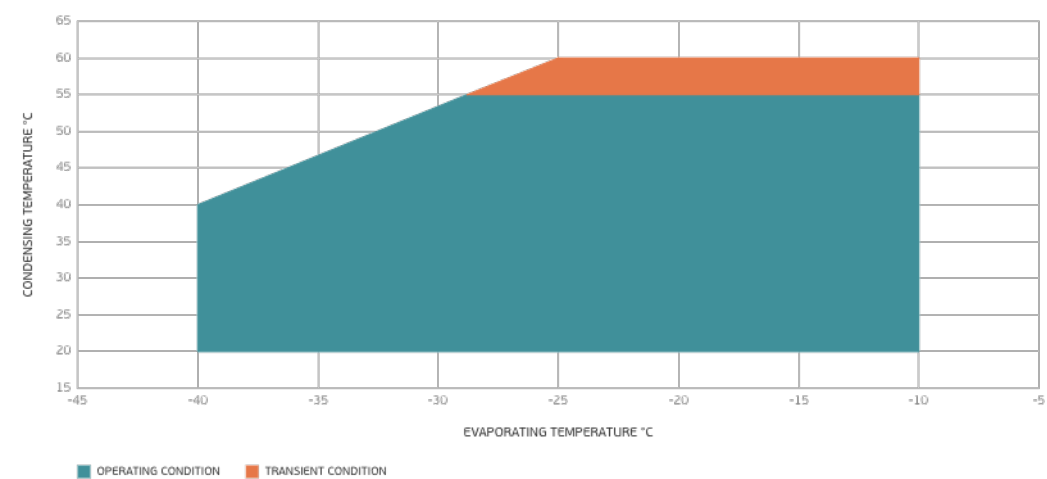
Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

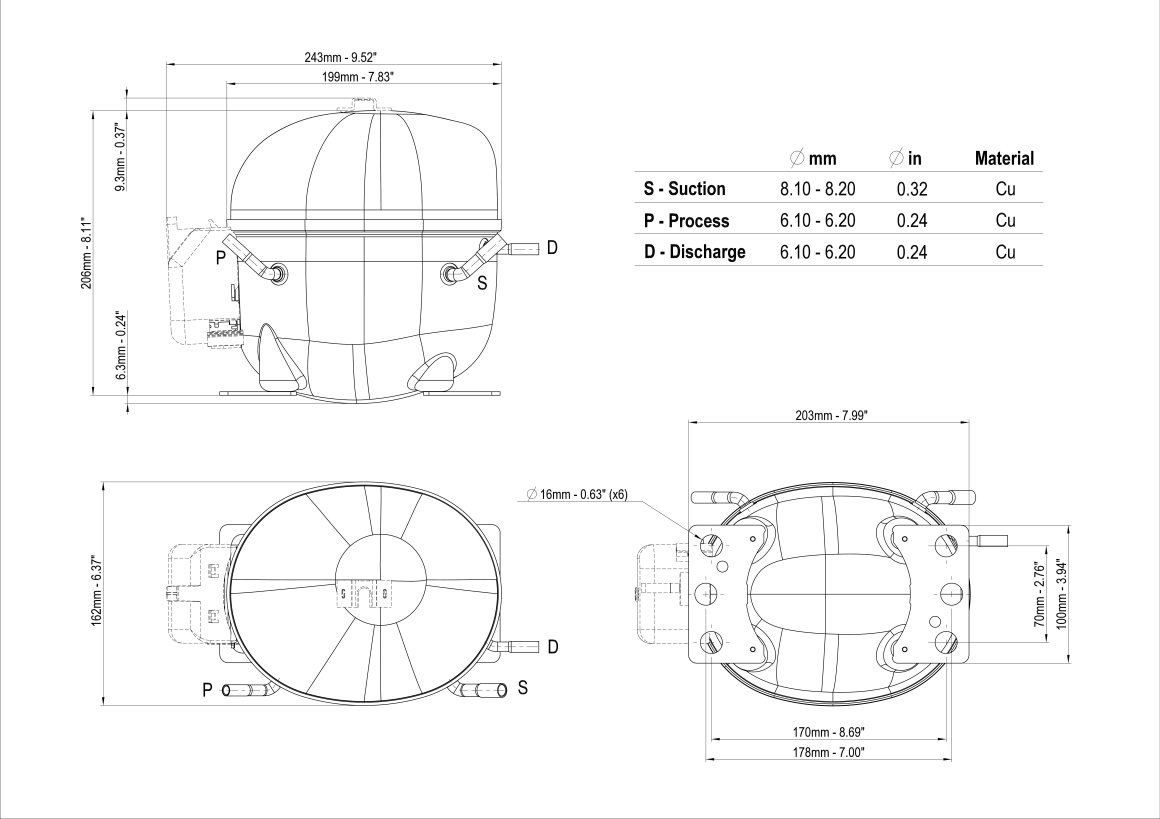
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	498	462	2.69	11.46	1.08
-25	651	528	2.91	15.04	1.23
-20	832	599	3.16	19.32	1.39
-15	1041	674	3.45	24.31	1.54
-10	1278	753	3.78	30.04	1.7

Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

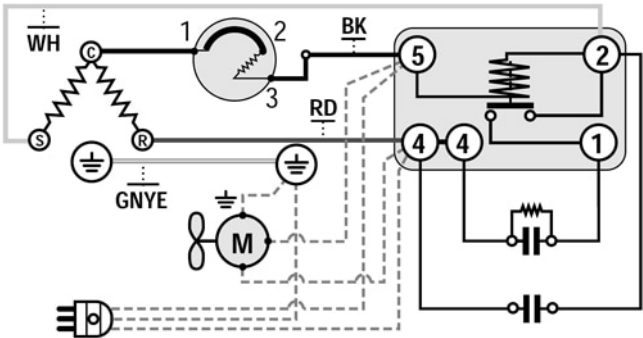
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

