



APPROVALS



 **ENGINEERING CODE**
923BA08

 **APPROVED REFRIGERANT**
R-404A

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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
MBP

 **COOLING CAPACITY**
3387 W

 **EFFICIENCY**
2.48 W/W

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	22.4 cm ³
Compressor Cooling	Fan
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 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	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	8.31 Ω at 25° C
Run Winding Resistance	1.63 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	18.2 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
CSR / CSIR Box	yes
Starting Device	Potential relay RVA403C-123
Start Capacitor	130-156 ?F / 250V
Motor Protection	External 3/4" T0828/C9

External Characteristics

Base Plate		Universal	
Tray Holder		No	
Height		234 mm	
Connector	Internal Diameter		Shape
Suction	12.7 mm	ROTOLOCK 1"-14UNS-2A	
Discharge	6.42 mm	Vertical	
Process	6.42 mm	Vertical	

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	3387 W	1368 W	6.56 A	95.17 kg/h	2.48 W/W

Test Condition: ASHRAE, Fan, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C , Liquid 46.1°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
-20	1542	759	3.81	33.39	2.03
-15	1928	824	4.09	42.01	2.34
-10	2394	889	4.37	52.47	2.69
-5	2941	955	4.67	64.91	3.08
0	3569	1022	4.97	79.48	3.49
5	4281	1091	5.28	96.32	3.93
10	5075	1160	5.59	115.57	4.37

Test Condition: ASHRAE, Fan, MBP. 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
-20	1315	814	4.05	31.44	1.62
-15	1652	893	4.4	39.75	1.85
-10	2056	972	4.75	49.81	2.12
-5	2529	1051	5.1	61.75	2.41
0	3071	1130	5.46	75.71	2.72
5	3684	1210	5.83	91.85	3.04
10	4366	1291	6.19	110.30	3.38

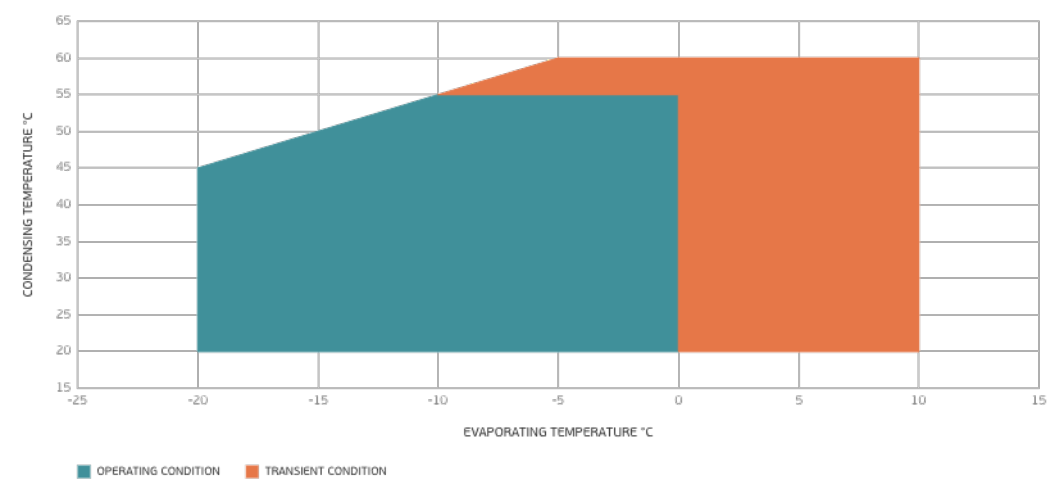
Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

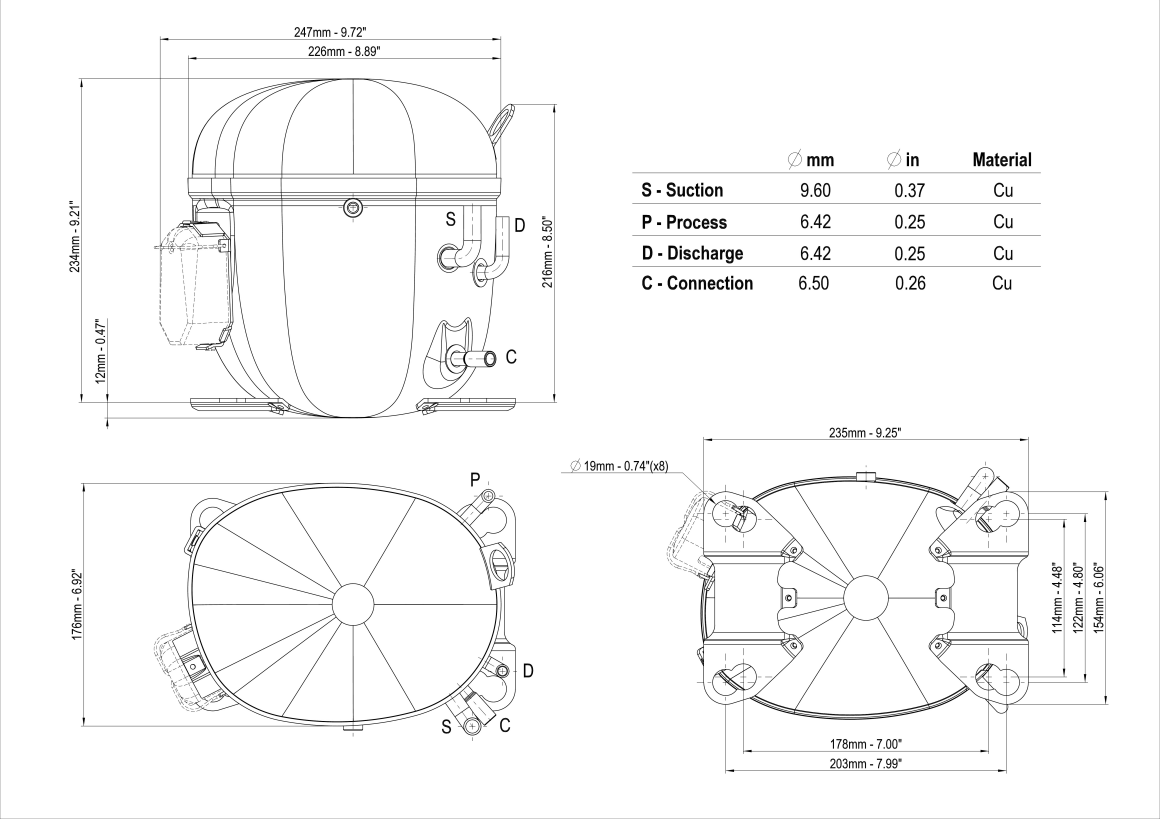
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	1734	1055	5.12	47.21	1.64
-5	2134	1149	5.55	58.63	1.86
0	2591	1242	5.98	71.98	2.09
5	3106	1335	6.4	87.40	2.33
10	3678	1428	6.83	105.04	2.58

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

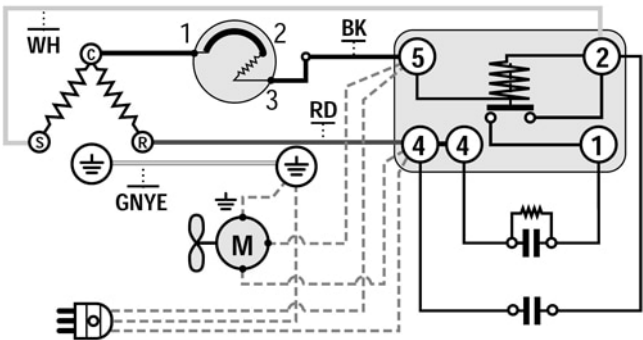
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

