

APPROVALS



ENGINEERING CODE
925ED60

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
208-230 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
MBP

COOLING CAPACITY
3024 W (MBP)

EFFICIENCY
1.8 W/W (MBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	26.21 cm ³
Compressor Cooling	Fan/NotControlled/230
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	208-230 V 60 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	3.03 Ω at 25° C
Run Winding Resistance	1.17 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
CSR / CSIR Box	YES
Run Capacitor	30
Motor Protection	15HM1971-247
Start Capacitor	108-130 Uf / 330 V
Starting Device	RVA4AL3C-649

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	250 mm	
Connector	Internal Diameter	Shape
Suction	12.77 mm	Slanted/Copper
Discharge	9.6 mm	Vertical/Copper
Process	6.42 mm	Vertical/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
54.40°C	-6.70°C	3024 W	1684 W	82.65 kg/h	1.8 W/W

Test Condition: ASHRAEMBP46, Fan/NotControlled/230, Return Gas 35°C, Evaporation -6.70°C, Condensing 54.40°C, Ambient 35°C, Liquid 46.1°C, Subcooling 8.3K. 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
-20	2555	1190	55.49	2.15
-15	3105	1282	67.83	2.42
-10	3737	1362	82.14	2.74
-5	4471	1432	98.96	3.12
0	5322	1489	118.88	3.57
5	6310	1535	142.45	4.11
10	7453	1569	170.24	4.75

Test Condition: ASHRAEMB46, Fan/NotControlled/230, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. 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
-20	2114	1246	50.69	1.7
-15	2623	1374	63.29	1.91
-10	3199	1492	77.72	2.14
-5	3858	1599	94.52	2.41
0	4621	1697	114.28	2.72
5	5503	1784	137.54	3.09
10	6523	1860	164.88	3.51

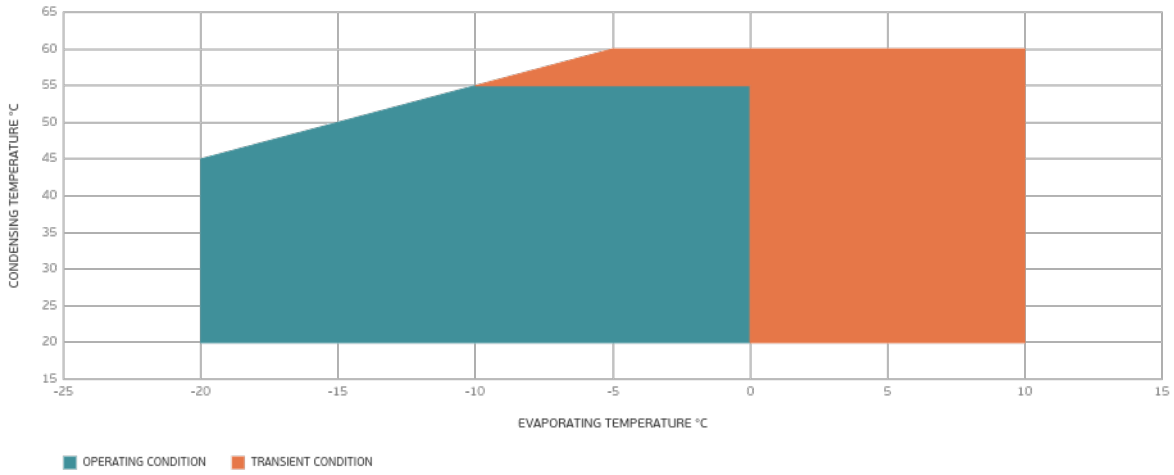
Test Condition: ASHRAEMB46, Fan/NotControlled/230, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

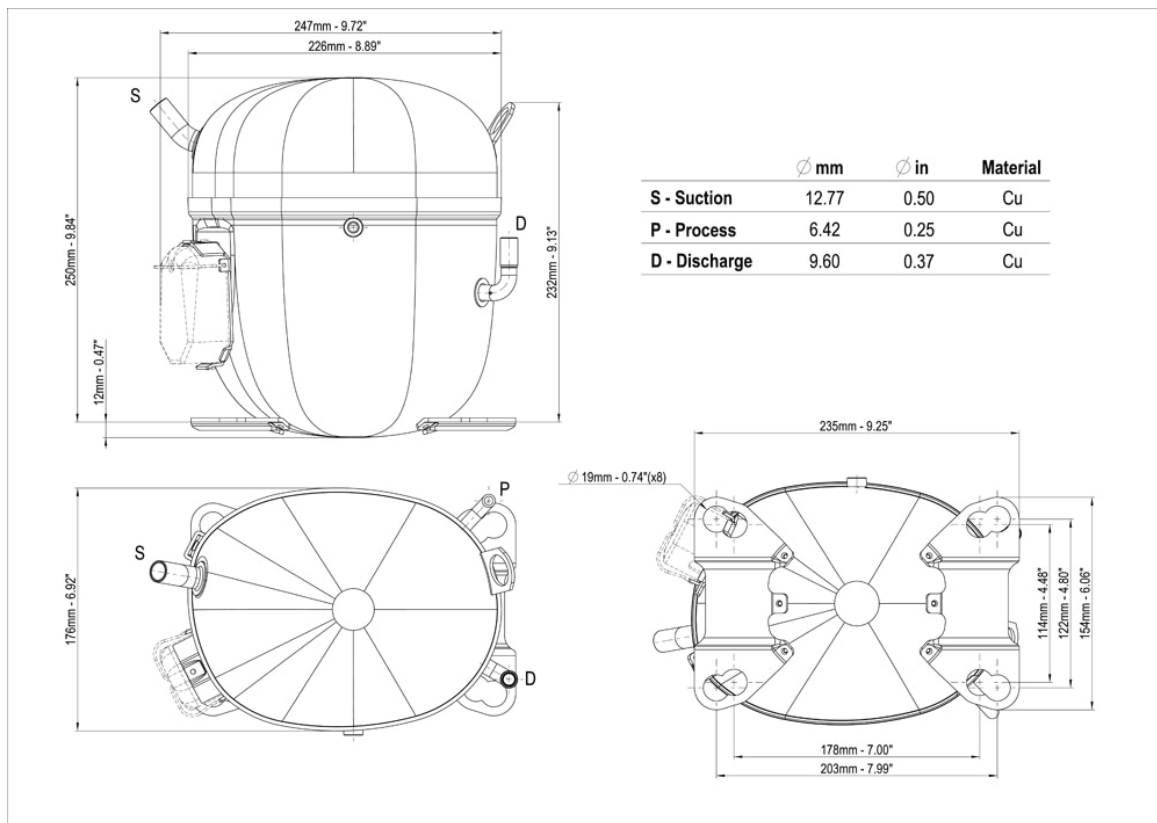
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	2615	1595	71.47	1.64
-5	3203	1738	88.41	1.84
0	3878	1873	108.16	2.07
5	4657	1999	131.27	2.33
10	5558	2116	158.31	2.63

Test Condition: ASHRAEMB46, Fan/NotControlled/230, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

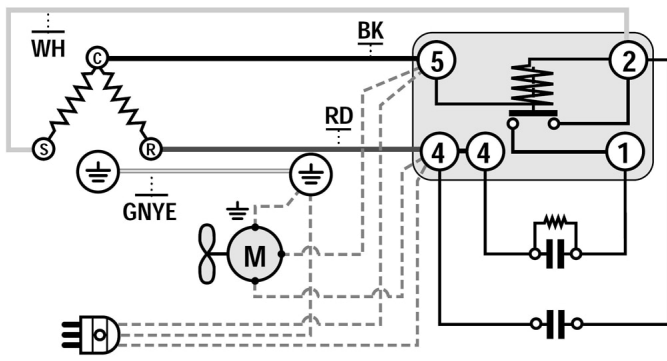
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

