

APPROVALS



ENGINEERING CODE
944LV95

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
230 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
MBP

COOLING CAPACITY
1861 W (MBP)

EFFICIENCY
1.79 W/W (MBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	21.71 cm ³
Compressor Cooling	Fan/NotControlled/230
Fan Air Flow	800 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	230 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSCR
Starting Torque	HST
Start Winding Resistance	7.8 Ω at 25° C
Run Winding Resistance	2.12 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	750 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	20.7 Kg
Free Internal Volume	3.9 L

Electrical Components

	Description
Run Capacitor	20
CSR / CSIR Box	YES
Motor Protection	T0736/C9
Starting Device	RVA4M3C-110
Start Capacitor	88-108 Uf/330 V

External Characteristics

Base Plate	Large	
Tray Holder	No	
Height	265 mm	
Connector	Internal Diameter	Shape
Suction	9.6 mm	Vertical/Copper
Discharge	8 mm	Slanted J/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	1861 W	1040 W	50.87 kg/h	1.79 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	1386	749	30.11	1.85
-15	1780	819	38.88	2.17
-10	2250	885	49.46	2.54
-5	2803	946	62.05	2.96
0	3442	1001	76.88	3.44
5	4173	1049	94.15	3.98
10	5000	1091	114.08	4.58

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	1165	753	27.95	1.55
-15	1511	842	36.46	1.79
-10	1923	929	46.73	2.07
-5	2406	1012	58.95	2.38
0	2965	1092	73.34	2.72
5	3605	1167	90.11	3.09
10	4330	1237	109.48	3.5

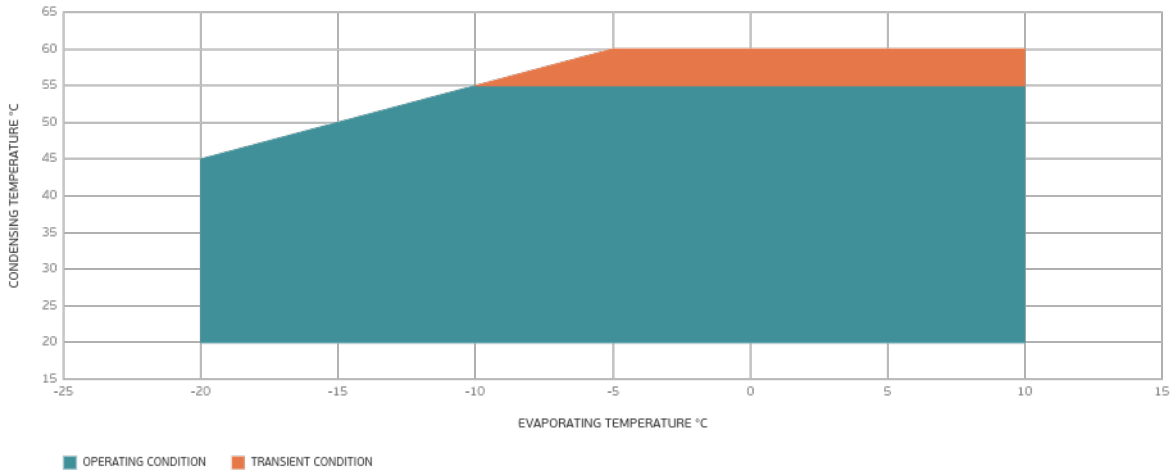
Test Condition: ASHRAEMB46, Fan/NotControlled/230, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

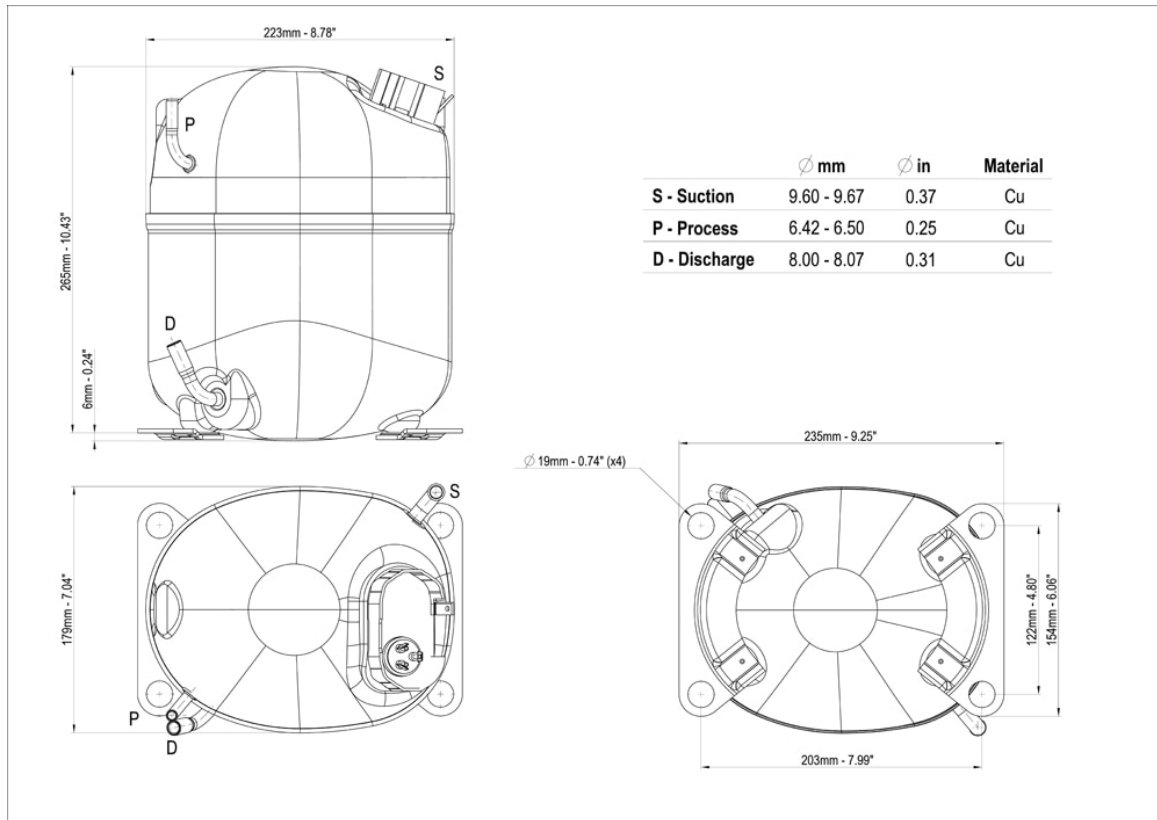
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-20	926	760	24.95	1.22
-15	1224	867	33.20	1.41
-10	1578	974	43.13	1.62
-5	1991	1078	54.95	1.85
0	2470	1180	68.89	2.09
5	3018	1280	85.14	2.36
10	3642	1377	103.93	2.64

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

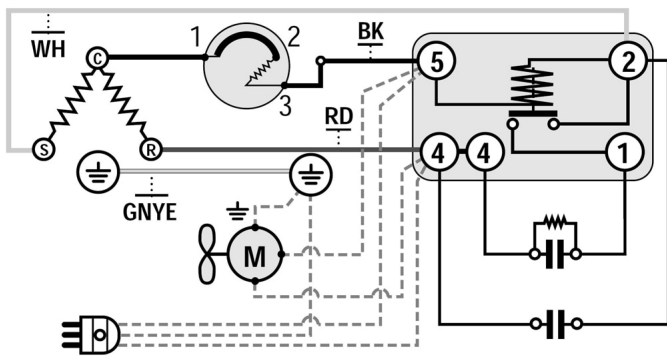
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

