



APPROVALS



ENGINEERING CODE
925BD60

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
208-230 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
MBP

COOLING CAPACITY
2826 W (MBP)

EFFICIENCY
1.95 W/W (MBP)

MOTOR TYPE
CSCR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	23.74 cm ³
Compressor Cooling	Fan/NotControlled/230
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 1/4 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	3.09 Ω at 25° C
Run Winding Resistance	1.27 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	18.1 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	3ARR3B6V3

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	2826 W	1450 W	77.24 kg/h	1.95 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	2275	1006	49.40	2.26
-15	2798	1079	61.13	2.59
-10	3414	1150	75.03	2.97
-5	4132	1218	91.48	3.39
0	4962	1281	110.84	3.87
5	5915	1340	133.49	4.41
10	7001	1393	159.81	5.03

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	1935	1064	46.40	1.82
-15	2400	1171	57.90	2.05
-10	2944	1271	71.51	2.32
-5	3576	1366	87.60	2.62
0	4308	1453	106.55	2.96
5	5149	1532	128.72	3.36
10	6110	1602	154.49	3.81

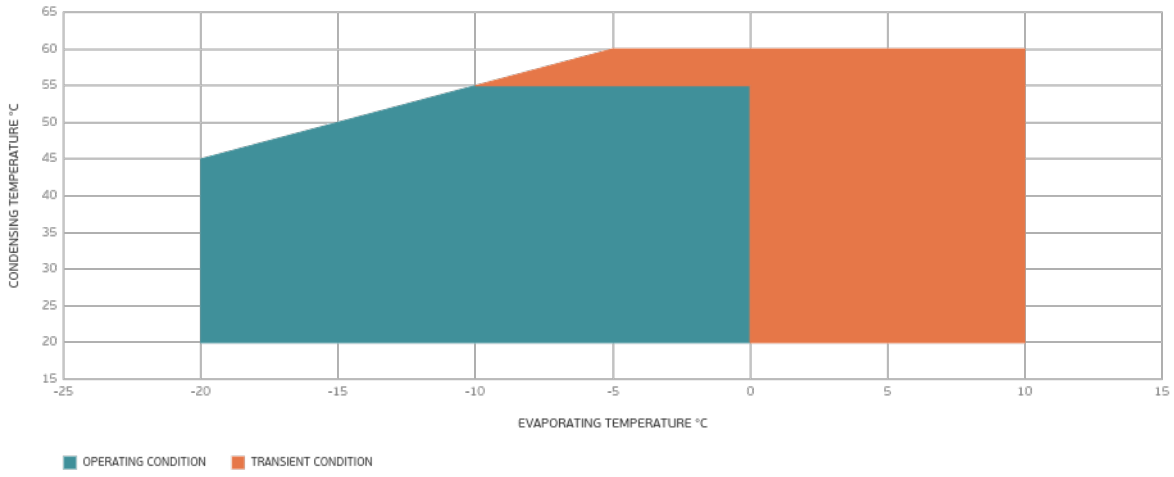
Test Condition: ASHRAEMB46, Fan/NotControlled/230, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	2449	1374	66.96	1.78
-5	2996	1496	82.69	2
0	3629	1608	101.20	2.26
5	4357	1708	122.88	2.55
10	5193	1797	148.09	2.89

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

