



APPROVALS




 **ENGINEERING CODE**
925AA60


 **APPROVED REFRIGERANT**
R-404A

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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
MBP

 **COOLING CAPACITY**
1937 W (MBP)

 **EFFICIENCY**
1.91 W/W (MBP)

 **MOTOR TYPE**
CSCR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	20.44 cm ³
Compressor Cooling	Fan/NotControlled/220
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	3.95 Ω at 25° C
Run Winding Resistance	1.47 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	18.4 Kg
Free Internal Volume	3.75 L

Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
CSR / CSIR Box	YES
Run Capacitor	25
Starting Device	3ARR3B10AS3
Motor Protection	15HM1963-247

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	1937 W	1013 W	52.90 kg/h	1.91 W/W

Test Condition: ASHRAEMBP46, Fan/NotControlled/220, 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	1563	710	33.92	2.2
-15	1918	758	41.92	2.53
-10	2350	796	51.67	2.95
-5	2866	825	63.44	3.47
0	3471	845	77.50	4.11
5	4172	855	94.14	4.88
10	4974	856	113.62	5.81

Test Condition: ASHRAEMBP46, Fan/NotControlled/220, 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	1347	756	32.28	1.78
-15	1657	826	40.00	2.01
-10	2032	887	49.36	2.29
-5	2476	940	60.63	2.63
0	2995	986	74.09	3.04
5	3597	1023	90.00	3.52
10	4286	1052	108.64	4.08

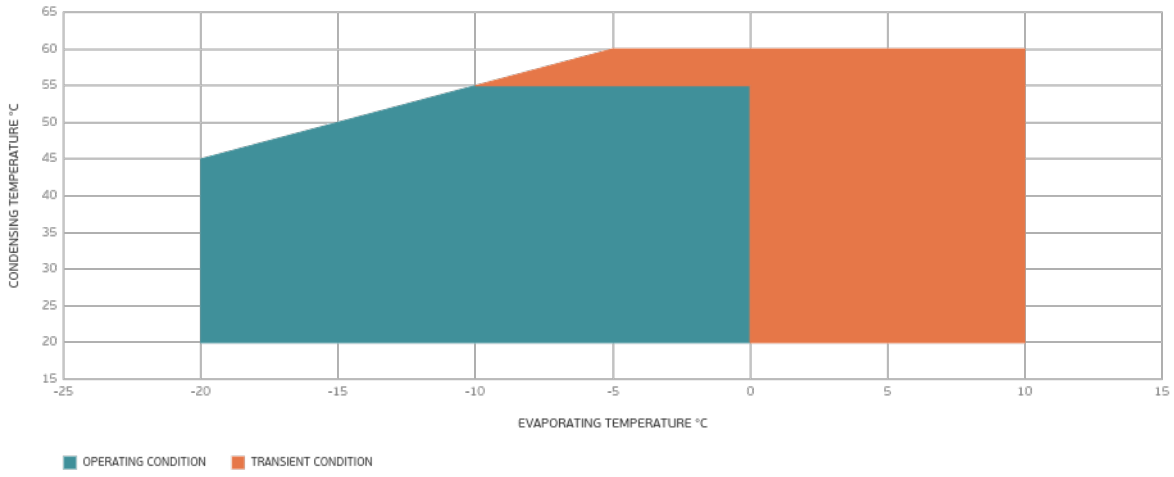
Test Condition: ASHRAEMBP46, Fan/NotControlled/220, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	1678	968	45.84	1.73
-5	2052	1040	56.59	1.97
0	2488	1105	69.42	2.25
5	2993	1163	84.59	2.57
10	3571	1215	102.38	2.94

Test Condition: ASHRAEMBP46, Fan/NotControlled/220, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions

