

APPROVALS




 **ENGINEERING CODE**
922BN04


 **APPROVED REFRIGERANT**
R-404A

 **POWER SUPPLY**
200-240 V 50 Hz

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
MBP

 **COOLING CAPACITY**
1215 W (MBP)

 **EFFICIENCY**
1.64 W/W (MBP)

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.5 cm ³
Compressor Cooling	Fan/NotControlled/200
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	3/4 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	200-240 V 50 Hz / 230 V 60 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	12.16 Ω at 25° C
Run Winding Resistance	1.86 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	17 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
Starting Device	Relay MTRPH-55*
Start Capacitor	88-108 Uf/330 V
Motor Protection	MRA38112-3259

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	220 mm	
Connector	Internal Diameter	Shape
Suction	9.6 mm	Vertical/Copper
Discharge	6.42 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	1215 W	741 W	33.21 kg/h	1.64 W/W

Test Condition: ASHRAEMB46, Fan/NotControlled/200, 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	943	499	20.46	1.89
-15	1203	544	26.29	2.21
-10	1510	590	33.21	2.56
-5	1867	637	41.33	2.93
0	2272	686	50.74	3.31
5	2727	735	61.54	3.71
10	3234	784	73.86	4.12

Test Condition: ASHRAEMB46, Fan/NotControlled/200, 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	786	525	18.87	1.5
-15	1001	585	24.16	1.71
-10	1262	647	30.64	1.95
-5	1569	712	38.39	2.2
0	1923	779	47.54	2.47
5	2326	847	58.19	2.75
10	2778	916	70.43	3.03

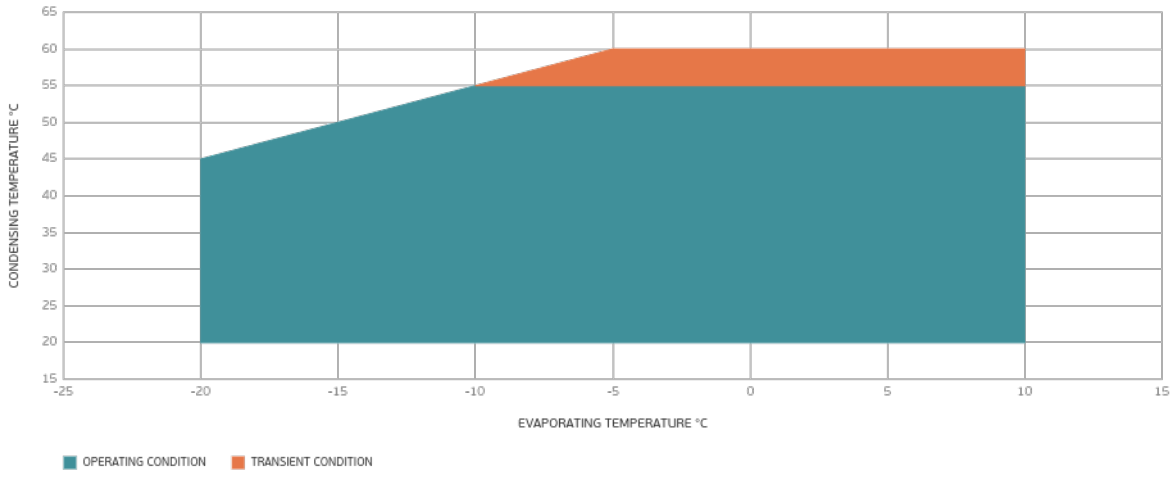
Test Condition: ASHRAEMB46, Fan/NotControlled/200, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

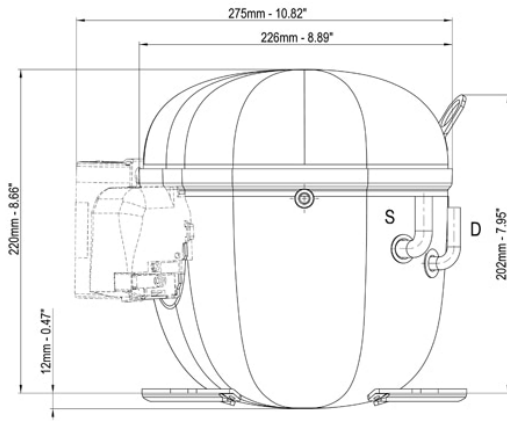
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-20	673	556	18.13	1.21
-15	837	624	22.69	1.34
-10	1044	695	28.53	1.5
-5	1296	768	35.75	1.69
0	1593	845	44.46	1.89
5	1937	923	54.75	2.1
10	2328	1003	66.73	2.32

Test Condition: ASHRAEMB46, Fan/NotControlled/200, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data are an indication of performance based simulation.

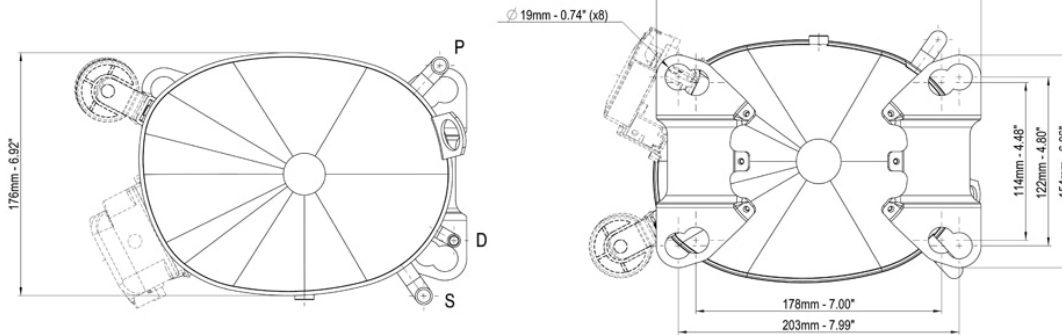
Operating Envelope



External Dimensions



	∅ mm	∅ in	Material
S - Suction	9.60	0.37	Cu
P - Process	6.42	0.25	Cu
D - Discharge	6.42	0.25	Cu



Wiring Diagram



Assembly Instructions

