



APPROVALS



 **ENGINEERING CODE**
959NA51

 **APPROVED REFRIGERANT**
R-404A

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

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
MBP

 **COOLING CAPACITY**
1048 W (MBP)

 **EFFICIENCY**
1.69 W/W (MBP)

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	12.11 cm ³
Compressor Cooling	Fan/NotControlled/220
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	220-240 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	14.26 Ω at 25° C
Run Winding Resistance	4.25 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	11.5 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
Motor Protection	T0743/G6
Starting Device	Relay MTRPH-0055-65*

External Characteristics

Base Plate		European	
Tray Holder		No	
Height		206 mm	
Connector	Internal Diameter		Shape
Suction	8.1 mm	Slanted 42°/Copper	
Discharge	6.1 mm	Straight/Copper	
Process	6.1 mm	Slanted 42°/Copper	

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
45.00°C	-10.00°C	1048 W	620 W	31.47 kg/h	1.69 W/W

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation -10.00°C, Condensing 45.00°C, Ambient 35°C , Liquid 45°C, Subcooling 0K. 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	826	470	21.40	1.76
-15	1020	519	26.66	1.96
-10	1245	570	32.83	2.18
-5	1503	622	40.03	2.41
0	1793	677	48.35	2.65
5	2115	734	57.92	2.88
10	2469	792	68.85	3.12

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. 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	689	497	20.31	1.39
-15	855	557	25.45	1.53
-10	1048	620	31.47	1.69
-5	1267	685	38.48	1.85
0	1512	753	46.60	2.01
5	1783	823	55.95	2.17
10	2081	897	66.62	2.32

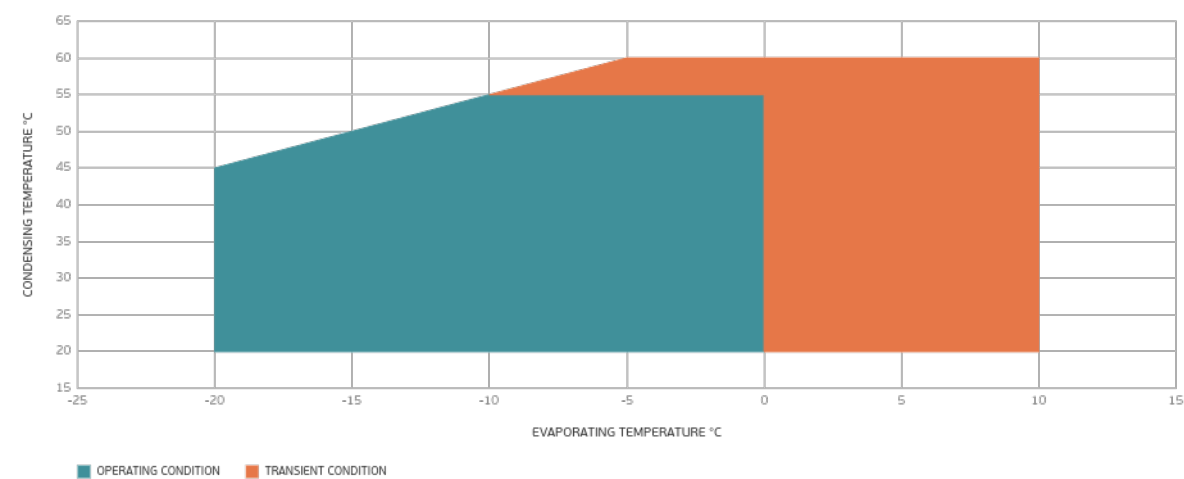
Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

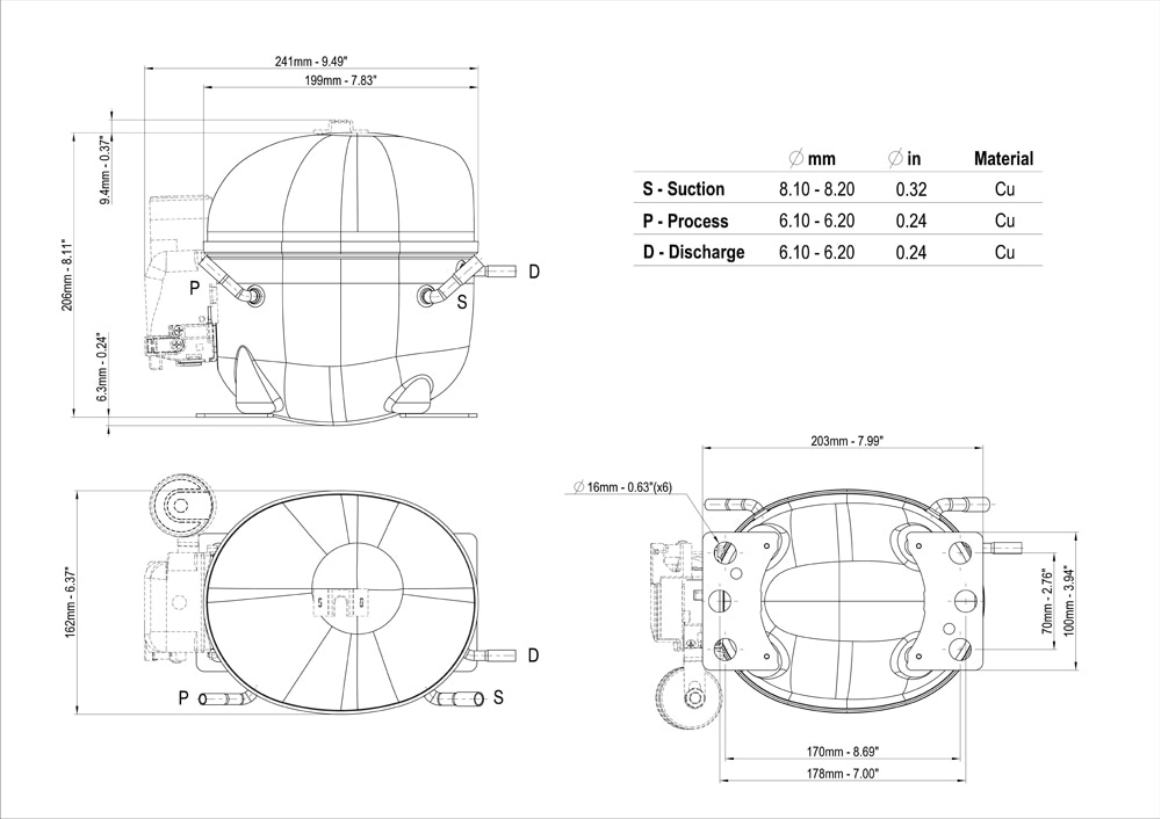
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	839	679	29.73	1.24
-5	1017	754	36.54	1.35
0	1215	832	44.43	1.46
5	1433	914	53.52	1.57
10	1672	999	63.91	1.67

Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

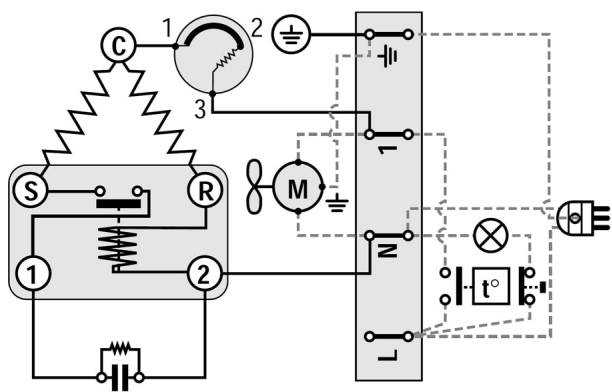
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

