



APPROVALS



 **ENGINEERING CODE**
861JA51

 **APPROVED REFRIGERANT**
R-290

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

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
MBP

 **COOLING CAPACITY**
548 W (MBP)

 **EFFICIENCY**
2 W/W (MBP)

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.28 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/3 hp
Max Condensing Pressure Operating	18.07 bar
Max Condensing Pressure Peak	20.17 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-20 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Without dry air charge
Weight	10 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Starting Device	Relay MTRPH-0025-59*
Start Capacitor	43-53 Uf/330 V
Motor Protection	T0866/G6

External Characteristics

Base Plate		European	
Tray Holder		No	
Height		188 mm	
Connector	Internal Diameter		Shape
Suction	8.1 mm	Vertical/Copper	
Discharge	6.1 mm	Vertical/Copper	
Process	6.1 mm	Vertical/Copper	

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
45.00°C	-10.00°C	548 W	275 W	6.74 kg/h	2 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	419	219	4.64	1.91
-15	522	236	5.82	2.22
-10	642	249	7.20	2.58
-5	781	260	8.80	3.01
0	938	266	10.64	3.52
5	1114	270	12.76	4.13
10	1310	269	15.16	4.86

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	355	231	4.32	1.54
-15	443	254	5.42	1.75
-10	548	275	6.74	2
-5	669	292	8.29	2.29
0	808	307	10.10	2.63
5	965	319	12.18	3.03
10	1142	327	14.56	3.49

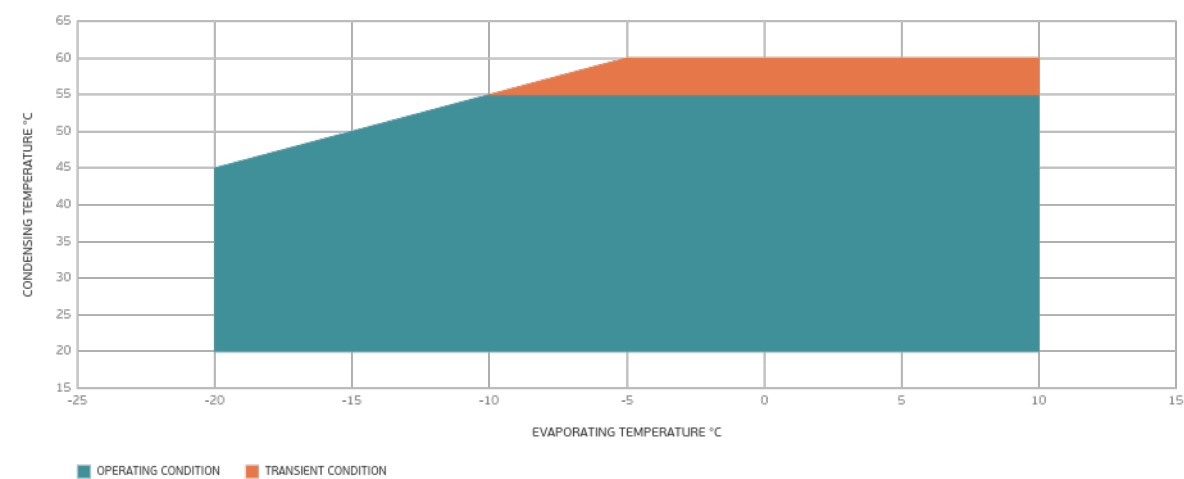
Test Condition: EN12900MBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

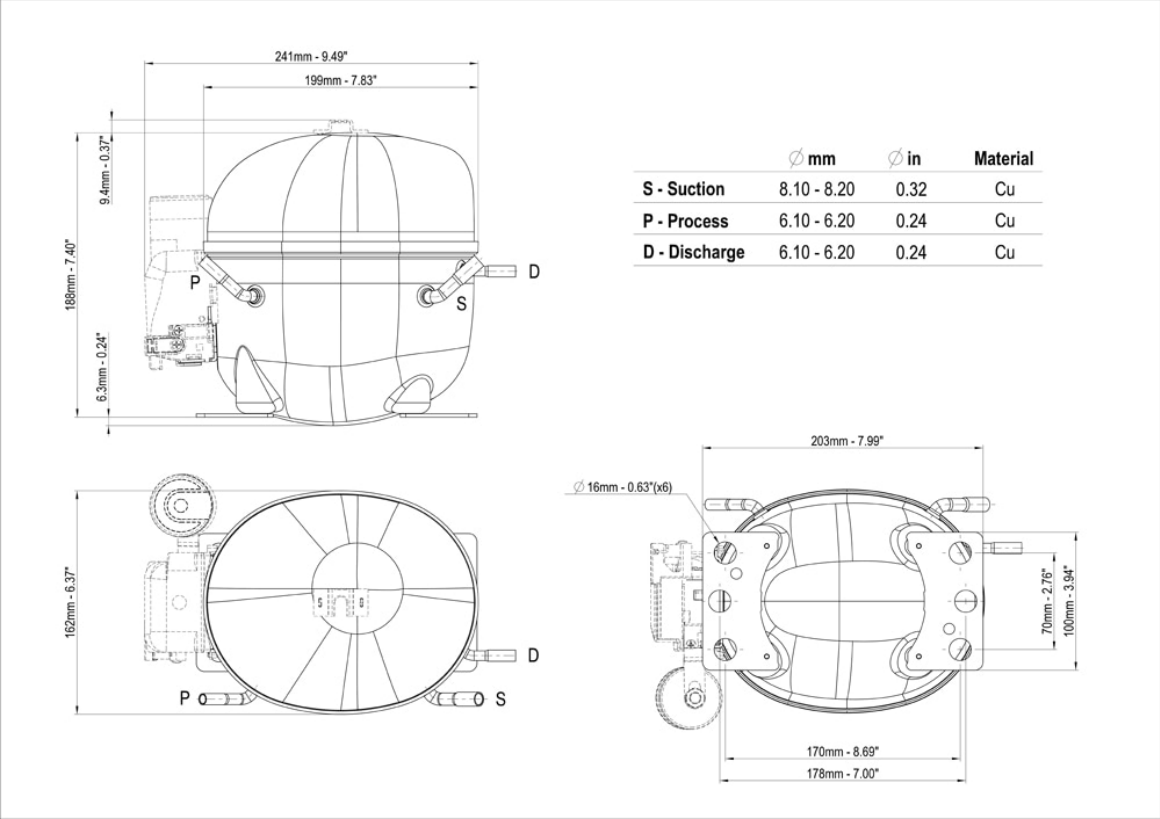
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-20	301	246	4.08	1.22
-15	373	274	5.09	1.36
-10	461	300	6.32	1.54
-5	564	323	7.80	1.75
0	683	343	9.54	1.99
5	819	361	11.57	2.27
10	974	376	13.91	2.59

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

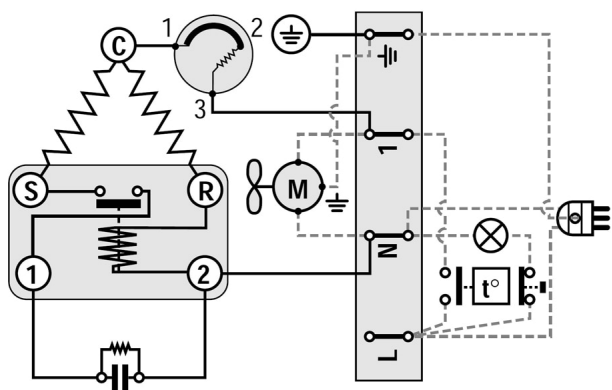
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

