



**APPROVALS**



**ENGINEERING CODE**  
862CG71

**APPROVED REFRIGERANT**  
R-290

**POWER SUPPLY**  
115 V 60 Hz

**STANDARD CONDITIONS**  
EN12900

**APPLICATION**  
MBP

**COOLING CAPACITY**  
704 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	8.77 cm <sup>3</sup>
Compressor Cooling	Fan/NotControlled/115
Fan Air Flow	520 m <sup>3</sup> /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	115 V 60 Hz
Evaporating Temperature Range	-20 °C to 10 °C

**Electrical Data**

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	6.1 Ω at 25° C
Run Winding Resistance	0.96 Ω at 25° C

## 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	10.6 Kg
Free Internal Volume	2.1 L

## Electrical Components

	Description
Start Capacitor	189-227 Uf / 250 V
Starting Device	Relay   MTRPH-64*
Motor Protection	T0828/J5

## External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	200 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.45 mm	Straight/Copper
Process	6.45 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	704 W	417 W	8.66 kg/h	1.69 W/W

Test Condition: EN12900MBP, Fan/NotControlled/115, 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	525	331	5.82	1.58
-15	654	356	7.28	1.83
-10	804	379	9.01	2.12
-5	977	399	11.01	2.45
0	1172	417	13.31	2.81
5	1391	432	15.92	3.22
10	1633	444	18.87	3.68

Test Condition: EN12900MBP, Fan/NotControlled/115, 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	455	354	5.54	1.28
-15	570	387	6.98	1.47
-10	704	417	8.66	1.69
-5	856	444	10.61	1.93
0	1028	469	12.84	2.19
5	1219	491	15.37	2.49
10	1431	509	18.22	2.81

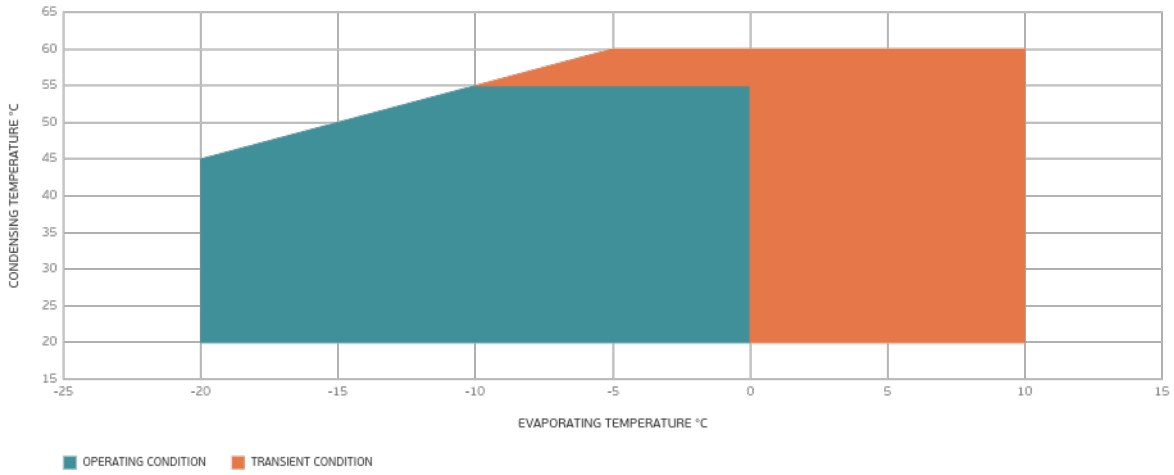
Test Condition: EN12900MBP, Fan/NotControlled/115, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

### Condensing Temperature 55°C

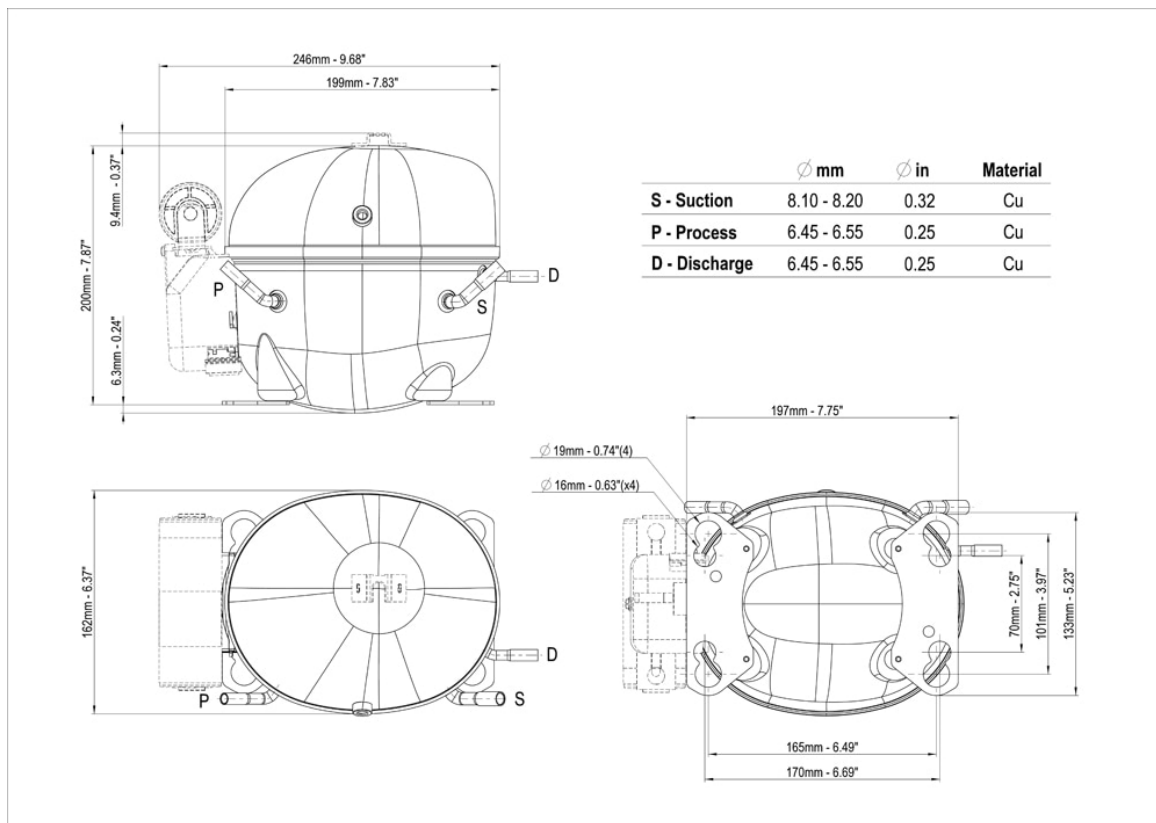
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	594	452	8.16	1.31
-5	726	488	10.06	1.49
0	875	521	12.22	1.68
5	1040	551	14.67	1.89
10	1222	578	17.43	2.12

Test Condition: EN12900MBP, Fan/NotControlled/115, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

## Operating Envelope

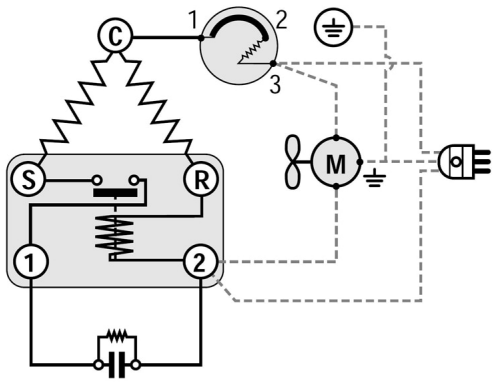


## External Dimensions



	mm	in	Material
<b>S - Suction</b>	8.10 - 8.20	0.32	Cu
<b>P - Process</b>	6.45 - 6.55	0.25	Cu
<b>D - Discharge</b>	6.45 - 6.55	0.25	Cu

## Wiring Diagram



## Assembly Instructions

