



APPROVALS



ENGINEERING CODE
862CG71

APPROVED REFRIGERANT
R-290

POWER SUPPLY
115 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
MBP

COOLING CAPACITY
772 W (MBP)

EFFICIENCY
1.62 W/W (MBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	8.77 cm ³
Compressor Cooling	Fan/NotControlled/115
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	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
54.40°C	-6.70°C	772 W	476 W	8.85 kg/h	1.62 W/W

Test Condition: ASHRAEMB46, Fan/NotControlled/115, 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	571	331	5.50	1.72
-15	711	357	6.87	1.99
-10	874	380	8.48	2.3
-5	1061	400	10.35	2.65
0	1272	418	12.48	3.04
5	1508	433	14.88	3.48
10	1769	445	17.58	3.97

Test Condition: ASHRAEMB46, Fan/NotControlled/115, 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	503	355	5.24	1.42
-15	630	387	6.58	1.63
-10	777	418	8.16	1.86
-5	945	445	9.97	2.12
0	1134	470	12.03	2.41
5	1345	492	14.36	2.73
10	1577	511	16.97	3.09

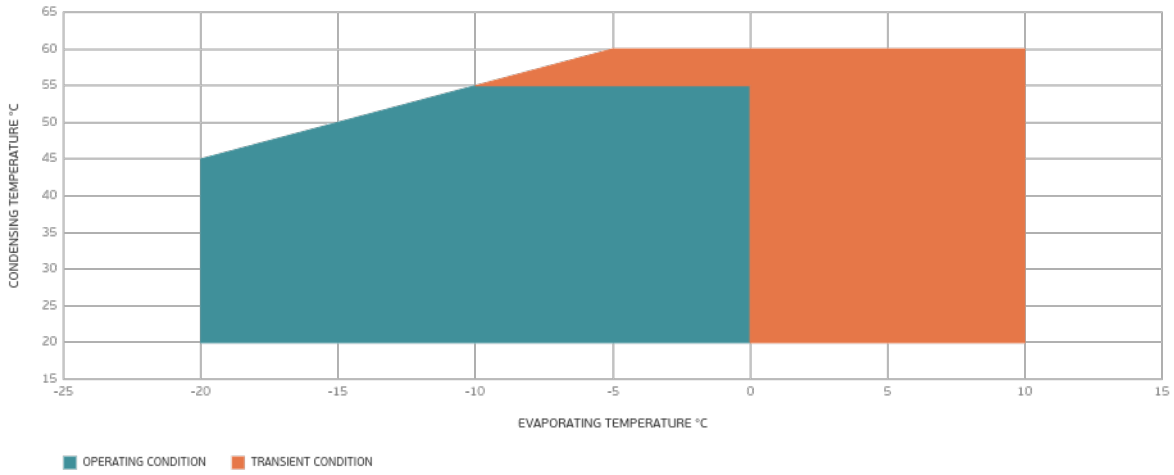
Test Condition: ASHRAEMB46, Fan/NotControlled/115, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

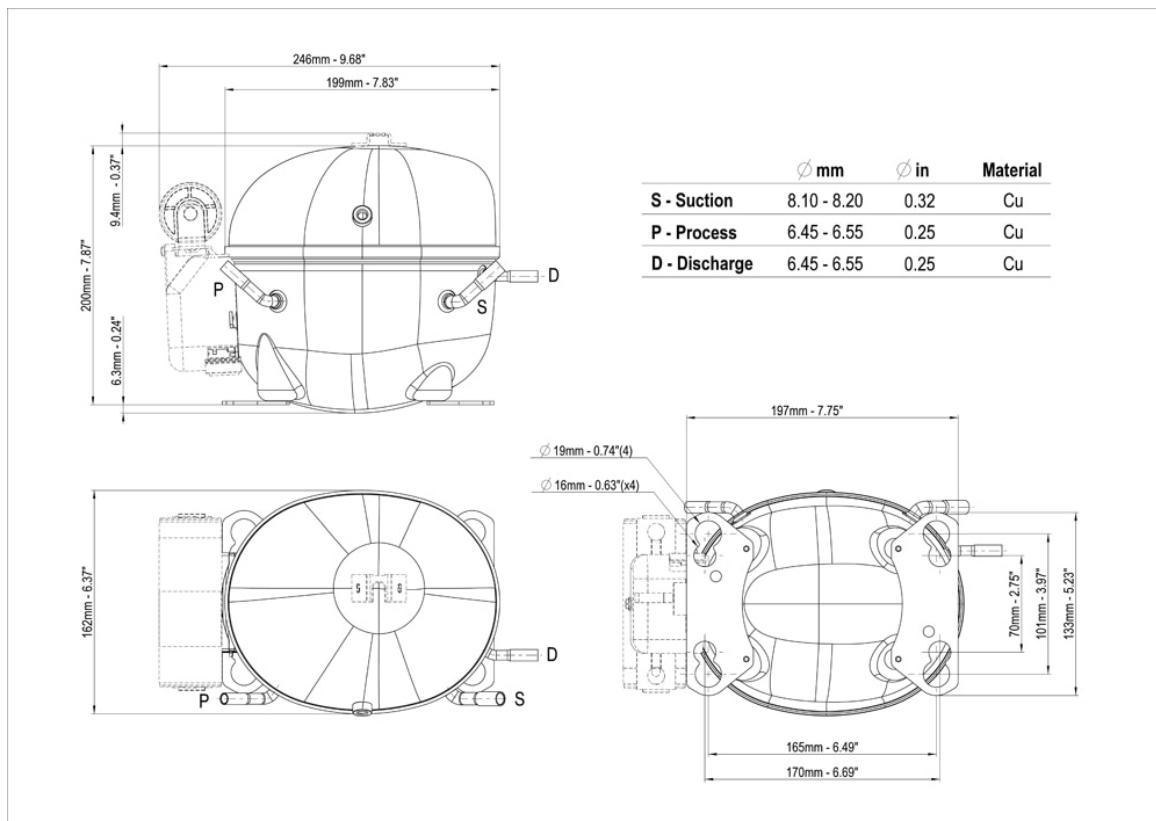
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	671	454	7.69	1.48
-5	820	490	9.45	1.67
0	987	524	11.46	1.89
5	1173	554	13.71	2.12
10	1379	581	16.24	2.37

Test Condition: ASHRAEMB46, Fan/NotControlled/115, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data are an indication of performance based simulation.

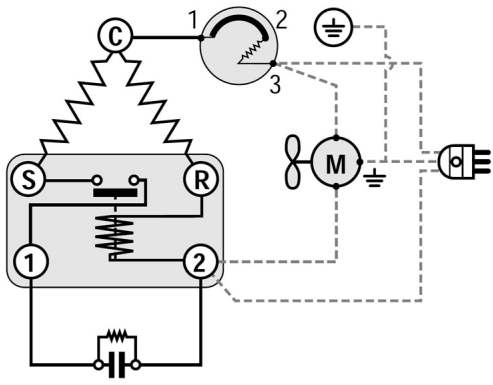
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

