

APPROVALS



 **ENGINEERING CODE**
862CA51

 **APPROVED REFRIGERANT**
R-290

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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
MBP

 **COOLING CAPACITY**
1176 W

 **EFFICIENCY**
2.58 W/W

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	8.77 cm ³
Compressor Cooling	Fan
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
Start Winding Resistance	34.8 Ω at 25° C
Run Winding Resistance	5.26 Ω at 25° C
Locked Rotor Amperage (LRA)	17 A

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	350 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Without dry air charge
Weight	10.8 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	53-64 7F / 330V
Starting Device	Current relay MTRP-0029-65
Motor Protection	External 3/4" T0964/G6

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	200 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°
Discharge	6.1 mm	Straight
Process	6.1 mm	Slanted 42°

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	1176 W	455 W	2.73 A	13.74 kg/h	2.58 W/W

Test Condition: ASHRAE, Fan, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C, Liquid 46.1°C. Data in accordance to ASHRAE guideline polynomial curve.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	550	270	2.05	5.30	2.04
-15	657	290	2.12	6.36	2.27
-10	794	306	2.18	7.70	2.59
-5	960	320	2.23	9.36	3
0	1155	331	2.27	11.32	3.49
5	1379	340	2.31	13.61	4.06
10	1633	345	2.34	16.24	4.73

Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-20	474	287	2.09	4.94	1.65
-15	574	315	2.19	6.01	1.82
-10	700	340	2.28	7.35	2.06
-5	850	362	2.36	8.97	2.35
0	1025	381	2.43	10.88	2.69
5	1225	397	2.5	13.09	3.09
10	1450	410	2.56	15.62	3.54

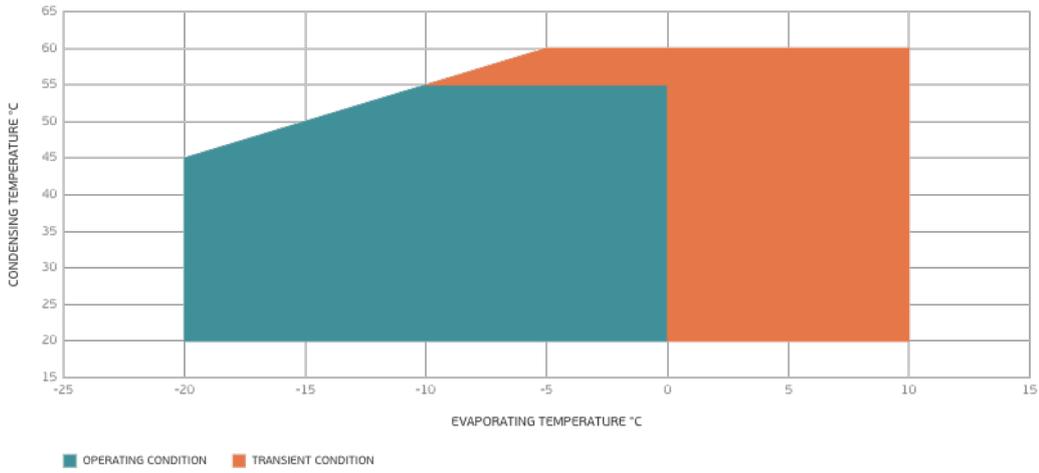
Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

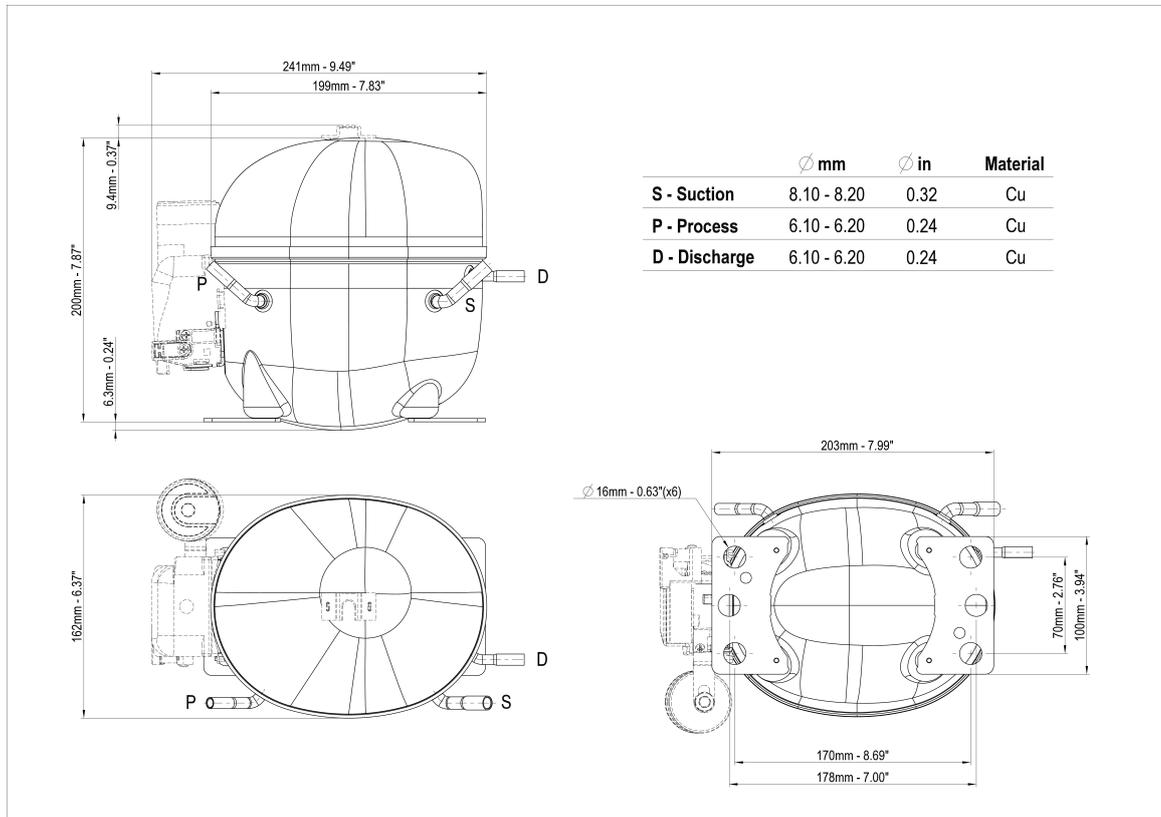
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	611	367	2.38	7.01	1.66
-5	748	398	2.49	8.62	1.88
0	905	425	2.6	10.51	2.13
5	1083	449	2.7	12.67	2.41
10	1281	469	2.79	15.12	2.73

Test Condition: ASHRAE, Fan, MBP. Data in accordance to ASHRAE guideline polynomial curve.

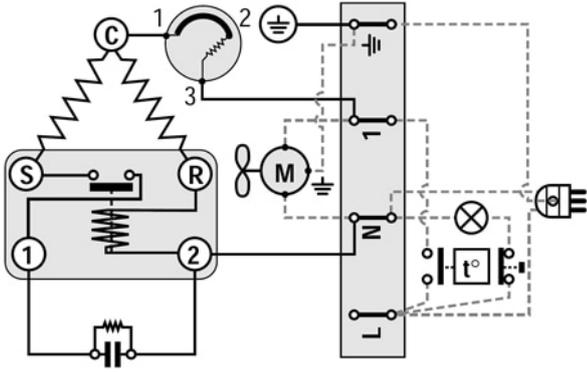
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

