



APPROVALS



ENGINEERING CODE
269AA51

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
HBP

COOLING CAPACITY
1323 W

EFFICIENCY
2.12 W/W

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	14.28 cm ³
Compressor Cooling	Fan
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	27.95 Ω at 25° C
Run Winding Resistance	5.11 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	11.3 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	72-88 7F / 330V
Starting Device	Current relay MTRP-0012-65
Motor Protection	External 3/4" T0741/G6

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	206 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	1324 W	624 W	3.76 A	29.28 kg/h	2.12 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
-15	651	351	2.88	12.02	1.86
-10	812	380	2.96	15.03	2.13
-5	1011	415	3.06	18.79	2.44
0	1249	455	3.18	23.32	2.75
5	1527	499	3.32	28.65	3.06
10	1843	549	3.5	34.81	3.36

Test Condition: ASHRAE, Fan, HBP. 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
-15	583	374	2.92	11.63	1.56
-10	727	413	3.03	14.55	1.76
-5	906	455	3.16	18.19	1.99
0	1119	500	3.31	22.58	2.24
5	1366	548	3.48	27.74	2.49
10	1649	600	3.69	33.70	2.75

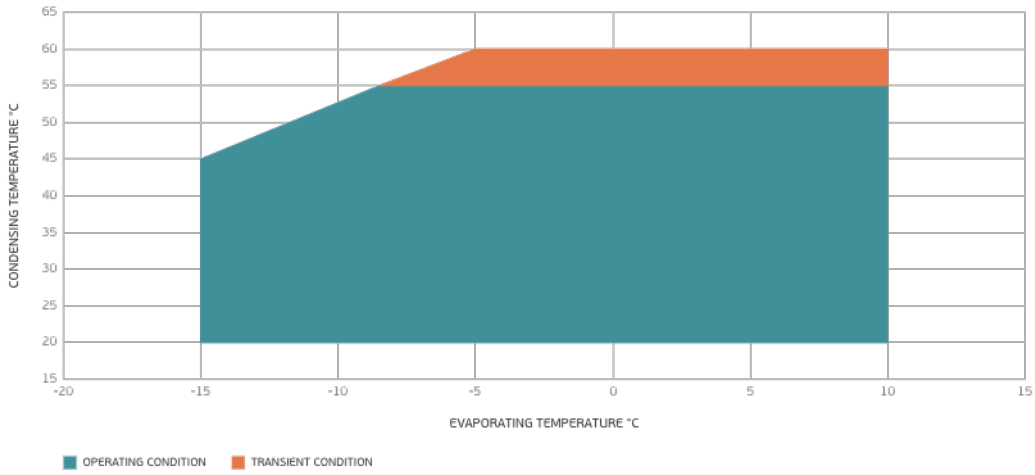
Test Condition: ASHRAE, Fan, HBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

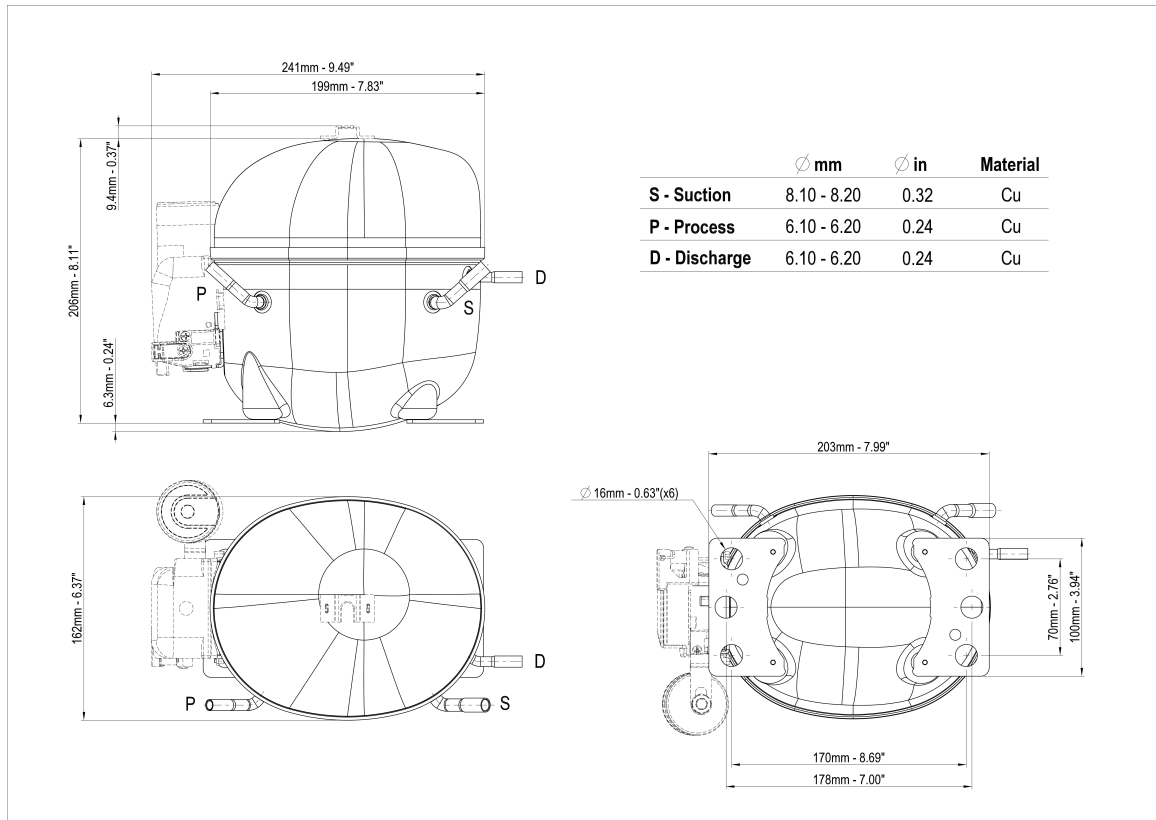
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	625	438	3.12	13.66	1.43
-5	788	491	3.28	17.29	1.61
0	981	545	3.47	21.63	1.8
5	1205	602	3.67	26.73	2
10	1459	660	3.91	32.59	2.21

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

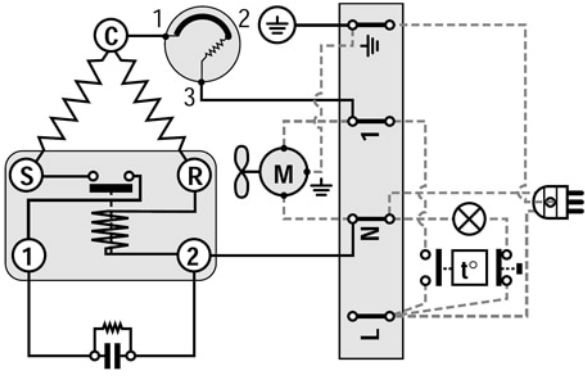
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

