

APPROVALS



**ENGINEERING CODE**  
268BA51

**APPROVED REFRIGERANT**  
R-134a

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

**STANDARD CONDITIONS**  
ASHRAE

**APPLICATION**  
HBP

**COOLING CAPACITY**  
1150 W

**EFFICIENCY**  
2.33 W/W

**MOTOR TYPE**  
CSIR

**STARTING TORQUE**  
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	12.11 cm <sup>3</sup>
Compressor Cooling	Fan
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	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	31.7 Ω at 25° C
Run Winding Resistance	5.18 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	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" T0660/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	1150 W	494 W	2.85 A	25.44 kg/h	2.33 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	590	269	2.02	10.91	2.19
-10	719	299	2.14	13.32	2.41
-5	886	329	2.24	16.45	2.7
0	1089	359	2.32	20.33	3.04
5	1330	389	2.4	24.96	3.42
10	1608	421	2.47	30.38	3.82

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	498	287	2.1	9.93	1.73
-10	632	325	2.22	12.67	1.95
-5	794	362	2.34	15.97	2.2
0	984	399	2.46	19.87	2.47
5	1201	436	2.59	24.38	2.76
10	1445	473	2.72	29.53	3.05

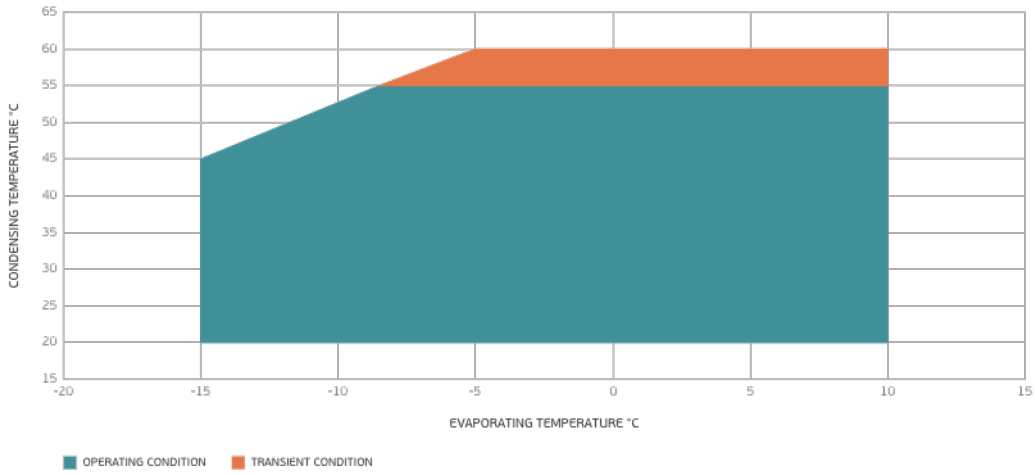
Test Condition: ASHRAE, Fan, HBP. Data in accordance to ASHRAE guideline polynomial curve.

### Condensing Temperature 55°C

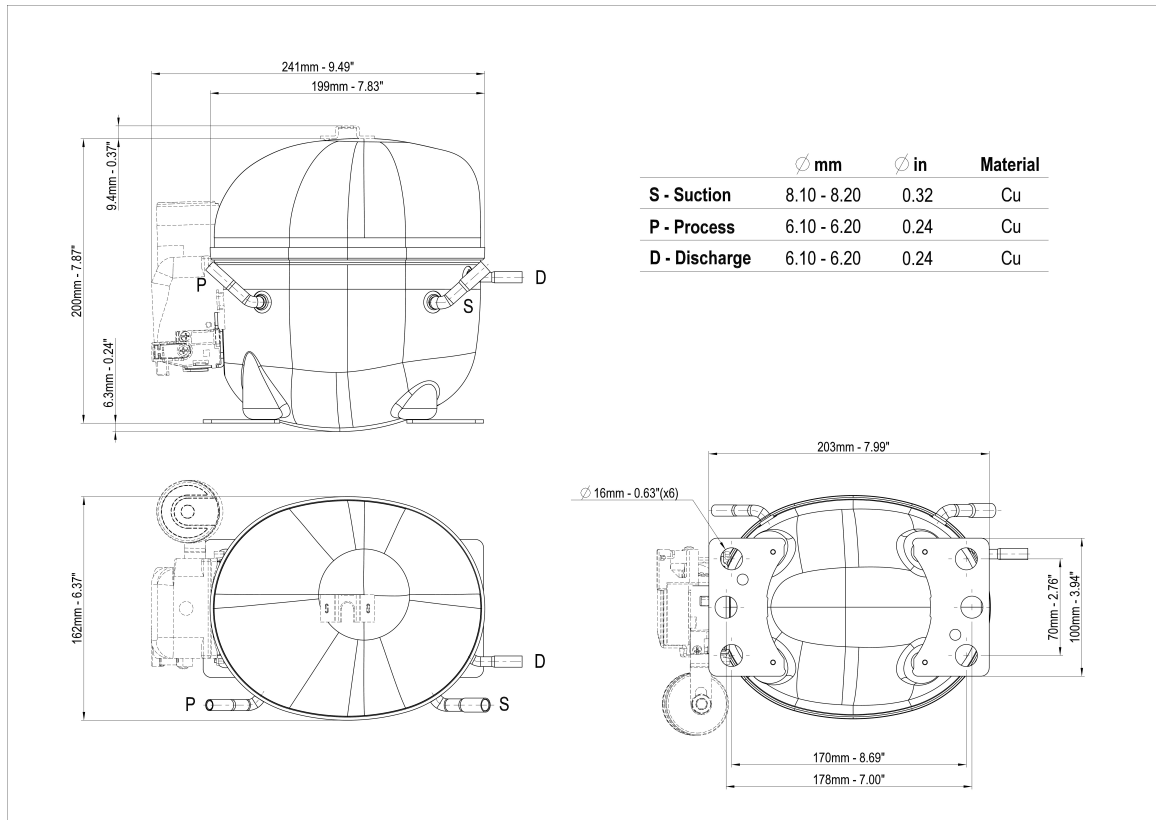
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	535	340	2.3	11.68	1.57
-5	689	387	2.44	15.10	1.78
0	861	432	2.6	18.96	1.99
5	1050	477	2.78	23.29	2.2
10	1258	521	2.97	28.10	2.41

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

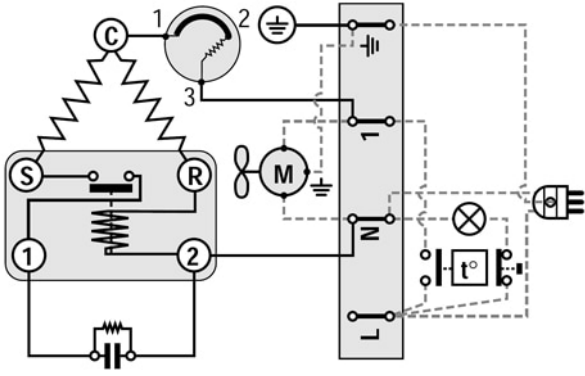
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

