

**APPROVALS**



**ENGINEERING CODE**  
267BB51

**APPROVED REFRIGERANT**  
R-134a

**POWER SUPPLY**  
208-230 V 60 Hz

**STANDARD CONDITIONS**  
ASHRAE

**APPLICATION**  
HBP

**COOLING CAPACITY**  
845 W (HBP)

**EFFICIENCY**  
2.43 W/W (HBP)

**MOTOR TYPE**  
CSIR

**STARTING TORQUE**  
HST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.28 cm <sup>3</sup>
Compressor Cooling	Fan/NotControlled/208
Fan Air Flow	520 m <sup>3</sup> /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/4 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	200-230 V 50 Hz / 208-230 V 60 Hz
Evaporating Temperature Range	-15 °C to 10 °C

**Electrical Data**

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	20.12 Ω at 25° C
Run Winding Resistance	5.3 Ω at 25° C

## Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	10.4 Kg
Free Internal Volume	2.1 L

## Electrical Components

	Description
Start Capacitor	53-64 Uf / 330 V
Starting Device	Relay   MTRP-41*
Motor Protection	MRP40AMK-3259

## External Characteristics

Base Plate	European	
Tray Holder	No	
Height	188 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.1 mm	Straight/Copper
Process	6.1 mm	Slanted 42°/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	846 W	348 W	2.13 A	18.72 kg/h	2.43 W/W

Test Condition: ASHRAE HBP46, Fan/NotControlled/208, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C, Liquid 46.1°C, Subcooling 8.3K. Data in accordance to EN

12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

## 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	407	196	1.54	7.51	2.07
-10	516	215	1.61	9.55	2.4
-5	645	234	1.68	12.00	2.76
0	799	252	1.75	14.92	3.17
5	980	270	1.82	18.39	3.63
10	1190	287	1.9	22.47	4.15

Test Condition: ASHRAEHBP46, Fan/NotControlled/208, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-15	356	205	1.57	7.10	1.73
-10	455	230	1.66	9.10	1.98
-5	573	255	1.76	11.51	2.25
0	713	280	1.85	14.39	2.54
5	876	305	1.95	17.80	2.87
10	1066	329	2.05	21.80	3.24

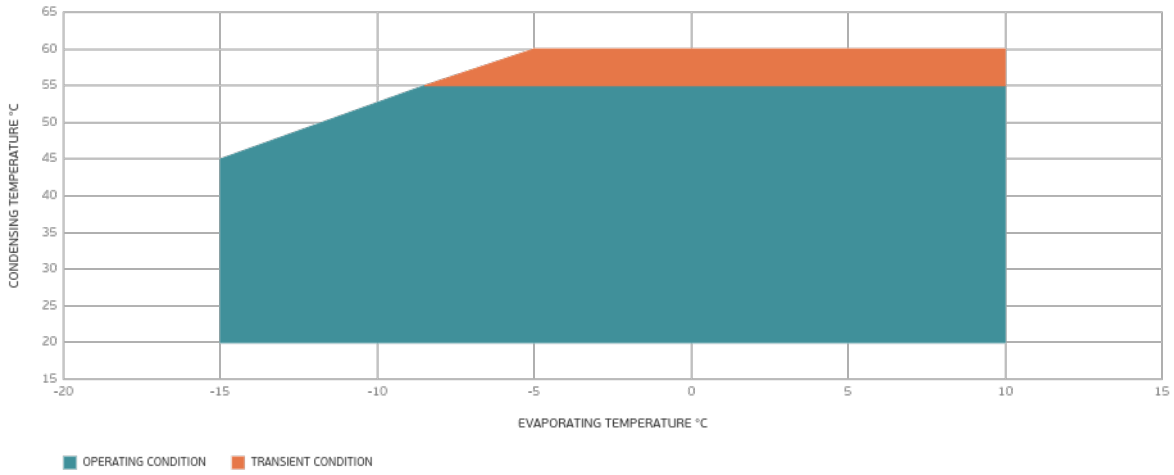
Test Condition: ASHRAEHBP46, Fan/NotControlled/208, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

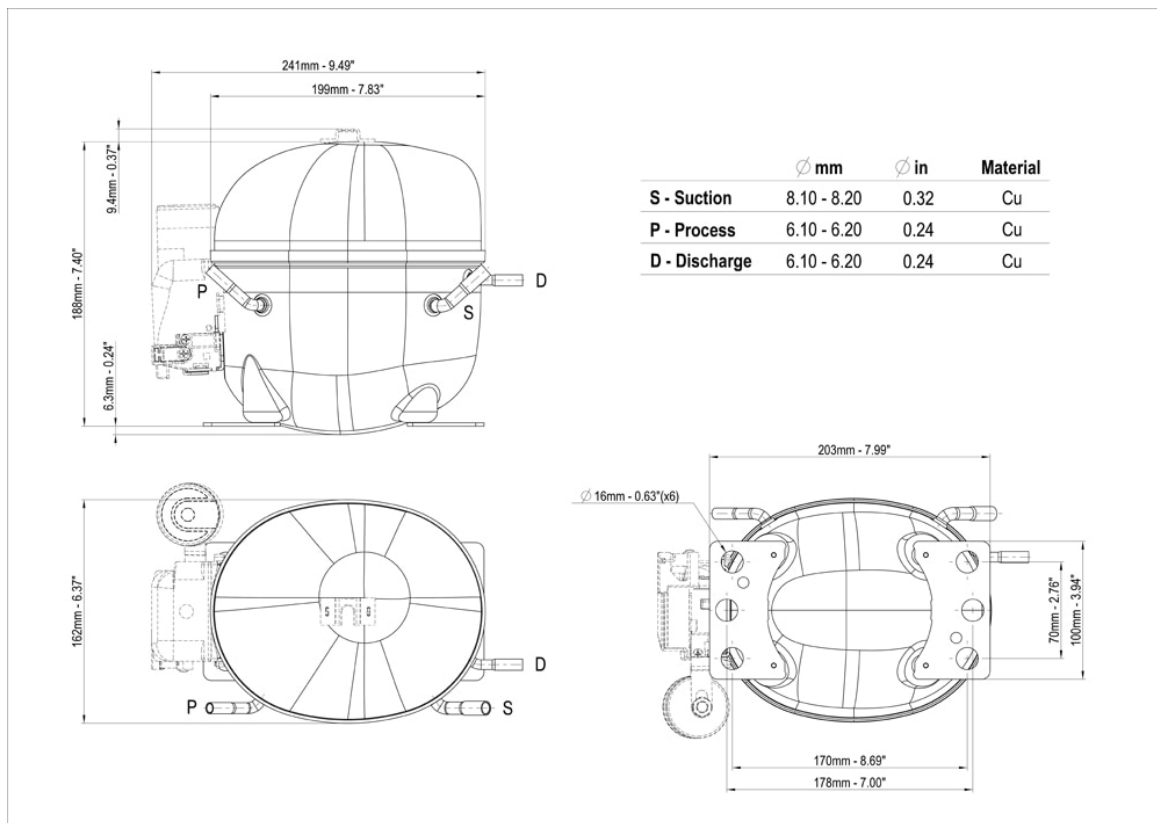
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	389	246	1.72	8.49	1.58
-5	496	276	1.83	10.86	1.8
0	621	306	1.95	13.68	2.03
5	768	335	2.08	17.03	2.29
10	938	365	2.21	20.96	2.57

Test Condition: ASHRAEHBP46, Fan/NotControlled/208, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

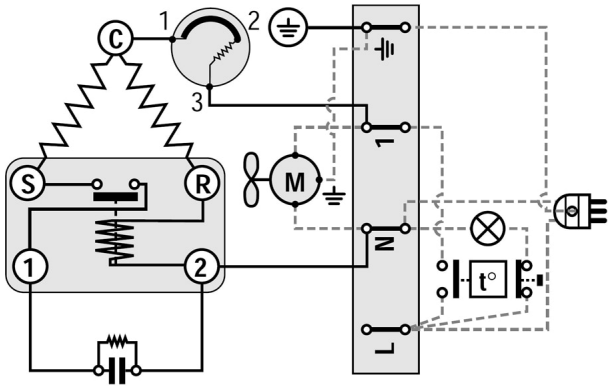
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

