



**APPROVALS**



**ENGINEERING CODE**  
268IB92

**APPROVED REFRIGERANT**  
R-134a

**POWER SUPPLY**  
200-230 V 50 Hz

**STANDARD CONDITIONS**  
ASHRAE

**APPLICATION**  
HBP

**COOLING CAPACITY**  
1019 W (HBP)

**EFFICIENCY**  
2.47 W/W (HBP)

**MOTOR TYPE**  
CSIR

**STARTING TORQUE**  
HST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	9.99 cm <sup>3</sup>
Compressor Cooling	Fan/NotControlled/230
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	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	28.84 Ω at 25° C
Run Winding Resistance	6.67 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	10.52 Kg
Free Internal Volume	2.1 L

## Electrical Components

	Description
Start Capacitor	53-64 Uf / 330 V
Starting Device	Relay   MTRP-46*
Motor Protection	MRA38175-3265

## 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	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	1019 W	412 W	2.63 A	22.57 kg/h	2.47 W/W

Test Condition: ASHRAEHBP46, Fan/NotControlled/230, 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	490	223	1.76	9.04	2.2
-10	625	246	1.85	11.58	2.54
-5	782	271	1.97	14.54	2.89
0	964	296	2.11	18.00	3.26
5	1174	322	2.26	22.03	3.64
10	1413	350	2.44	26.69	4.04

Test Condition: ASHRAEHBP46, Fan/NotControlled/230, 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	423	236	1.8	8.44	1.79
-10	545	266	1.92	10.90	2.05
-5	688	297	2.06	13.82	2.32
0	855	328	2.22	17.27	2.61
5	1049	361	2.4	21.31	2.91
10	1272	394	2.6	26.00	3.22

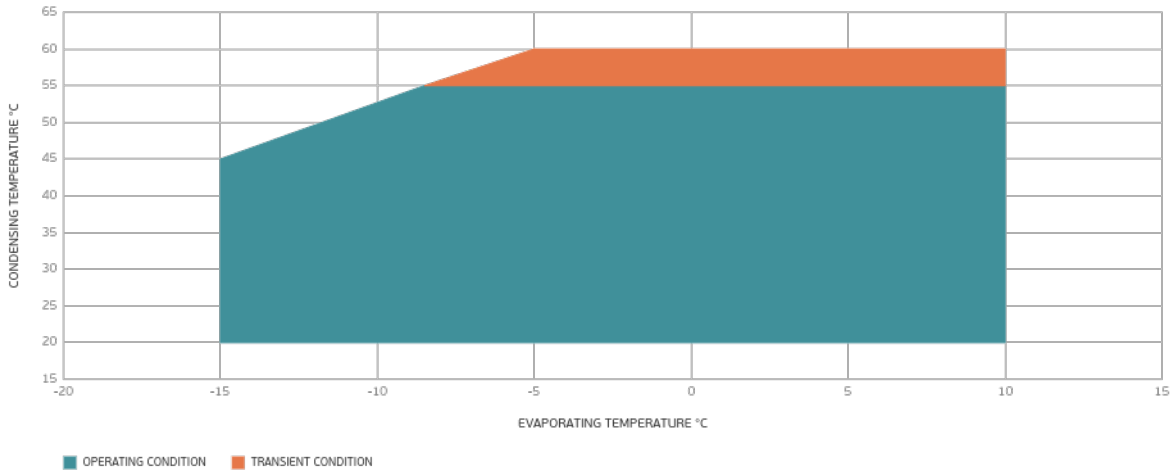
Test Condition: ASHRAEHBP46, Fan/NotControlled/230, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

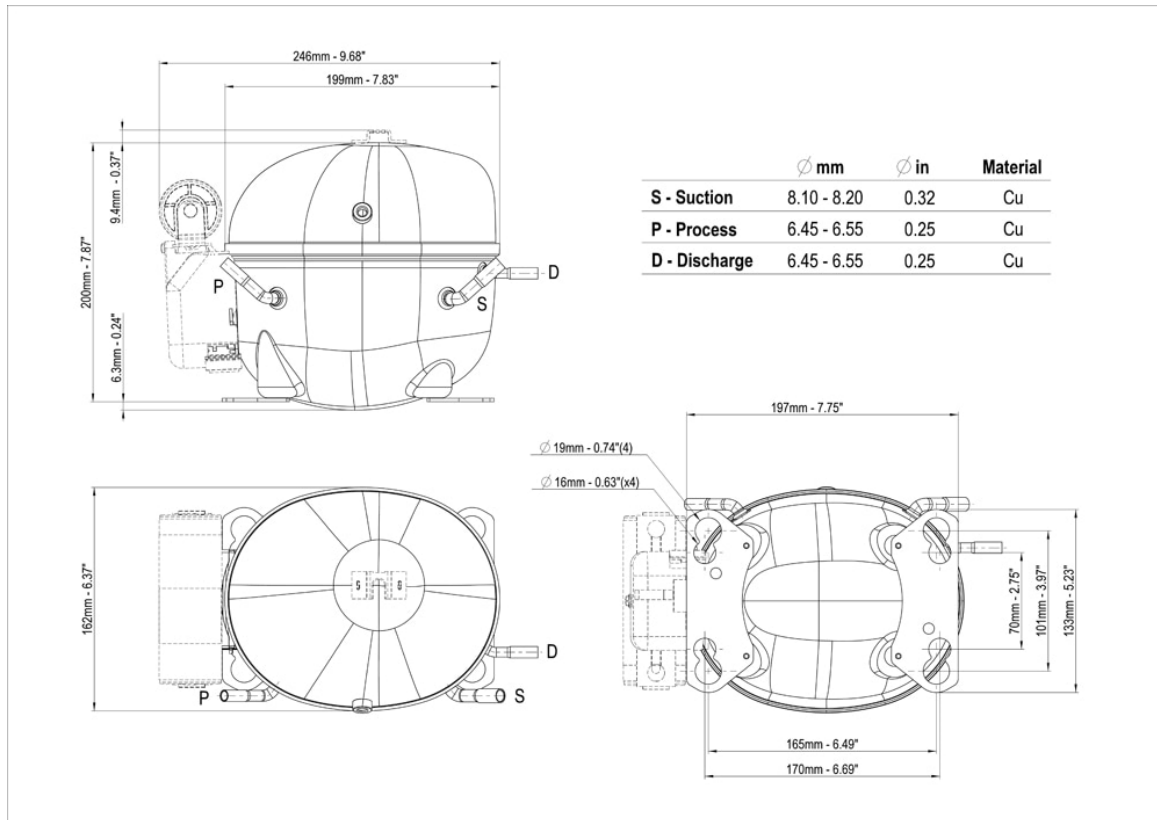
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	474	286	1.99	10.33	1.65
-5	601	322	2.15	13.17	1.86
0	751	359	2.33	16.56	2.09
5	927	397	2.54	20.57	2.34
10	1131	436	2.77	25.26	2.59

Test Condition: ASHRAEHBP46, Fan/NotControlled/230, 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.

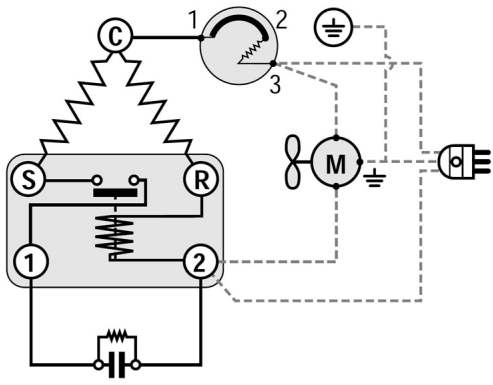
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

