



**APPROVALS**




 **ENGINEERING CODE**  
144HD11


 **APPROVED REFRIGERANT**  
R-134a


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

 **STANDARD CONDITIONS**  
ASHRAE

 **APPLICATION**  
HBP

 **COOLING CAPACITY**  
2649 W (HBP)

 **EFFICIENCY**  
2.21 W/W (HBP)

 **MOTOR TYPE**  
CSIR

 **STARTING TORQUE**  
HST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	26.11 cm <sup>3</sup>
Compressor Cooling	Fan/NotControlled/208
Fan Air Flow	800 m <sup>3</sup> /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	208-230 V 60 Hz
Evaporating Temperature Range	-15 °C to 10 °C

**Electrical Data**

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	8.09 Ω at 25° C
Run Winding Resistance	1.45 Ω at 25° C

## Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	750 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	20.2 Kg
Free Internal Volume	3.9 L

## Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
CSR / CSIR Box	YES
Starting Device	RVA4L3C-566
Motor Protection	MST16AFN T0820/20

## External Characteristics

Base Plate	Large	
Tray Holder	No	
Height	265 mm	
Connector	Internal Diameter	Shape
Suction	9.6 mm	Vertical/Copper
Discharge	8 mm	Slanted J/Copper
Process	6.42 mm	Vertical/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	2649 W	1196 W	7.47 A	58.67 kg/h	2.21 W/W

Test Condition: ASHRAEHBP46, 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	1234	635	5.5	22.77	1.94
-10	1650	727	5.77	30.55	2.27
-5	2125	816	6.06	39.49	2.6
0	2660	905	6.37	49.67	2.94
5	3257	993	6.69	61.15	3.28
10	3917	1081	7.03	74.00	3.63

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	962	624	5.48	19.20	1.54
-10	1335	739	5.82	26.70	1.81
-5	1767	853	6.18	35.48	2.07
0	2260	967	6.58	45.61	2.34
5	2815	1082	7	57.16	2.6
10	3432	1198	7.46	70.19	2.86

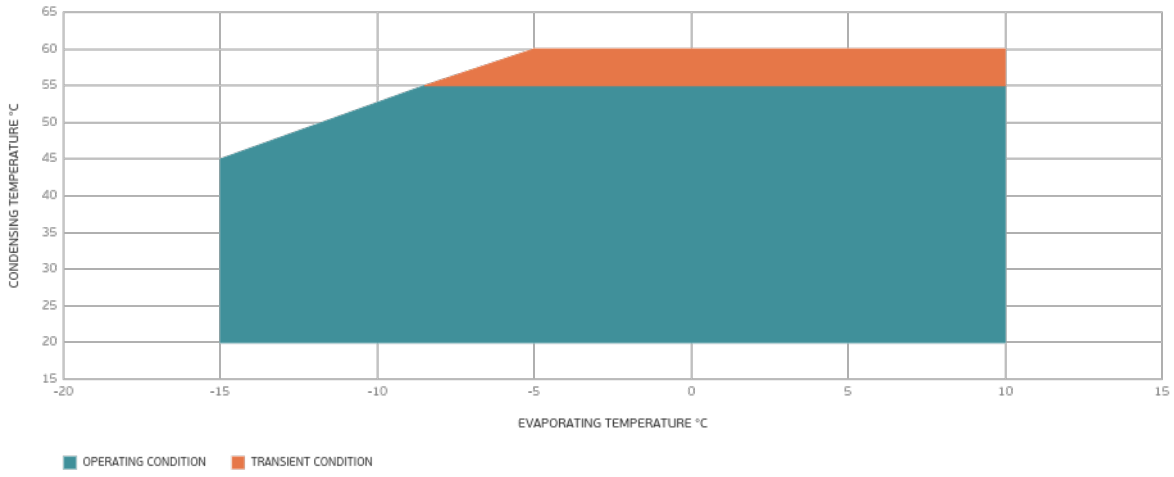
Test Condition: ASHRAEHBP46, Fan/NotControlled/208, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

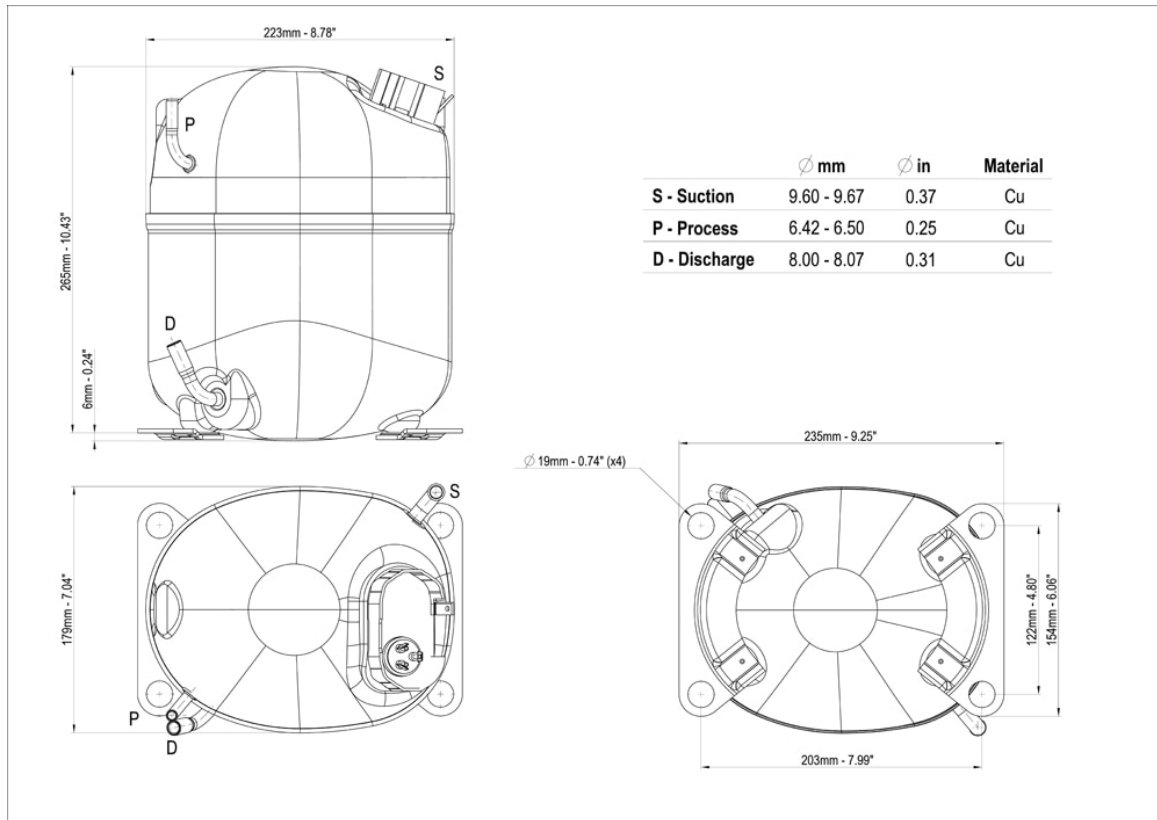
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	1058	740	5.8	23.08	1.43
-5	1439	871	6.23	31.54	1.65
0	1882	1003	6.71	41.47	1.87
5	2386	1138	7.24	52.93	2.1
10	2953	1275	7.81	65.98	2.32

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.

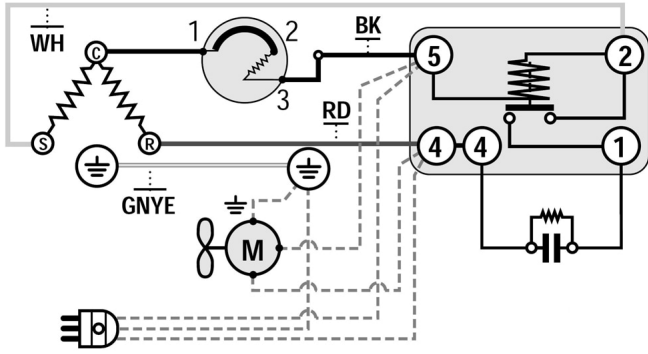
## Operating Envelope



## External Dimensions



## Wiring Diagram



## Assembly Instructions

