

APPROVALS



ENGINEERING CODE
144HG11

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
115 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
HBP

COOLING CAPACITY
2999 W (HBP)

EFFICIENCY
2.42 W/W (HBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	26.11 cm ³
Compressor Cooling	Fan/NotControlled/115
Fan Air Flow	800 m ³ /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	115 V 60 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	3.06 Ω at 25° C
Run Winding Resistance	0.46 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	19.8 Kg
Free Internal Volume	3.9 L

Electrical Components

	Description
CSR / CSIR Box	YES
Start Capacitor	340-408 Uf / 165 V
Starting Device	RVA7AC3C-115
Motor Protection	CRA39009-3031

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	2999 W	1241 W	13.3 A	66.41 kg/h	2.42 W/W

Test Condition: ASHRAEHBP46, Fan/NotControlled/115, 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	1279	724	10.35	23.60	1.77
-10	1660	798	10.65	30.75	2.08
-5	2130	864	10.97	39.59	2.46
0	2697	924	11.3	50.34	2.92
5	3371	978	11.64	63.26	3.45
10	4159	1027	12.01	78.58	4.05

Test Condition: ASHRAEHBP46, Fan/NotControlled/115, 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	1148	724	10.3	22.87	1.59
-10	1514	821	10.76	30.30	1.84
-5	1950	915	11.25	39.19	2.13
0	2466	1006	11.76	49.80	2.45
5	3071	1093	12.31	62.35	2.81
10	3772	1178	12.89	77.10	3.2

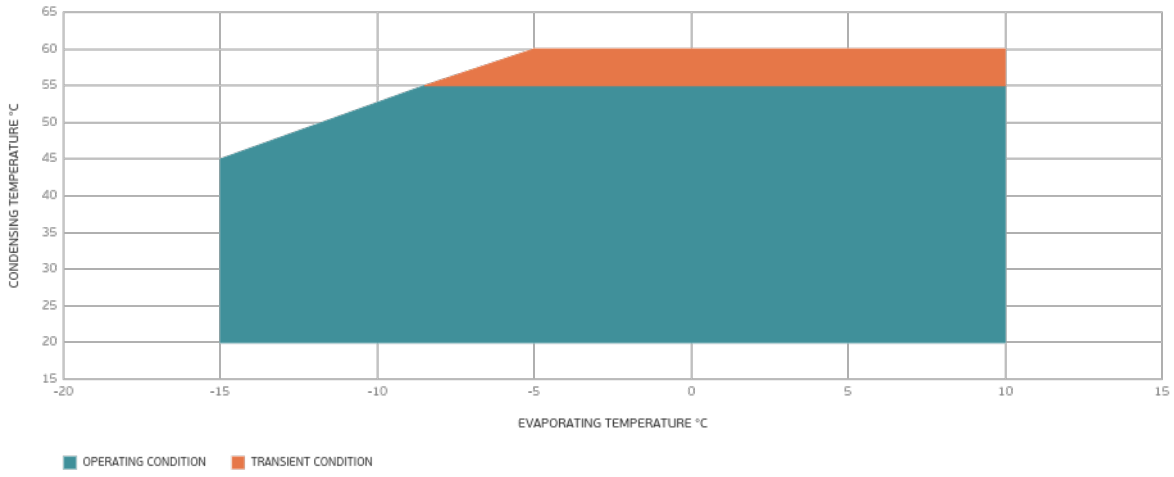
Test Condition: ASHRAEHBP46, Fan/NotControlled/115, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

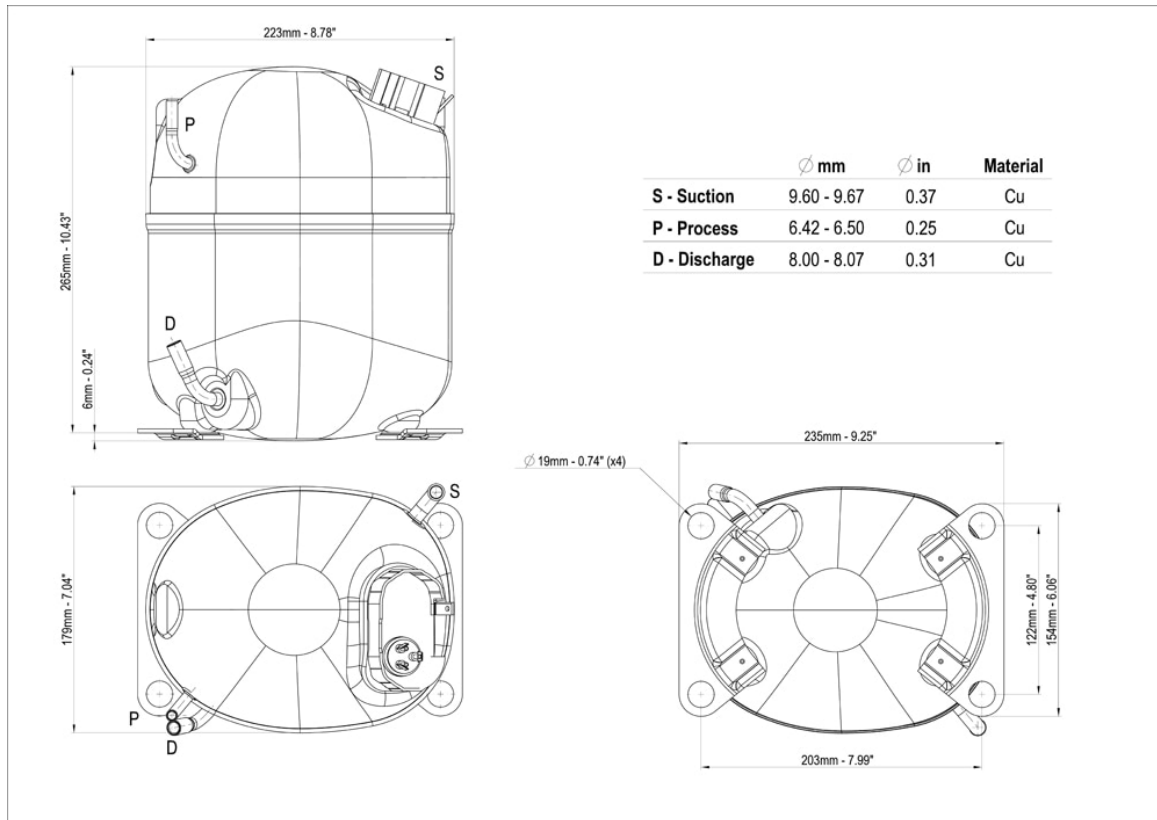
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	1282	853	10.87	27.97	1.5
-5	1695	968	11.54	37.14	1.75
0	2169	1082	12.25	47.80	2.01
5	2714	1196	13	60.21	2.27
10	3338	1311	13.8	74.59	2.55

Test Condition: ASHRAEHBP46, Fan/NotControlled/115, 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.

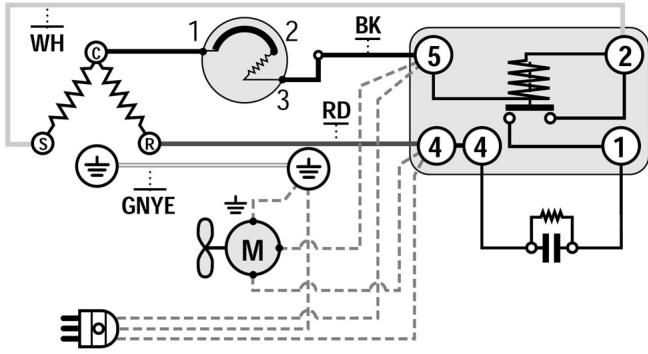
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

