

APPROVALS



ENGINEERING CODE
211AC06

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
HBP

COOLING CAPACITY
1623 W (HBP)

EFFICIENCY
2.31 W/W (HBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	17.39 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	220 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	19.25 Ω at 25° C
Run Winding Resistance	3 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	17 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
Start Capacitor	64-77 Uf / 330 V
Motor Protection	T0634/G6
Starting Device	Relay MTRP-0048*

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	207 mm	
Connector	Internal Diameter	Shape
Suction	9.6 mm	Slanted 42°/Copper
Discharge	6.42 mm	Straight/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	1623 W	704 W	4.4 A	35.95 kg/h	2.31 W/W

Test Condition: ASHRAEHBP46, Fan/NotControlled/220, 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	790	419	3.57	14.57	1.88
-10	1011	456	3.65	18.72	2.22
-5	1275	489	3.74	23.69	2.61
0	1584	520	3.83	29.57	3.05
5	1942	547	3.91	36.45	3.55
10	2351	571	4	44.41	4.12

Test Condition: ASHRAEHBP46, Fan/NotControlled/220, 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	674	442	3.62	13.43	1.53
-10	875	489	3.73	17.52	1.79
-5	1114	535	3.85	22.39	2.08
0	1393	579	3.98	28.13	2.4
5	1714	622	4.11	34.82	2.75
10	2081	664	4.24	42.54	3.13

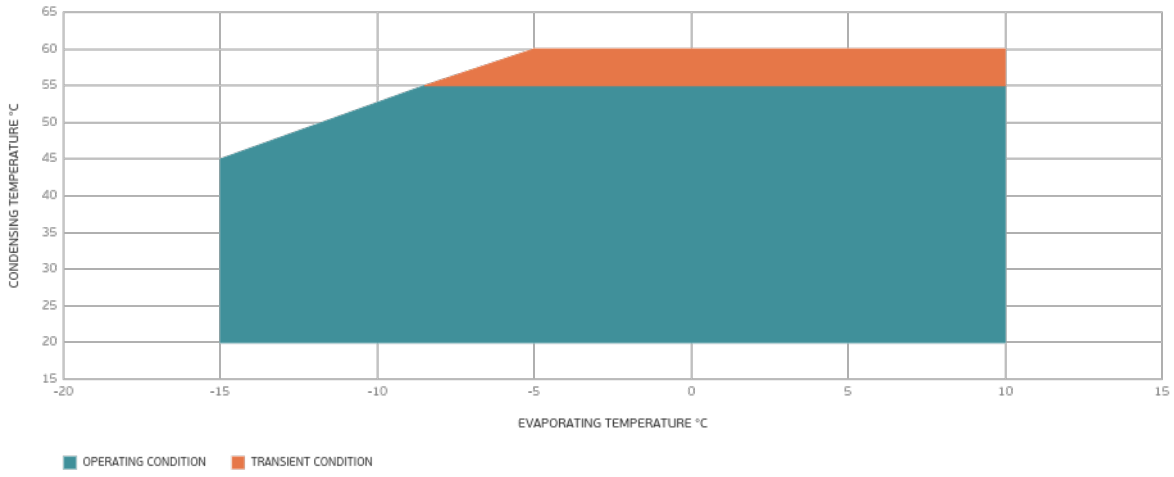
Test Condition: ASHRAEHBP46, Fan/NotControlled/220, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

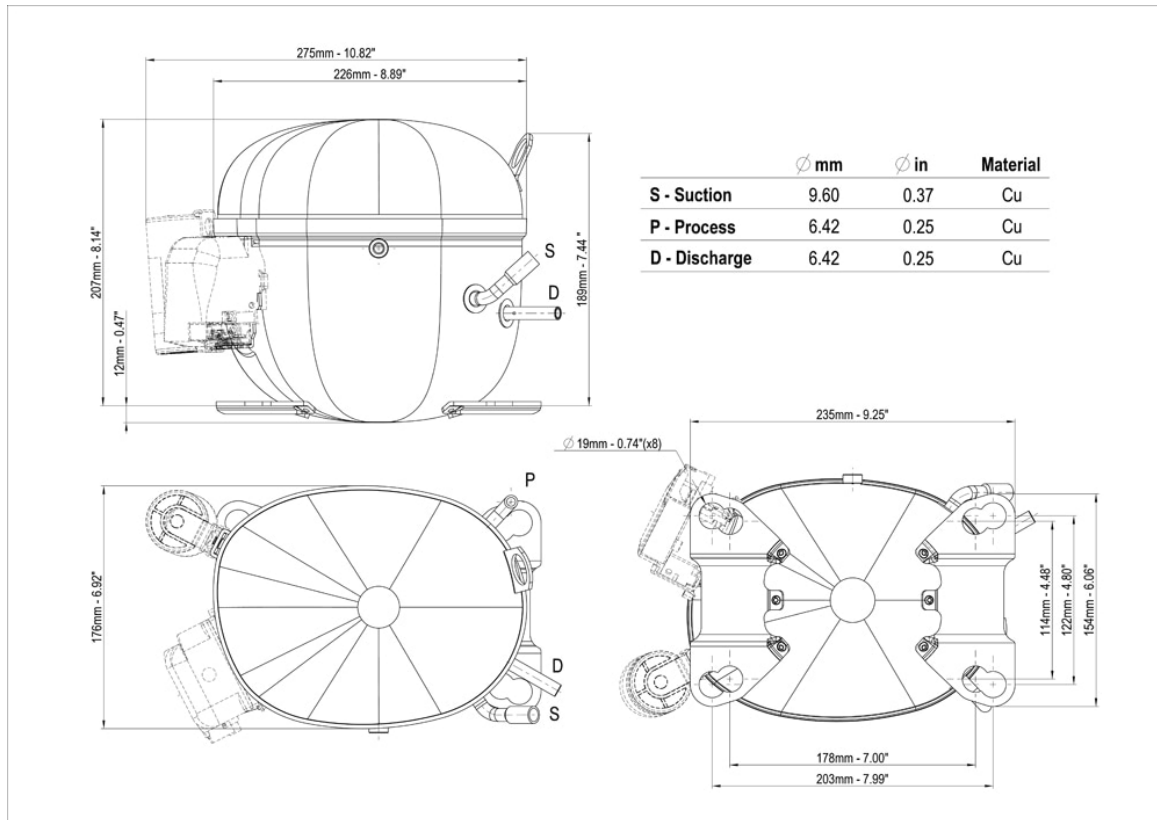
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	722	521	3.82	15.76	1.39
-5	937	575	3.97	20.53	1.63
0	1186	628	4.14	26.14	1.89
5	1472	683	4.33	32.65	2.16
10	1797	737	4.52	40.16	2.44

Test Condition: ASHRAEHBP46, Fan/NotControlled/220, 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.

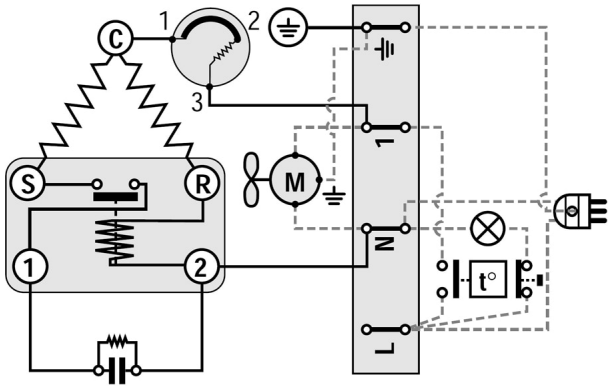
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

