



APPROVALS



ENGINEERING CODE
212AN06

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
200-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
HBP

COOLING CAPACITY
1403 W (HBP)

EFFICIENCY
2.37 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/200
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	200-240 V 50 Hz / 230 V 60 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	13.8 Ω at 25° C
Run Winding Resistance	2.7 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
Starting Device	Relay MTRP-46*
Motor Protection	T0540/G8

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	220 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
50.00°C	5.00°C	1403 W	591 W	3.66 A	35.31 kg/h	2.37 W/W

Test Condition: EN12900HBP, Fan/NotControlled/200, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C, Liquid 50°C, Subcooling 0K. 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	735	356	2.73	15.54	2.06
-10	929	394	2.86	19.76	2.36
-5	1168	428	2.98	24.97	2.73
0	1456	458	3.11	31.31	3.18
5	1796	485	3.23	38.92	3.7
10	2192	511	3.36	47.94	4.29

Test Condition: EN12900HBP, Fan/NotControlled/200, Return Gas 20°C, Ambient 35°C, Subcooling OK. 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	628	377	2.8	14.57	1.67
-10	792	424	2.97	18.47	1.87
-5	996	469	3.14	23.37	2.13
0	1245	513	3.33	29.39	2.43
5	1541	557	3.52	36.69	2.77
10	1888	600	3.72	45.40	3.15

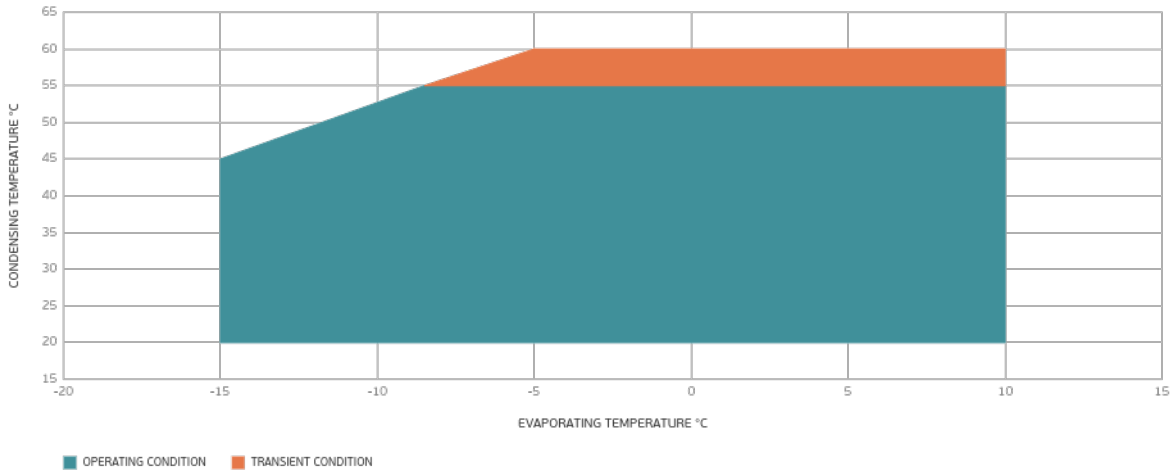
Test Condition: EN12900HBP, Fan/NotControlled/200, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

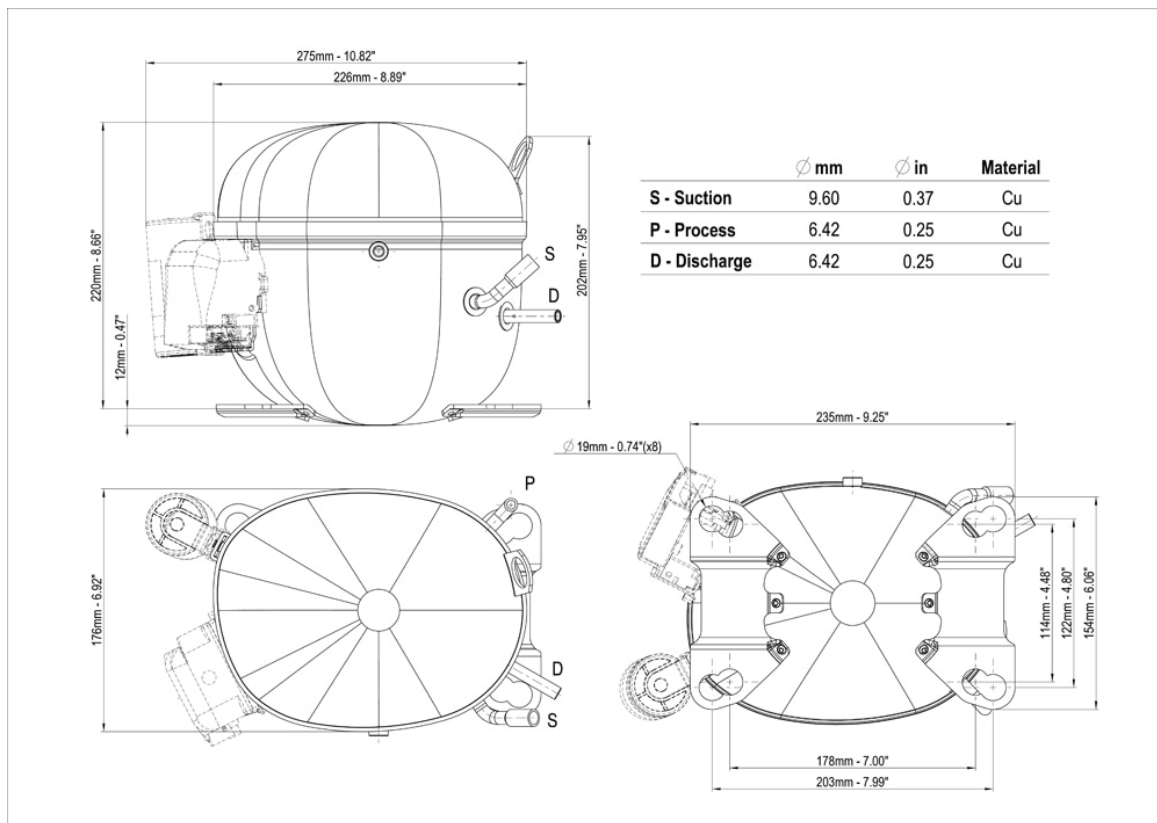
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	657	460	3.08	17.04	1.43
-5	825	513	3.31	21.53	1.61
0	1033	568	3.55	27.16	1.82
5	1283	624	3.81	34.06	2.06
10	1580	683	4.08	42.37	2.31

Test Condition: EN12900HBP, Fan/NotControlled/200, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

