



APPROVALS



ENGINEERING CODE
268IB92

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
200-230 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
HBP

COOLING CAPACITY
885 W (HBP)

EFFICIENCY
2.33 W/W (HBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	9.99 cm ³
Compressor Cooling	Fan/NotControlled/230
Fan Air Flow	520 m ³ /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	Gas Flow Rate	Efficiency
50.00°C	5.00°C	885 W	380 W	22.29 kg/h	2.33 W/W

Test Condition: EN12900HBP, Fan/NotControlled/230, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C, Liquid 50°C, Subcooling 0K. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	452	222	9.57	2.03
-10	576	246	12.27	2.34
-5	722	271	15.44	2.67
0	891	295	19.16	3.02
5	1086	321	23.52	3.38
10	1309	348	28.61	3.75

Test Condition: EN12900HBP, Fan/NotControlled/230, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	385	236	8.93	1.63
-10	495	266	11.55	1.87
-5	626	296	14.67	2.11
0	778	327	18.38	2.38
5	955	359	22.75	2.66
10	1159	393	27.87	2.95

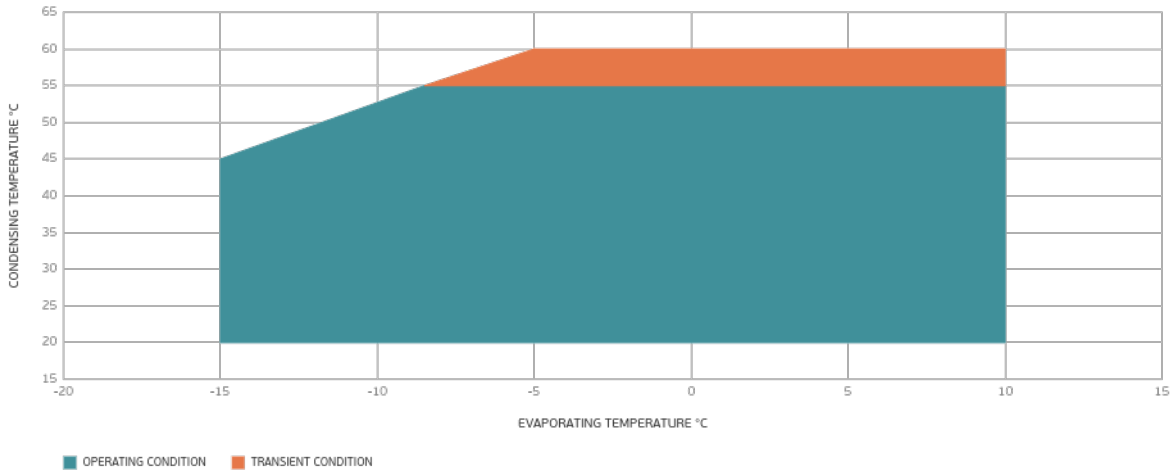
Test Condition: EN12900HBP, Fan/NotControlled/230, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

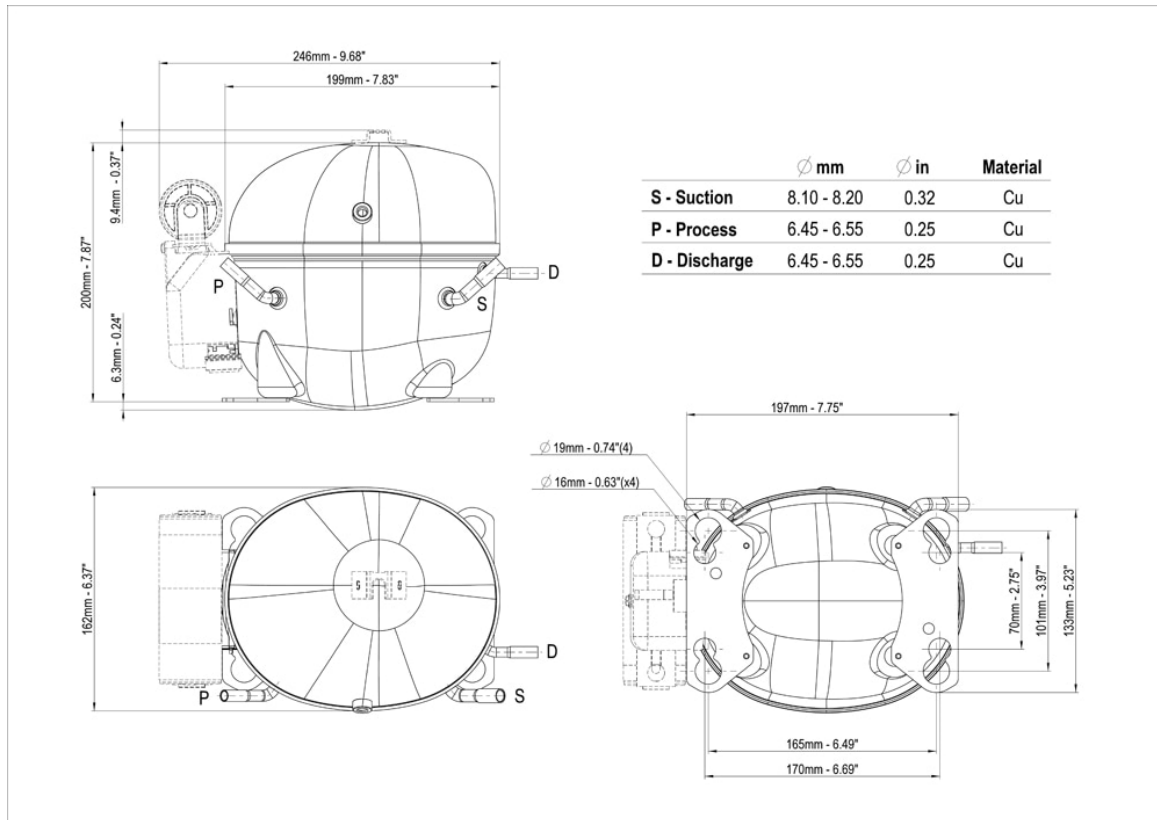
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	422	285	10.95	1.48
-5	536	321	13.98	1.67
0	670	357	17.62	1.88
5	827	394	21.96	2.1
10	1010	433	27.08	2.33

Test Condition: EN12900HBP, Fan/NotControlled/230, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

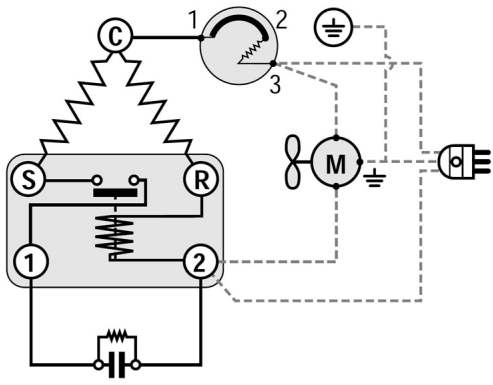
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

