

APPROVALS



ENGINEERING CODE
267JN51

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
200-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
HBP

COOLING CAPACITY
1028 W (HBP)

EFFICIENCY
2.5 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	200-240 V 50 Hz / 230 V 60 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST

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	10.5 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	43-53 Uf / 330 V
Starting Device	Relay MTRP-41*
Motor Protection	T1026

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	188 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.1 mm	Straight/Copper
Process	6.1 mm	Slanted 42°/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	1028 W	412 W	2.57 A	22.76 kg/h	2.5 W/W

Test Condition: ASHRAEHBP46, Fan/NotControlled/230, 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	500	228	1.59	9.22	2.19
-10	633	251	1.7	11.72	2.52
-5	792	273	1.82	14.72	2.9
0	979	296	1.94	18.27	3.31
5	1195	319	2.07	22.42	3.74
10	1440	342	2.21	27.21	4.22

Test Condition: ASHRAEHBP46, Fan/NotControlled/230, 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	442	243	1.65	8.81	1.82
-10	562	272	1.79	11.25	2.07
-5	706	301	1.94	14.18	2.34
0	874	331	2.1	17.65	2.64
5	1069	360	2.28	21.70	2.97
10	1291	389	2.48	26.39	3.31

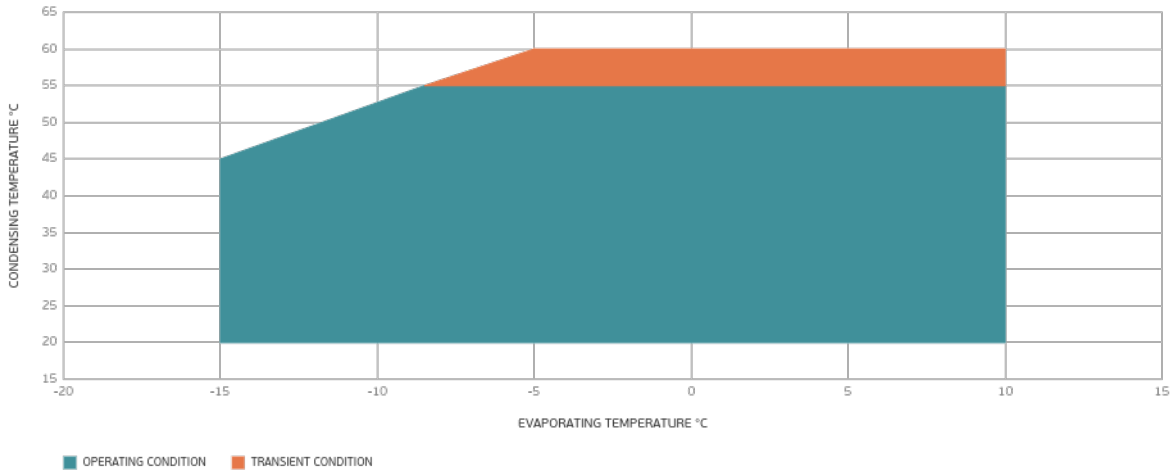
Test Condition: ASHRAEHBP46, Fan/NotControlled/230, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

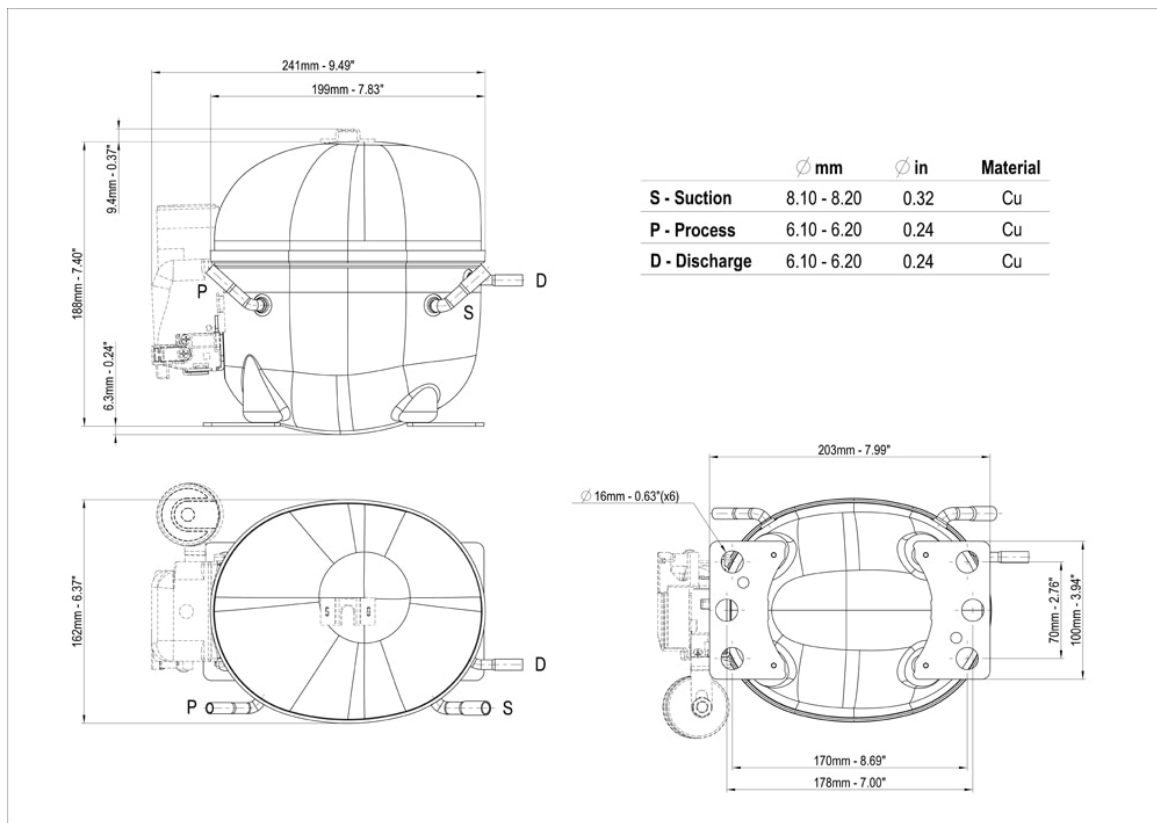
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	486	292	1.87	10.61	1.66
-5	614	327	2.05	13.46	1.88
0	764	363	2.25	16.83	2.11
5	937	398	2.48	20.78	2.35
10	1134	433	2.72	25.35	2.62

Test Condition: ASHRAEHBP46, Fan/NotControlled/230, 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.

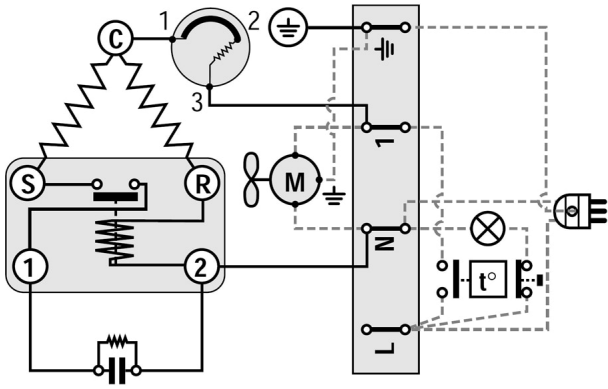
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

