

APPROVALS



ENGINEERING CODE
861LA51

APPROVED REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
HBP

COOLING CAPACITY
704 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	14.28 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/4 hp
Max Condensing Pressure Operating	6.73 bar
Max Condensing Pressure Peak	7.69 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	28.9 Ω at 25° C
Run Winding Resistance	6.8 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	350 ml
Oil Type Configuration	MINERAL
Oil Type Viscosity	ISO32
Pressurization	Without dry air charge
Weight	10.6 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	43-53 Uf / 330 V
Motor Protection	T0186/G6
Starting Device	Relay MTRPH-0026-59*

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	Gas Flow Rate	Efficiency
50.00°C	5.00°C	704 W	305 W	9.64 kg/h	2.31 W/W

Test Condition: EN12900HBP, Fan/NotControlled/220, 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	368	196	4.32	1.87
-10	463	213	5.45	2.17
-5	573	229	6.77	2.5
0	700	244	8.30	2.88
5	845	257	10.06	3.29
10	1009	269	12.06	3.75

Test Condition: EN12900HBP, Fan/NotControlled/220, 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	321	205	4.11	1.57
-10	406	227	5.22	1.8
-5	507	248	6.53	2.04
0	622	268	8.05	2.32
5	754	288	9.80	2.61
10	904	308	11.80	2.94

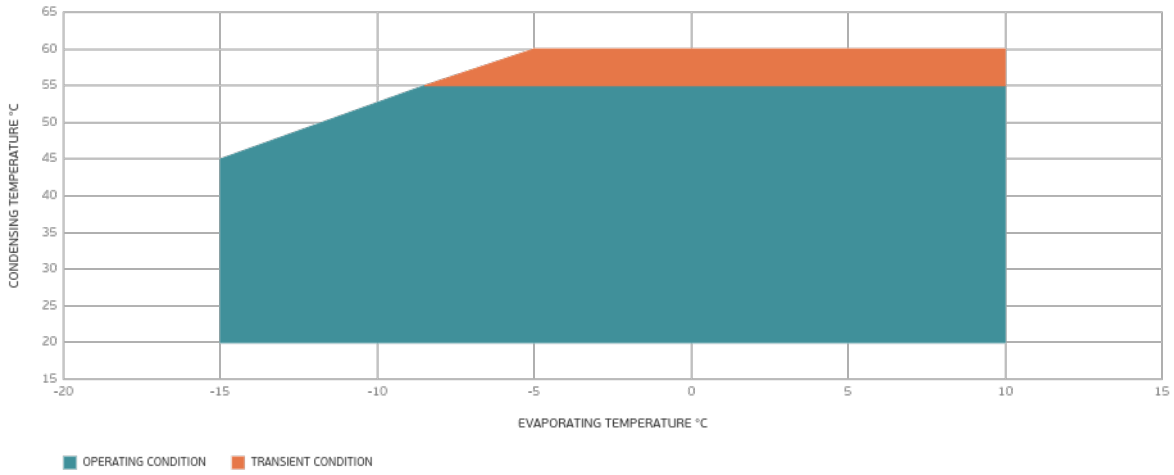
Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

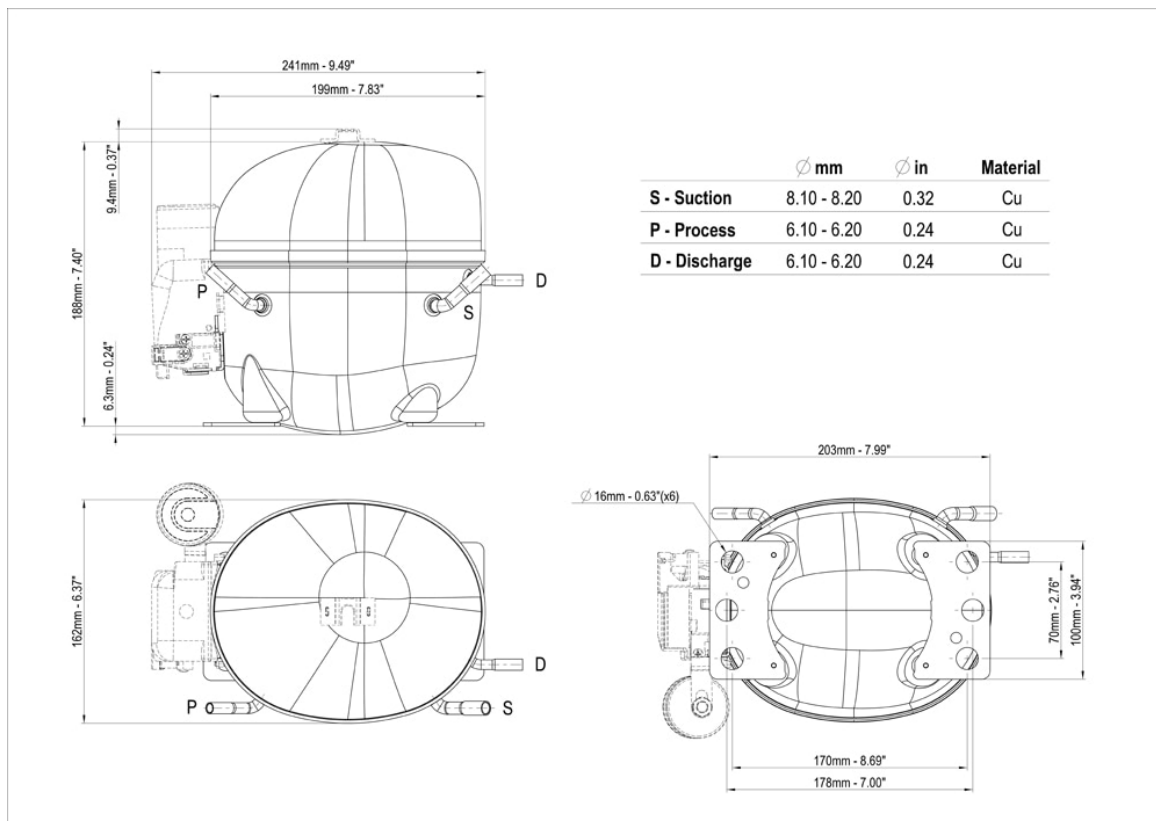
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	352	241	4.99	1.46
-5	441	266	6.27	1.66
0	544	290	7.77	1.88
5	663	314	9.51	2.11
10	797	338	11.50	2.36

Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

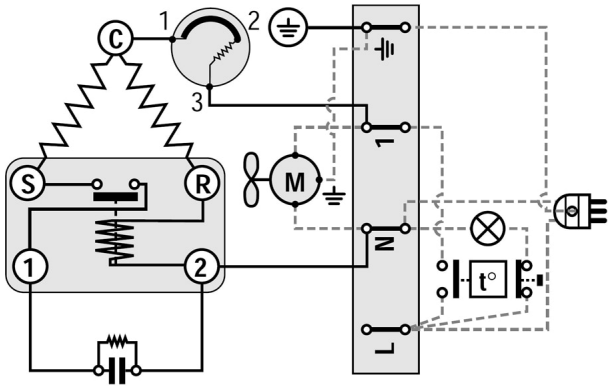
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

