



APPROVALS



 **ENGINEERING CODE**
958AA51

 **APPROVED REFRIGERANT**
R-404A

 **POWER SUPPLY**
220-240 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
252 W (LBP)

 **EFFICIENCY**
1.02 W/W (LBP)

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	8.77 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	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	31.7 Ω at 25° C
Run Winding Resistance	5.18 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	11 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	53-64 Uf / 330 V
Starting Device	Relay MTRP-0029*
Motor Protection	T0168/G5

External Characteristics

Base Plate		European	
Tray Holder		No	
Height		200 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
40.00°C	-35.00°C	252 W	248 W	6.74 kg/h	1.02 W/W

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C , Liquid 40°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
-40	200	218	5.08	0.92
-35	270	249	6.88	1.08
-30	356	280	9.14	1.27
-25	460	312	11.85	1.47
-20	580	344	15.03	1.69
-15	715	376	18.69	1.9
-10	866	408	22.83	2.12

Test Condition: EN12900LBP, 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
-35	220	254	6.35	0.86
-30	292	290	8.50	1.01
-25	380	328	11.10	1.16
-20	481	367	14.18	1.31
-15	596	407	17.74	1.46
-10	725	450	21.78	1.61

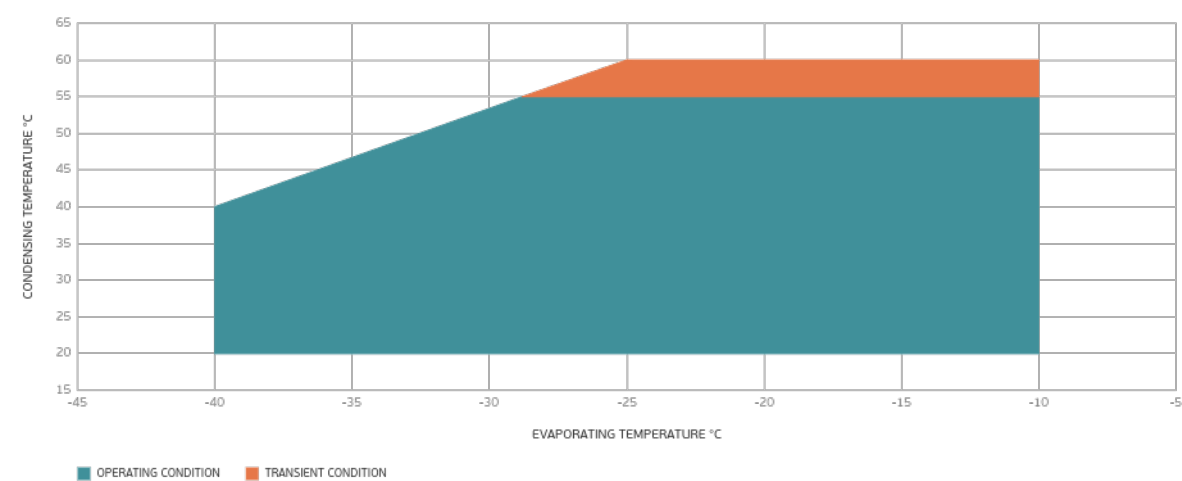
Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

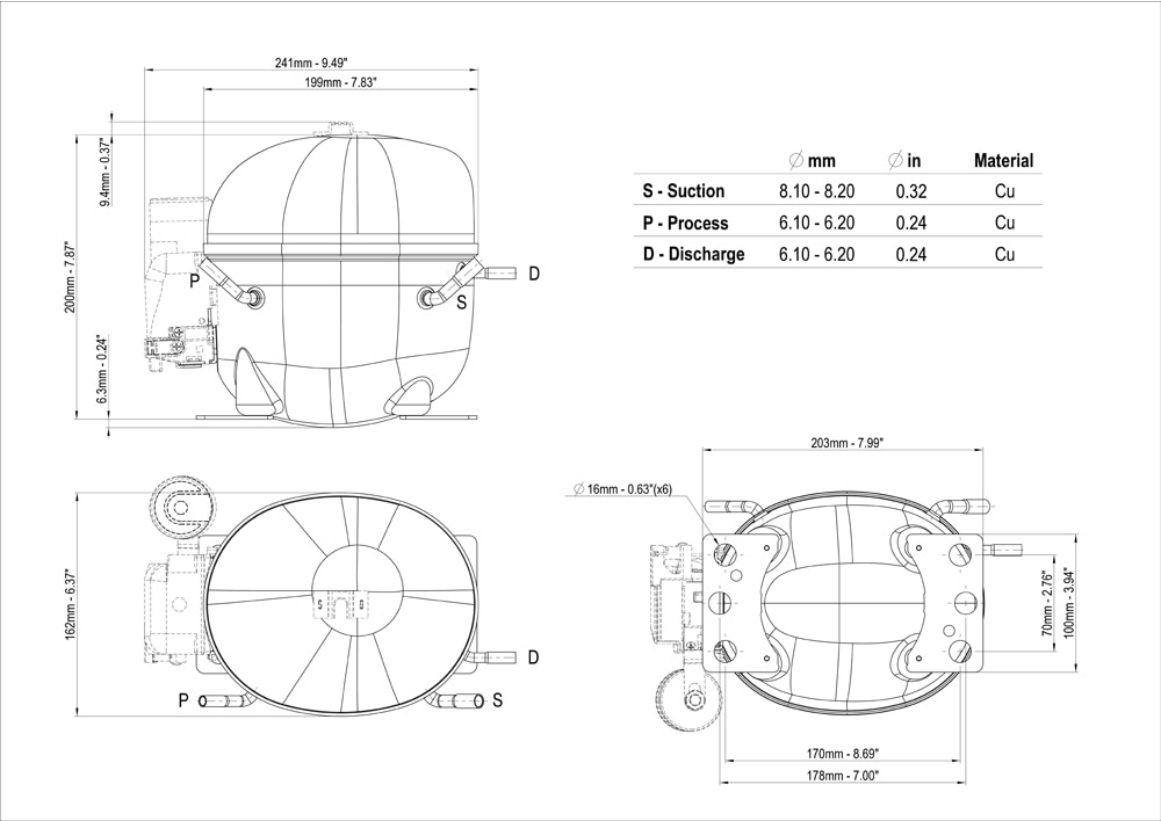
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-30	228	300	7.78	0.76
-25	298	341	10.25	0.87
-20	380	385	13.19	0.99
-15	474	432	16.62	1.1
-10	580	482	20.54	1.2

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

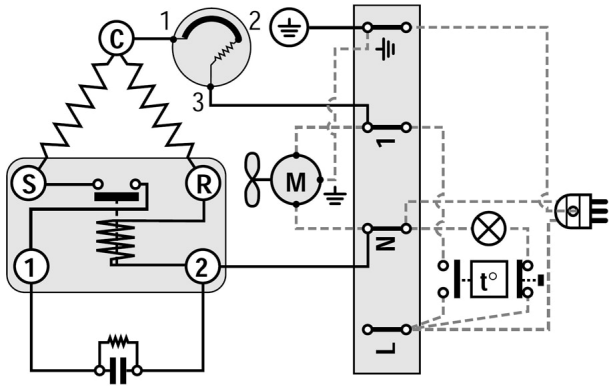
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

