



**APPROVALS**



**ENGINEERING CODE**  
513300496

**APPROVED REFRIGERANT**  
R-290

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

**STANDARD CONDITIONS**  
EN12900

**APPLICATION**  
L/MBP

**COOLING CAPACITY**  
175 W (LBP)

**EFFICIENCY**  
1.56 W/W (LBP)

**MOTOR TYPE**  
RSCR

**STARTING TORQUE**  
LST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.54 cm <sup>3</sup>
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/4 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to 0 °C

**Electrical Data**

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	13.6 Ω at 25° C
Run Winding Resistance	12.1 Ω at 25° C
Locked Rotor Amperage (LRA)	26.7 A
Rated Load Amperage (RLA) at 60 Hz	3 A

## Mechanical Data

Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	8.25 Kg

## Electrical Components

	Description
Run Capacitor	5
Starting Device	PTC   7M220MD3 8EA17C3 8M220MD3 QP2-20A QPS2-A22MD3 QPS2-A22MD3 091
Motor Protection	BT107-130

## External Characteristics

Tray Holder	No	
Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 40° up + 45° to Back/Copper
Discharge	4.9 mm	Slanted 0° up + 24° to Back/Copper
Process	6.1 mm	Slanted 40° up + 45° to Back/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	175 W	112 W	2.00 kg/h	1.56 W/W

Test Condition: EN12900LBP, Static/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
-35	193	110	2.12	1.75
-30	246	122	2.70	2.01
-25	313	134	3.45	2.33
-20	393	145	4.36	2.7
-15	486	156	5.41	3.11
-10	591	166	6.61	3.56
-5	705	173	7.95	4.07
0	829	178	9.41	4.65

Test Condition: EN12900LBP, Static/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	156	113	1.88	1.38
-30	198	128	2.39	1.55
-25	253	143	3.06	1.77
-20	319	158	3.89	2.02
-15	397	172	4.86	2.3
-10	486	186	5.98	2.61
-5	584	198	7.23	2.94
0	689	209	8.61	3.3

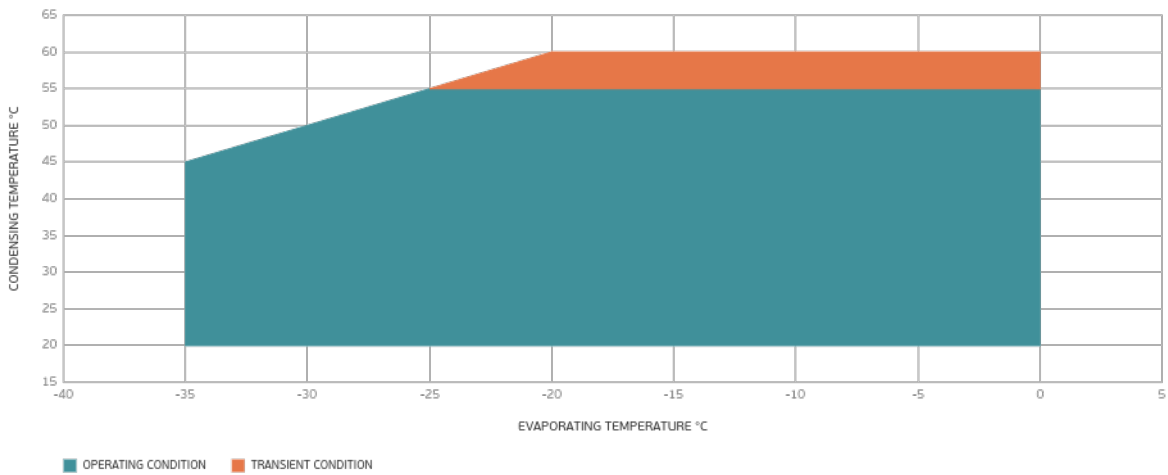
Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

## Condensing Temperature 55°C

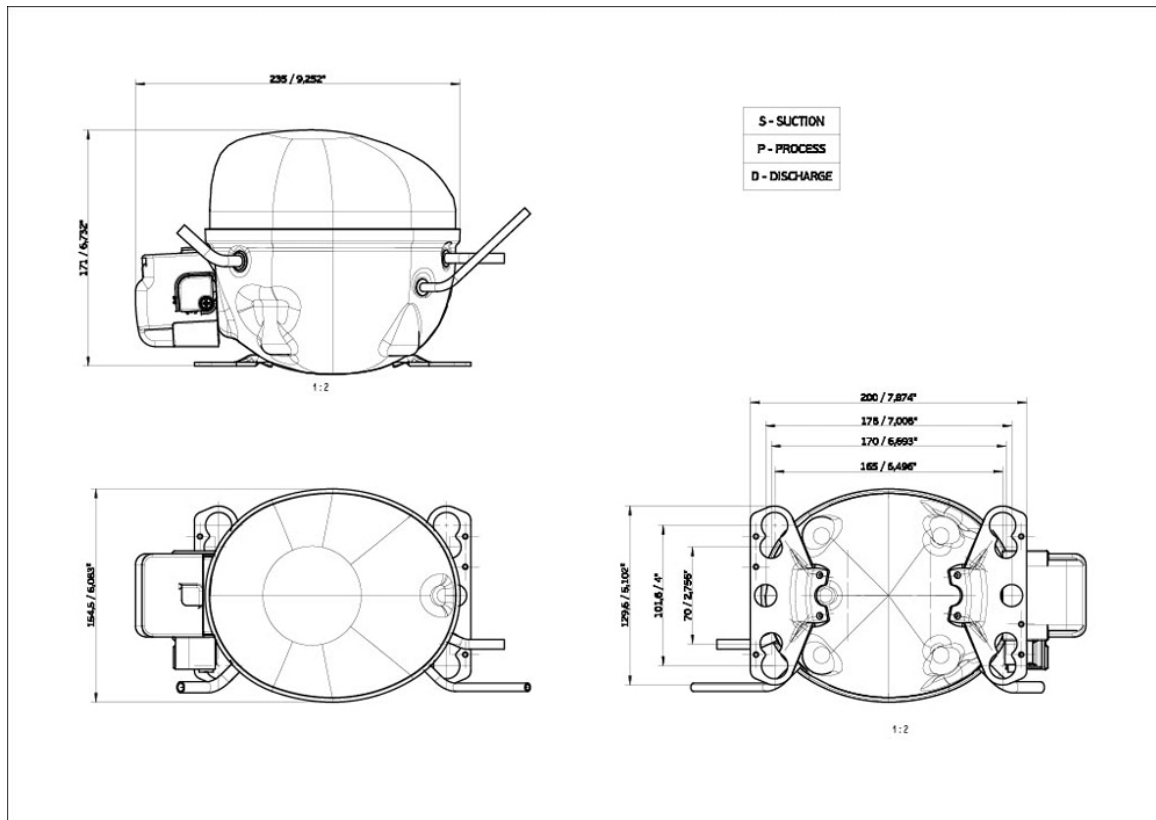
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	120	115	1.62	1.05
-30	151	132	2.03	1.15
-25	193	149	2.61	1.3
-20	246	166	3.34	1.48
-15	309	184	4.22	1.68
-10	382	202	5.24	1.89
-5	462	218	6.39	2.12
0	549	232	7.67	2.36

Test Condition: EN12900LBP, Static/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

