



APPROVALS



ENGINEERING CODE
513304031

APPROVED REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
167 W (LBP)

EFFICIENCY
1.4 W/W (LBP)

MOTOR TYPE
RSCR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	6.09 cm ³
Compressor Cooling	Fan/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to -10 °C

Electrical Data

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	12.6 Ω at 25° C
Run Winding Resistance	12.1 Ω at 25° C

Mechanical Data

Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	8.03 Kg

Electrical Components

	Description
Run Capacitor	5
Motor Protection	4TM283KFBYY-53 CP4TMC283N61 DRB29N61A*
Starting Device	PTC 7M220MD3 8EA17C3 8M220MD3 QP2-20A QPS2-A22MD3 QPS2-A22MD3 091

External Characteristics

Tray Holder	Yes	
Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42° up + 45° to Back/Copper
Discharge	4.94 mm	Slanted parallel BP+24°to Back/Copper
Process	6.1 mm	Slanted 45° 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	167 W	119 W	1.91 kg/h	1.4 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 OK. 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	183	116	2.01	1.58
-30	236	129	2.60	1.82
-25	298	141	3.29	2.12
-20	368	151	4.08	2.44
-15	448	162	4.99	2.77
-10	537	175	6.02	3.08

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. 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	151	121	1.82	1.25
-30	199	137	2.40	1.45
-25	254	151	3.08	1.69
-20	317	164	3.86	1.94
-15	389	178	4.76	2.18
-10	470	195	5.78	2.41

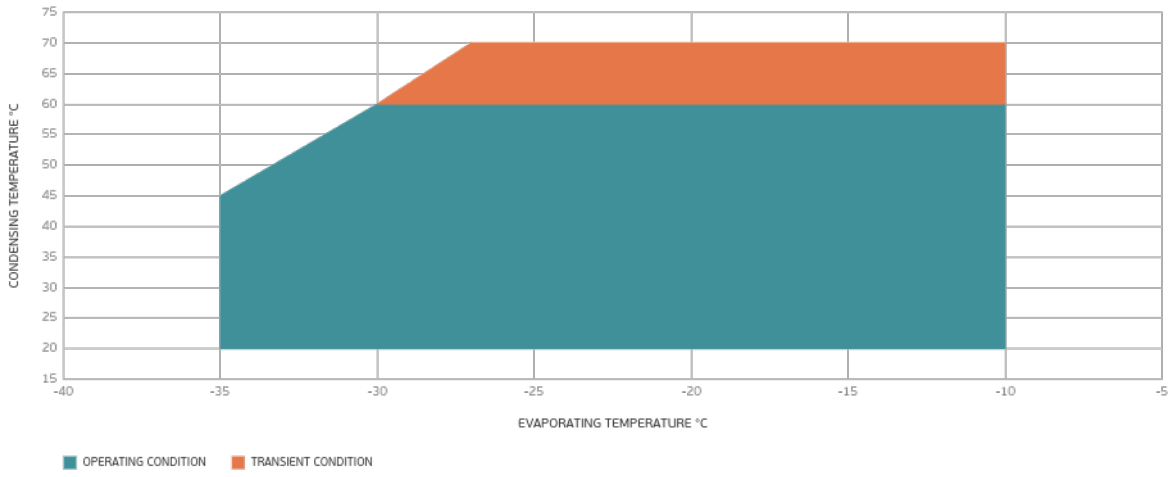
Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

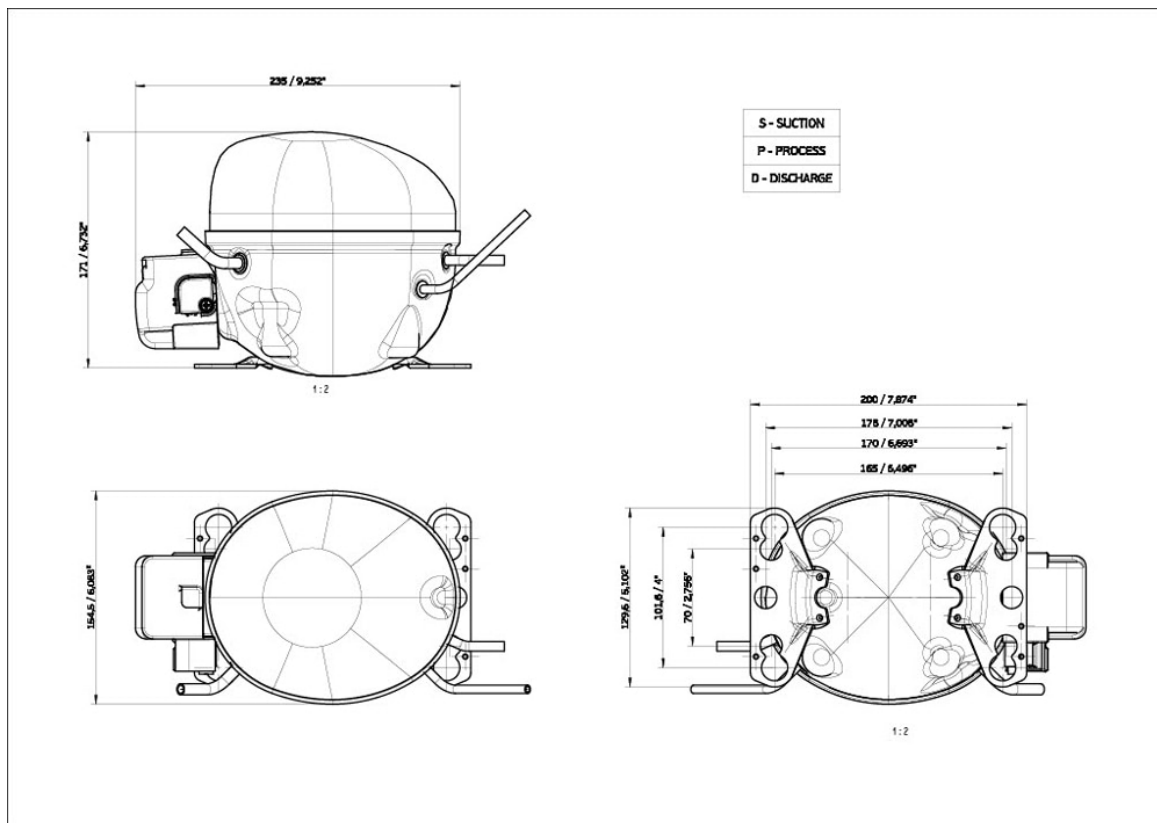
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	122	125	1.64	0.98
-30	163	142	2.19	1.15
-25	211	157	2.85	1.34
-20	267	173	3.62	1.54
-15	331	190	4.51	1.74
-10	402	210	5.52	1.92

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions



Wiring Diagram

