



APPROVALS



ENGINEERING CODE
513306199

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
L/MBP

COOLING CAPACITY
32 W (LBP)

EFFICIENCY
0.62 W/W (LBP)

MOTOR TYPE
RSIR/CSIR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	2.83 cm ³
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Power Supply	220-240 V 50 Hz / 220-240 V 60 Hz
Evaporating Temperature Range	-35 °C to -5 °C

Electrical Data

Motor type	RSIR/CSIR
Starting Torque	LST
Start Winding Resistance	46.15 Ω at 25° C
Run Winding Resistance	24.65 Ω at 25° C
Rated Load Amperage (RLA) at 50 Hz	1.35 A

Mechanical Data

Oil Charge	180 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	7.24 Kg

Electrical Components

	Description
Motor Protection	4TM189KFBYY-53
Starting Device	Relay 213514032 213515225*
Start Capacitor	72-88 Uf / 145 V

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	33 W	53 W	0.72 kg/h	0.62 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 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	27	72	0.60	0.38
-30	44	79	0.95	0.56
-25	66	85	1.41	0.78
-20	93	91	1.98	1.03
-15	125	96	2.67	1.3
-10	162	102	3.47	1.59
-5	205	109	4.40	1.88

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	32	45	0.73	0.72
-30	47	52	1.08	0.89
-25	66	59	1.52	1.12
-20	89	65	2.06	1.37
-15	117	71	2.72	1.65
-10	149	77	3.48	1.93
-5	186	85	4.37	2.19

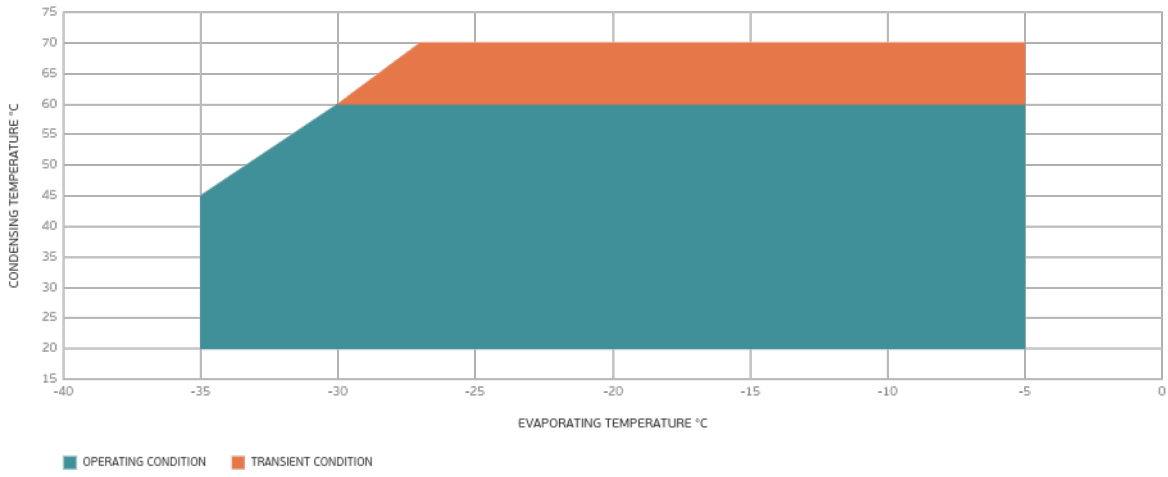
Test Condition: EN12900LBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

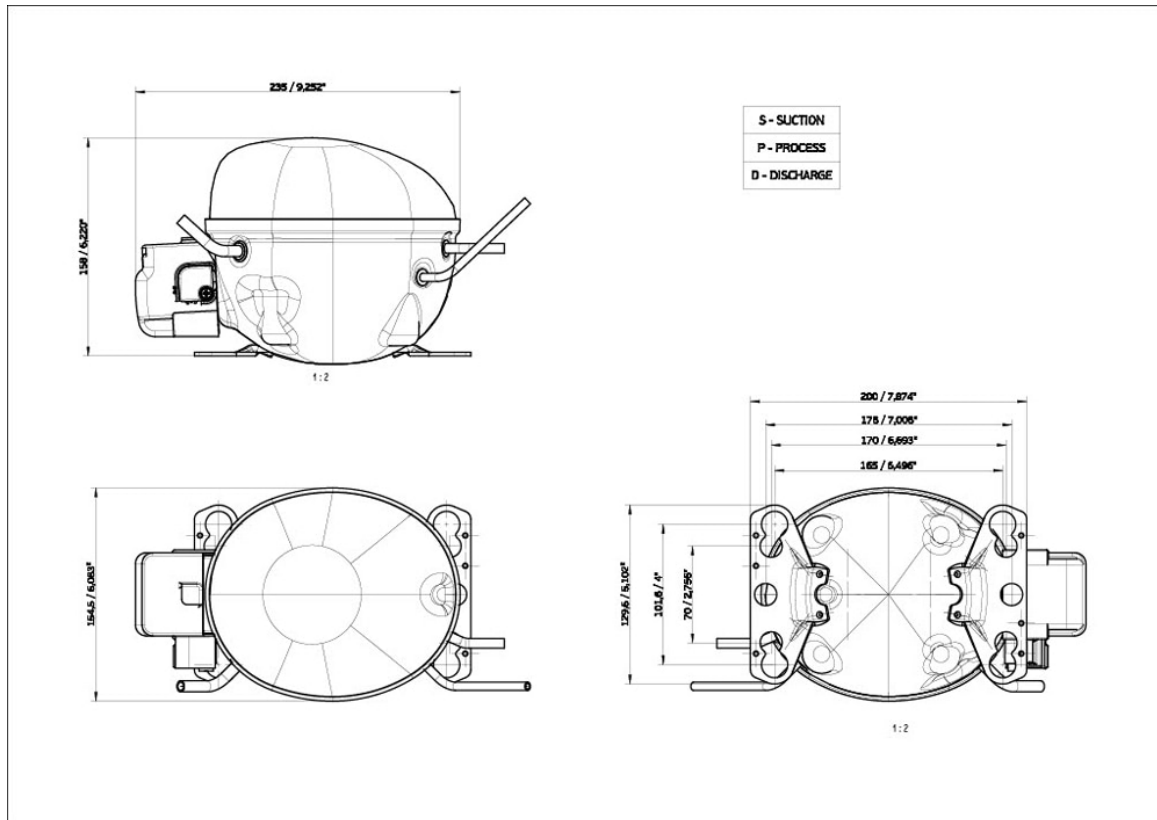
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	21	44	0.54	0.48
-30	34	53	0.87	0.64
-25	50	61	1.29	0.83
-20	71	68	1.81	1.04
-15	94	75	2.44	1.25
-10	122	83	3.16	1.47
-5	153	92	4.00	1.67

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

SM28-4

