




APPROVALS




 **ENGINEERING CODE**
513300059

 **APPROVED REFRIGERANT**
R-600a

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

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
67 W (LBP)

 **EFFICIENCY**
0.8 W/W (LBP)

 **MOTOR TYPE**
RSIR

 **STARTING TORQUE**
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.96 cm ³
Compressor Cooling	Static/Controlled/220
Expansion Device	Capillary Tube
Horse Power	1/5 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to -10 °C

Electrical Data

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	25.45 Ω at 25° C
Run Winding Resistance	23.57 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	ALQUILB
Oil Type Viscosity	ISO5
Weight	7.4 Kg

Electrical Components

	Description
Starting Device	PTC 8EA17B1
Motor Protection	4TM 158NFBYY-53

External Characteristics

Tray Holder	Yes	
Connector	Internal Diameter	Shape
Suction	6.2 mm	Slanted 40° up + 45° to Back/Copper
Discharge	4.9 mm	Slanted 0° up + 24° to Back/Copper
Process	6.2 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	67 W	83 W	1.13 kg/h	0.8 W/W

Test Condition: EN12900LBP, Static/Controlled/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	59	106	1.69	0.56
-30	86	115	2.00	0.75
-25	118	124	2.39	0.96
-20	158	132	2.85	1.19
-15	203	141	3.39	1.44
-10	256	150	4.01	1.71

Test Condition: EN12900LBP, Static/Controlled/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	67	73	0.85	0.92
-30	90	84	1.15	1.08
-25	119	95	1.52	1.26
-20	154	106	1.97	1.45
-15	195	118	2.50	1.66
-10	243	130	3.12	1.87

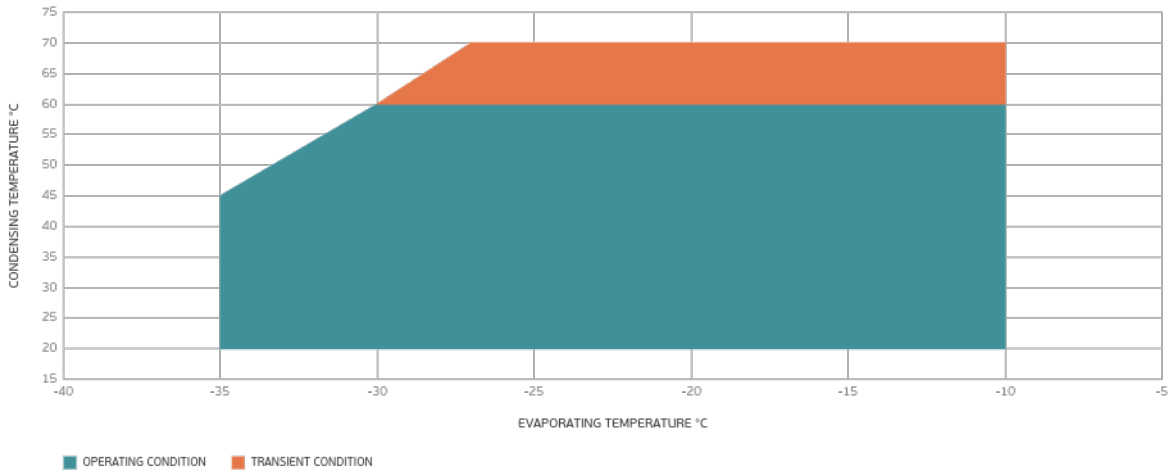
Test Condition: EN12900LBP, Static/Controlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	56	74	0.78	0.76
-30	76	86	1.07	0.89
-25	101	99	1.43	1.03
-20	132	112	1.86	1.18
-15	169	126	2.38	1.34
-10	211	142	2.98	1.49

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

Operating Envelope



External Dimensions

