MODEL

FF8,5HBK



APPROVALS

ENGINEERING CODE
513200878

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
L/M/HBP

COOLING CAPACITY
86 W (LBP)

EFFICIENCY
0.66 W/W (LBP)

MOTOR TYPE
RSIR/CSIR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	7.95 cm³
Compressor Cooling	Fan/NotControled/220
Expansion Device	Capillary Tube
Horse Power	1/4 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to 15 °C

Electrical Data

Motor type	RSIR/CSIR
Starting Torque	LST
Start Winding Resistance	24 Ω at 25° C
Run Winding Resistance	8.6 Ω at 25° C
Locked Rotor Amperage (LRA)	26.7 A
Rated Load Amperage (RLA) at 60 Hz	3 A

Mechanical Data

Oil Charge	280 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	10.05 Kg

Electrical Components

	Description
Starting Device	Relay | 213516442 213516469*
Start Capacitor	88-108 Uf / 180 V
Motor Protection	MRP61AMZ-5590

External Characteristics

Tray Holder	No

Connector	Internal Diameter	Shape
Suction	8.2 mm	Slanted/Copper
Discharge	6.5 mm	Slanted/Copper
Process	6.5 mm	Slanted/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
40.00°C	-35.00°C	86 W	131 W	2.18 kg/h	0.66 W/W

Test Condition: EN12900LBP, Fan/NotControled/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	70	152	2.43	0.46
-30	102	169	3.16	0.61
-25	149	186	4.17	0.8
-20	212	203	5.48	1.04
-15	290	220	7.12	1.32
-10	385	235	9.14	1.63
-5	496	249	11.57	1.99
0	626	260	14.43	2.4
5	774	269	17.77	2.88
10	941	275	21.61	3.43
15	1128	276	25.98	4.08

Test Condition: EN12900LBP, Fan/NotControled/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	88	121	2.01	0.73
-30	118	141	2.74	0.84
-25	160	163	3.72	0.98
-20	215	185	5.00	1.16
-15	284	208	6.60	1.37
-10	368	231	8.56	1.59
-5	466	253	10.91	1.85
0	580	273	13.68	2.12
5	710	292	16.91	2.43
10	857	310	20.63	2.77
15	1022	324	24.87	3.15

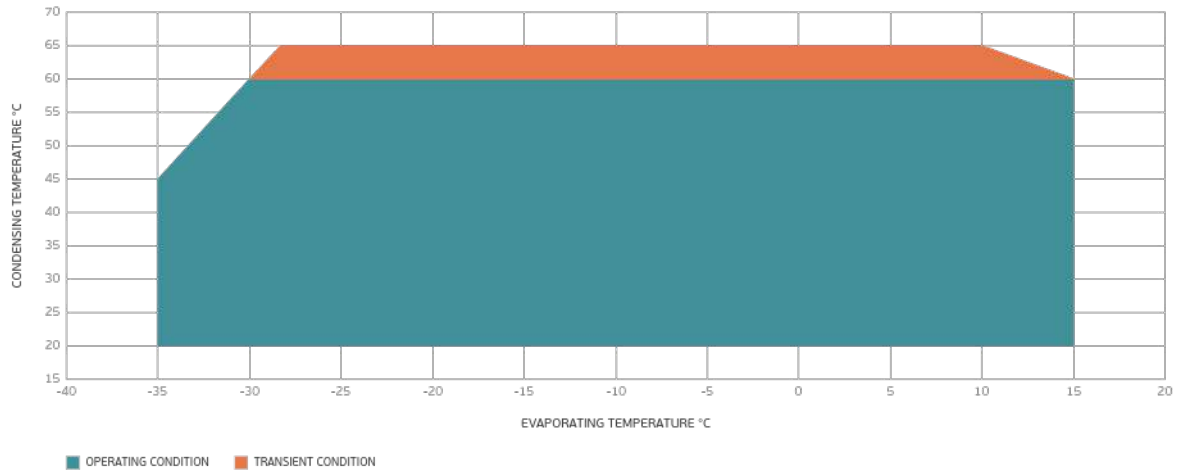
Test Condition: EN12900LBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	69	119	1.74	0.58
-30	96	141	2.46	0.68
-25	133	165	3.43	0.81
-20	182	190	4.67	0.95
-15	241	217	6.23	1.11
-10	314	246	8.12	1.28
-5	399	274	10.39	1.46
0	497	302	13.07	1.64
5	610	330	16.19	1.85
10	737	357	19.79	2.07
15	879	382	23.89	2.3

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

Operating Envelope



External Dimensions

