

APPROVALS



ENGINEERING CODE
513200349

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220 V 60 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
L/M/HBP

COOLING CAPACITY
165 W (LBP)

EFFICIENCY
0.75 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	11.14 cm ³
Compressor Cooling	Fan/NotControlled/220
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/3 hp
Power Supply	220 V 60 Hz
Evaporating Temperature Range	-35 °C to 15 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	14.55 Ω at 25° C
Run Winding Resistance	4.69 Ω at 25° C

Mechanical Data

Oil Charge	280 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	11.46 Kg

Electrical Components

	Description
Starting Device	Relay 213516485*
Motor Protection	B143-110 MST40AIZ-5590
Start Capacitor	64-77 124-149 Uf / 250 V

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	166 W	220 W	3.63 kg/h	0.75 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 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	142	242	2.96	0.58
-30	208	271	4.38	0.77
-25	292	299	6.16	0.98
-20	397	326	8.39	1.22
-15	527	352	11.15	1.49
-10	683	378	14.54	1.81
-5	868	403	18.63	2.16
0	1086	427	23.52	2.55
5	1339	450	29.30	2.98
10	1631	472	36.05	3.46
15	1964	493	43.86	3.99

Test Condition: EN12900LBP, Fan/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	166	208	3.80	0.8
-30	228	242	5.25	0.94
-25	305	278	7.02	1.1
-20	399	314	9.21	1.27
-15	514	351	11.91	1.46
-10	652	389	15.20	1.68
-5	817	428	19.17	1.91
0	1011	468	23.91	2.16
5	1238	508	29.50	2.43
10	1499	550	36.04	2.73
15	1798	592	43.60	3.04

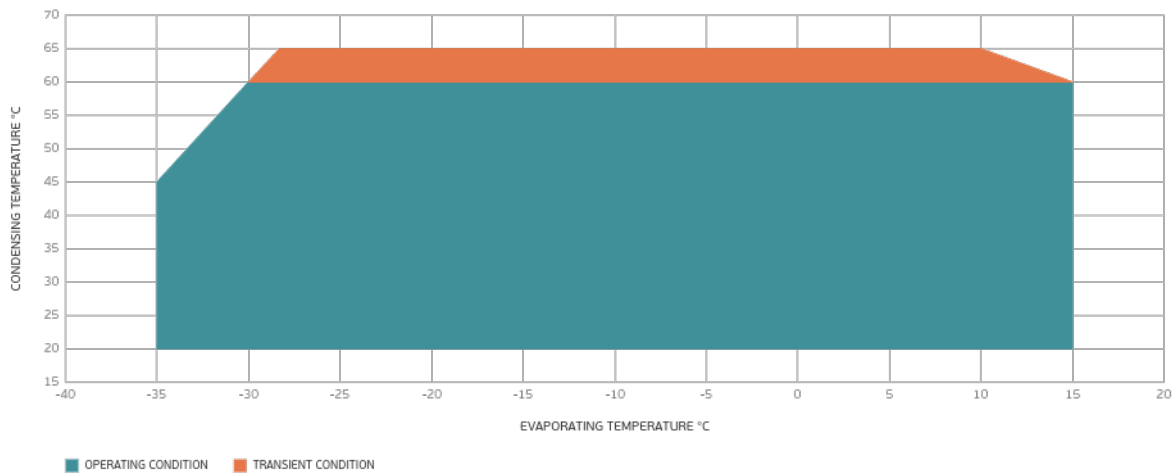
Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	125	200	3.19	0.63
-30	183	239	4.68	0.77
-25	253	280	6.46	0.9
-20	336	324	8.64	1.04
-15	438	371	11.29	1.18
-10	559	420	14.51	1.33
-5	704	472	18.38	1.49
0	875	526	22.98	1.67
5	1075	582	28.41	1.85
10	1307	642	34.76	2.04
15	1573	703	42.10	2.24

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

