



APPROVALS



ENGINEERING CODE
513306247

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
HBP

COOLING CAPACITY
315 W (HBP)

EFFICIENCY
2.38 W/W (HBP)

MOTOR TYPE
RSIR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	3.4 cm ³
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	RSIR
Starting Torque	LST
Start Winding Resistance	31.7 Ω at 25° C
Run Winding Resistance	26.1 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	ISO22
Weight	7.24 Kg

Electrical Components

	Description
Starting Device	PTC V230
Motor Protection	T0225/07

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 mm	Slanted 43° up + 45° to Back/Copper(OD)

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
50.00°C	5.00°C	315 W	132 W	7.95 kg/h	2.38 W/W

Test Condition: EN12900HBP, Static/NotControlled/220, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C, Liquid 50°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
-15	165	83	3.50	2
-10	210	90	4.47	2.33
-5	263	97	5.62	2.71
0	324	103	6.96	3.15
5	393	108	8.52	3.63
10	471	114	10.30	4.13

Test Condition: EN12900HBP, Static/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
-15	141	86	3.26	1.64
-10	180	96	4.20	1.89
-5	227	105	5.32	2.17
0	281	114	6.63	2.47
5	343	123	8.16	2.8
10	412	132	9.92	3.14

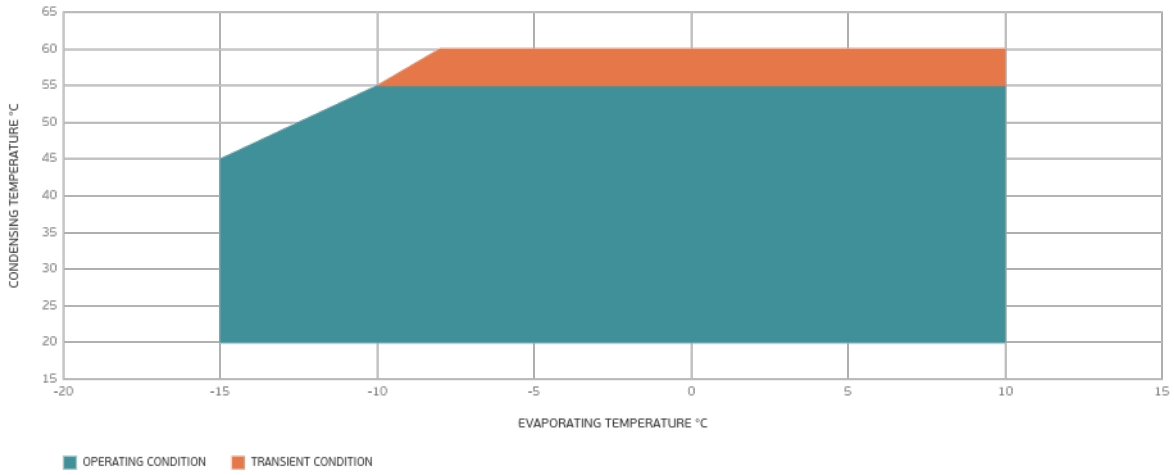
Test Condition: EN12900HBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	117	90	3.02	1.3
-10	151	102	3.90	1.48
-5	191	113	4.98	1.69
0	238	124	6.25	1.92
5	292	135	7.74	2.16
10	353	147	9.46	2.4

Test Condition: EN12900HBP, Static/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions

