



**APPROVALS**



**ENGINEERING CODE**  
268KA51

**APPROVED REFRIGERANT**  
R-134a

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

**STANDARD CONDITIONS**  
EN12900

**APPLICATION**  
HBP

**COOLING CAPACITY**  
762 W (HBP)

**EFFICIENCY**  
2.18 W/W (HBP)

**MOTOR TYPE**  
CSIR

**STARTING TORQUE**  
HST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	8.39 cm <sup>3</sup>
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	520 m <sup>3</sup> /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/4 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

**Electrical Data**

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	22.18 Ω at 25° C
Run Winding Resistance	10.05 Ω at 25° C

## Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	10.15 Kg
Free Internal Volume	2.1 L

## Electrical Components

	Description
Start Capacitor	43-53 Uf / 330 V
Starting Device	Relay   MTRP-0027*
Motor Protection	T1026/G6

## External Characteristics

Base Plate	European	
Tray Holder	No	
Height	200 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.1 mm	Straight/Copper
Process	6.1 mm	Slanted 42°/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
50.00°C	5.00°C	762 W	349 W	19.17 kg/h	2.18 W/W

Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C, Liquid 50°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
-15	387	233	8.20	1.66
-10	492	249	10.48	1.98
-5	618	265	13.20	2.33
0	765	281	16.45	2.72
5	936	297	20.29	3.15
10	1134	314	24.79	3.62

Test Condition: EN12900HBP, 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
-15	334	242	7.74	1.38
-10	427	264	9.97	1.62
-5	539	286	12.64	1.88
0	671	308	15.83	2.17
5	824	331	19.62	2.49
10	1001	353	24.06	2.84

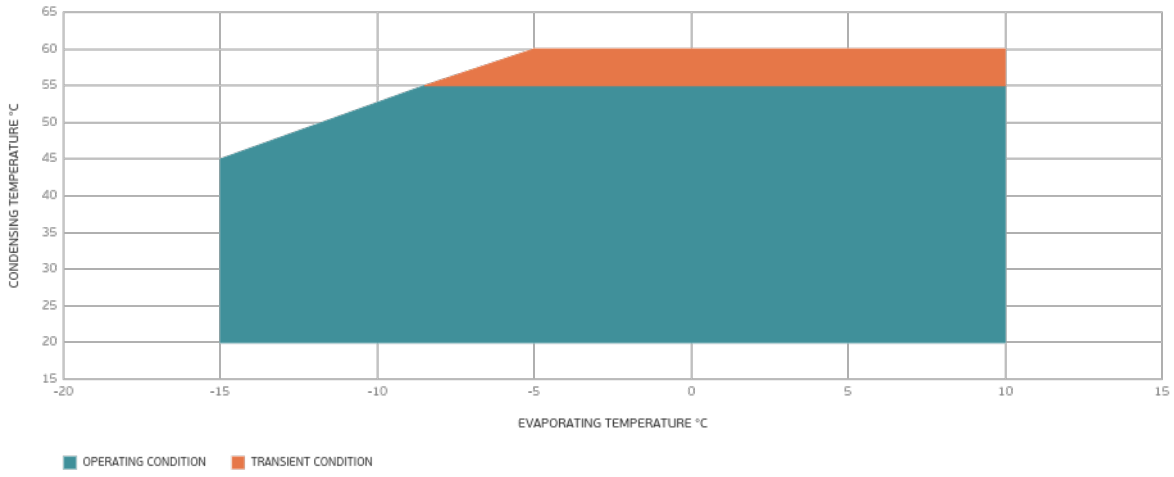
Test Condition: EN12900HBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

### Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-10	361	281	9.35	1.28
-5	458	307	11.96	1.49
0	574	334	15.08	1.72
5	708	360	18.80	1.97
10	864	387	23.17	2.24

Test Condition: EN12900HBP, Fan/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



## Assembly Instructions

