



**APPROVALS**



**ENGINEERING CODE**  
194MA67

**APPROVED REFRIGERANT**  
R-134a

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

**STANDARD CONDITIONS**  
ASHRAE

**APPLICATION**  
HBP

**COOLING CAPACITY**  
477 W (HBP)

**EFFICIENCY**  
2.62 W/W (HBP)

**MOTOR TYPE**  
RSIR

**STARTING TORQUE**  
LST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	4.5 cm <sup>3</sup>
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	33.6 Ω at 25° C
Run Winding Resistance	18.7 Ω at 25° C

**Mechanical Data**

Oil Charge	180 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	7.7 Kg

## Electrical Components

	Description
Starting Device	PTC   V230
Motor Protection	T0521/26

## External Characteristics

Tray Holder	Yes	
Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42°/Copper
Discharge	4.86 mm	Straight/Copper
Process	6.1 mm	Slanted 42°/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	477 W	182 W	1.07 A	10.55 kg/h	2.62 W/W

Test Condition: ASHRAEHBP46, Static/NotControlled/220, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C, Liquid 46.1°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

## Performance Curve Data

### Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-15	276	102	0.78	5.10	2.7
-10	353	111	0.81	6.54	3.18
-5	445	120	0.85	8.27	3.72
0	550	128	0.88	10.28	4.28
5	667	137	0.91	12.52	4.88
10	792	144	0.94	14.96	5.51

Test Condition: ASHRAEHBP46, Static/NotControlled/220, Return Gas 35°C, Ambient 35°C, Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-15	224	108	0.8	4.46	2.07
-10	284	120	0.84	5.69	2.36
-5	360	133	0.89	7.23	2.71
0	449	145	0.93	9.06	3.09
5	548	157	0.98	11.14	3.49
10	657	169	1.03	13.43	3.9

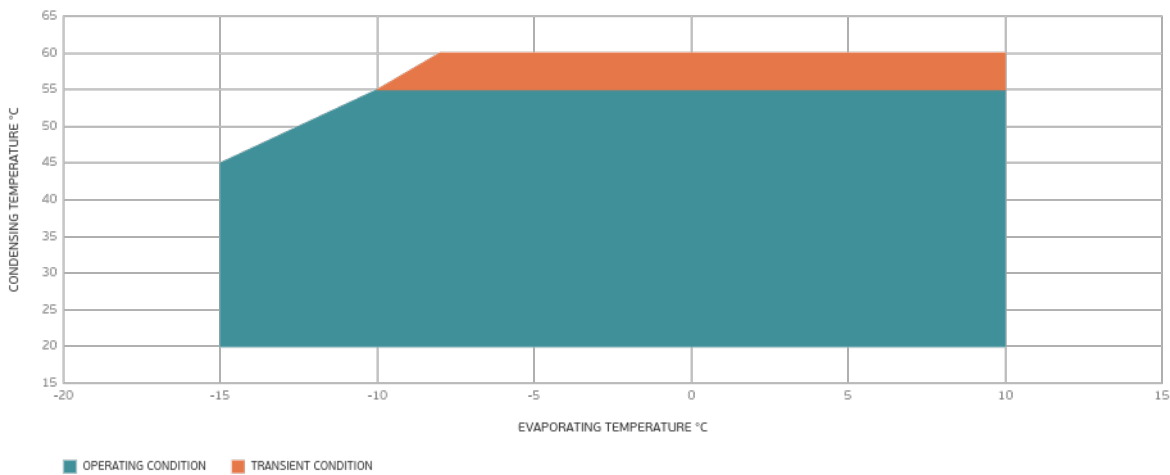
Test Condition: ASHRAEHBP46, Static/NotControlled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-15	179	117	0.83	3.90	1.54
-10	222	131	0.87	4.85	1.69
-5	280	147	0.93	6.14	1.91
0	351	161	0.98	7.72	2.17
5	432	176	1.05	9.57	2.45
10	521	190	1.12	11.65	2.75

Test Condition: ASHRAEHBP46, Static/NotControlled/220, Return Gas 35°C, Ambient 35°C , Subcooling 8.3K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Operating Envelope



## External Dimensions

