



**APPROVALS**



**ENGINEERING CODE**  
513305574

**APPROVED REFRIGERANT**  
R-134a

**POWER SUPPLY**  
220 V 50 Hz

**STANDARD CONDITIONS**  
ARI 540

**APPLICATION**  
LBP

**COOLING CAPACITY**  
166 W (LBP)

**EFFICIENCY**  
1.42 W/W (LBP)

**MOTOR TYPE**  
RSCR

**STARTING TORQUE**  
LST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	6.36 cm <sup>3</sup>
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/4 hp
Power Supply	220 V 50 Hz
Evaporating Temperature Range	-35 °C to -10 °C

**Electrical Data**

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	12.13 Ω at 25° C
Run Winding Resistance	19.45 Ω at 25° C
Rated Load Amperage (RLA) at 50 Hz	1.35 A

## Mechanical Data

Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	7.53 Kg

## Electrical Components

	Description
Run Capacitor	5
Motor Protection	4TM232KFBYY-53
Starting Device	PTC   8EA17C3 8EA17E61 8EA17E62 8EA17E63 8M220MD3 QPS2-A22MD3 QPS2-A22MD3 091

## External Characteristics

Tray Holder	No	
Connector	Internal Diameter	Shape
Suction	6.5 mm	Slanted 42° up + 45° to Back/Copper
Discharge	4.94 mm	Slanted parallel BP+24°to Back/Copper
Process	6.5 mm	Slanted parallel BP+45°to Back/Copper

## PERFORMANCE

## Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
48.90°C	-23.30°C	166 W	117 W	4.36 kg/h	1.42 W/W

Test Condition: ARILBP, Static/NotControlled/220, Return Gas 4.4°C, Evaporation -23.30°C, Condensing 48.90°C, Ambient 35°C , Liquid 48.9°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
-35	106	79	2.40	1.34
-30	147	92	3.34	1.59
-25	198	106	4.50	1.86
-20	259	120	5.92	2.15
-15	332	134	7.61	2.47
-10	417	147	9.63	2.83

Test Condition: ARILBP, Static/NotControlled/220, Return Gas 4.4°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	83	81	2.07	1.03
-30	119	94	2.97	1.26
-25	163	110	4.10	1.48
-20	217	127	5.48	1.71
-15	282	145	7.15	1.94
-10	358	163	9.15	2.19

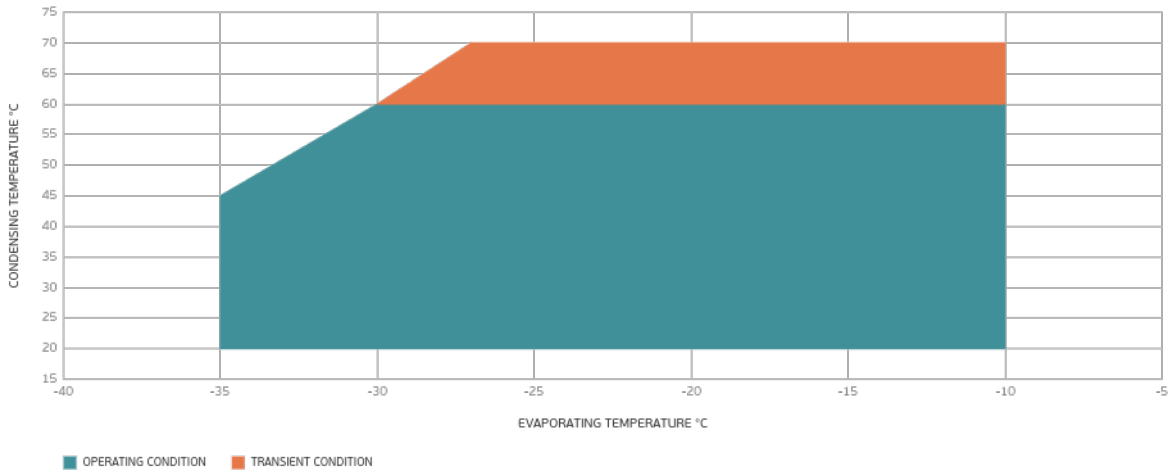
Test Condition: ARILBP, Static/NotControlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

### Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	62	82	1.74	0.76
-30	92	96	2.58	0.96
-25	130	112	3.65	1.16
-20	176	131	4.98	1.34
-15	232	152	6.61	1.53
-10	299	174	8.58	1.71

Test Condition: ARILBP, Static/NotControlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

## Operating Envelope



## External Dimensions

