



APPROVALS



ENGINEERING CODE
513306588

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220 V 50 Hz

STANDARD CONDITIONS
ARI 540

APPLICATION
LBP

COOLING CAPACITY
147 W (LBP)

EFFICIENCY
1.3 W/W (LBP)

MOTOR TYPE
RSCR

STARTING TORQUE
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.96 cm ³
Compressor Cooling	Static/Controlled/220
Expansion Device	Capillary Tube
Horse Power	1/5 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	18.88 Ω at 25° C
Run Winding Resistance	19.62 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	ISO10
Weight	7.49 Kg

Electrical Components

	Description
Run Capacitor	5
Motor Protection	4TM232KFBYY-53
Starting Device	PTC 7M220MD3 8EA17C3 8EA17E63 8M220MD3 QPS2-A22MD3 QPS2-A22MD3 091 QPS2-C22MD3J8

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 30° up + 24° to Back/Copper
Process	6.5 mm	Slanted 45° up + 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	147 W	113 W	3.89 kg/h	1.3 W/W

Test Condition: ARILBP, Static/Controlled/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	64	111	0.78	0.58
-30	100	125	1.61	0.8
-25	144	138	2.64	1.05
-20	198	150	3.87	1.32
-15	262	162	5.34	1.62
-10	336	172	7.08	1.95

Test Condition: ARILBP, Static/Controlled/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	72	79	1.79	0.91
-30	103	93	2.58	1.1
-25	142	108	3.57	1.31
-20	190	124	4.79	1.53
-15	246	140	6.25	1.77
-10	312	155	7.98	2.02

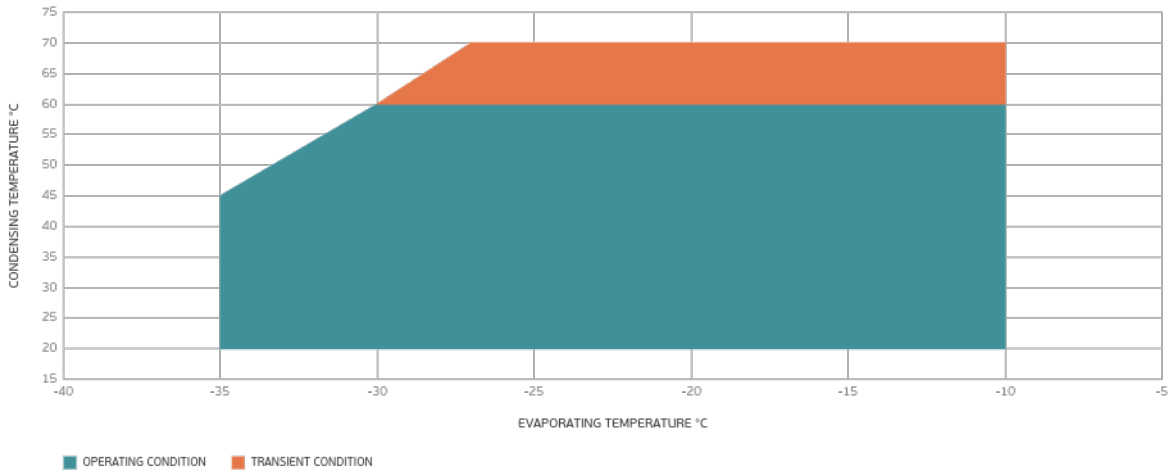
Test Condition: ARILBP, Static/Controlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-35	54	79	1.51	0.68
-30	80	93	2.25	0.86
-25	113	110	3.19	1.03
-20	154	128	4.36	1.21
-15	203	147	5.79	1.39
-10	261	166	7.50	1.57

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

Operating Envelope



External Dimensions

