


APPROVALS




 **ENGINEERING CODE**
513700341


 **APPROVED REFRIGERANT**
R-134a


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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
LBP

 **COOLING CAPACITY**
301 W (LBP)

 **EFFICIENCY**
1.36 W/W (LBP)

 **MOTOR TYPE**
RSIR/CSIR

 **STARTING TORQUE**
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	10.61 cm ³
Compressor Cooling	Static/NotControlled/220
Expansion Device	Capillary Tube
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to -10 °C

Electrical Data

Motor type	RSIR/CSIR
Starting Torque	LST
Start Winding Resistance	34.7 Ω at 25° C
Run Winding Resistance	7.6 Ω at 25° C
Locked Rotor Amperage (LRA)	11.5 A
Rated Load Amperage (RLA) at 60 Hz	2 A

Mechanical Data

Oil Charge	230 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	11.23 Kg

Electrical Components

	Description
Motor Protection	4TM319NFBYY-53
Starting Device	Relay 213516442 213516469*
Start Capacitor	72-88 Uf / 220 V

External Characteristics

Tray Holder	No	
Connector	Internal Diameter	Shape
Suction	6.5 mm	Straight/Copper
Discharge	4.94 mm	Straight/Copper
Process	6.5 mm	Straight/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	302 W	221 W	1.74 A	5.85 kg/h	1.36 W/W

Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C, Subcooling 22.2K. 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
-35	142	168	1.57	2.83	0.84
-30	201	181	1.64	3.99	1.11
-25	275	197	1.69	5.43	1.4
-20	367	216	1.74	7.22	1.7
-15	478	238	1.78	9.42	2.01
-10	612	263	1.82	12.08	2.33

Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. 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
-35	167	149	1.56	3.22	1.12
-30	225	174	1.64	4.35	1.29
-25	297	200	1.7	5.76	1.48
-20	386	229	1.77	7.50	1.69
-15	495	258	1.84	9.64	1.91
-10	626	290	1.92	12.24	2.16

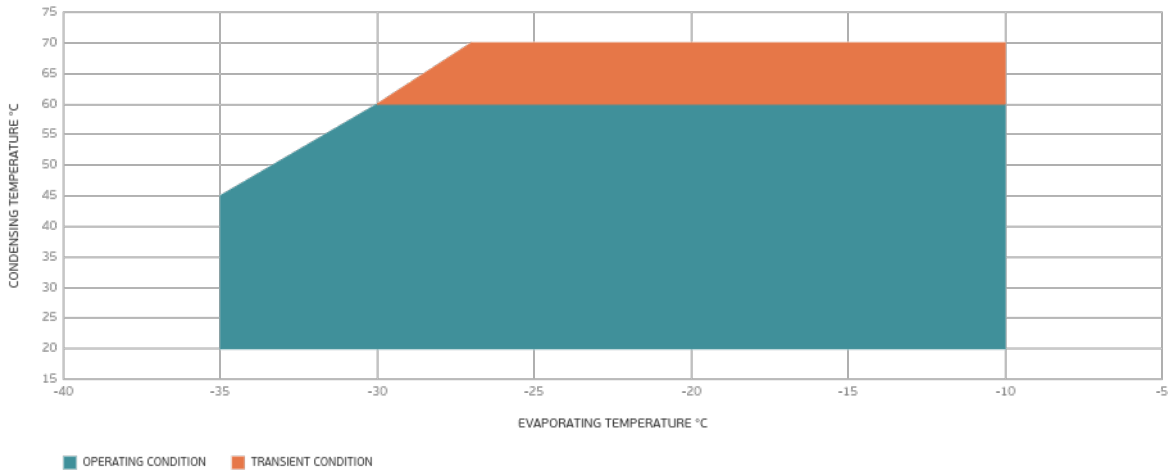
Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	145	144	1.57	2.80	1.01
-30	202	177	1.64	3.90	1.14
-25	272	210	1.71	5.27	1.29
-20	358	244	1.79	6.97	1.47
-15	464	278	1.88	9.05	1.67
-10	592	312	1.99	11.57	1.9

Test Condition: ASHRAELBP32, Static/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Operating Envelope



External Dimensions

