


APPROVALS




 **ENGINEERING CODE**
513200765


 **APPROVED REFRIGERANT**
R-134a

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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
L/MBP

 **COOLING CAPACITY**
309 W (LBP)

 **EFFICIENCY**
1.38 W/W (LBP)

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
LST/HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	10.61 cm ³
Compressor Cooling	Fan/NotControlled/220
Expansion Device	Capillary Tube / Expansion Valve
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to -5 °C

Electrical Data

Motor type	CSIR
Starting Torque	LST/HST
Start Winding Resistance	16.5 Ω at 25° C
Run Winding Resistance	7.5 Ω at 25° C

Mechanical Data

Oil Charge	280 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Weight	11.25 Kg

Electrical Components

	Description
Start Capacitor	88-108 Uf / 250 V
Starting Device	Relay 213516345*
Motor Protection	4TM757KFBYY-53 STM 757KFBYY-53

External Characteristics

Tray Holder	No	
Connector	Internal Diameter	Shape
Suction	8.2 mm	Straight/Copper
Discharge	6.5 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	309 W	223 W	1.88 A	5.99 kg/h	1.38 W/W

Test Condition: ASHRAELBP32, Fan/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	144	190	1.67	2.90	0.76
-30	209	210	1.76	4.16	1
-25	289	230	1.82	5.72	1.26
-20	386	251	1.86	7.61	1.54
-15	501	272	1.9	9.88	1.84
-10	636	295	1.95	12.57	2.16
-5	794	320	2.02	15.71	2.48

Test Condition: ASHRAELBP32, Fan/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	163	155	1.7	3.15	1.05
-30	227	181	1.79	4.39	1.26
-25	306	206	1.85	5.92	1.48
-20	400	233	1.89	7.78	1.72
-15	513	261	1.94	10.00	1.97
-10	646	291	2.01	12.64	2.22
-5	800	324	2.11	15.72	2.47

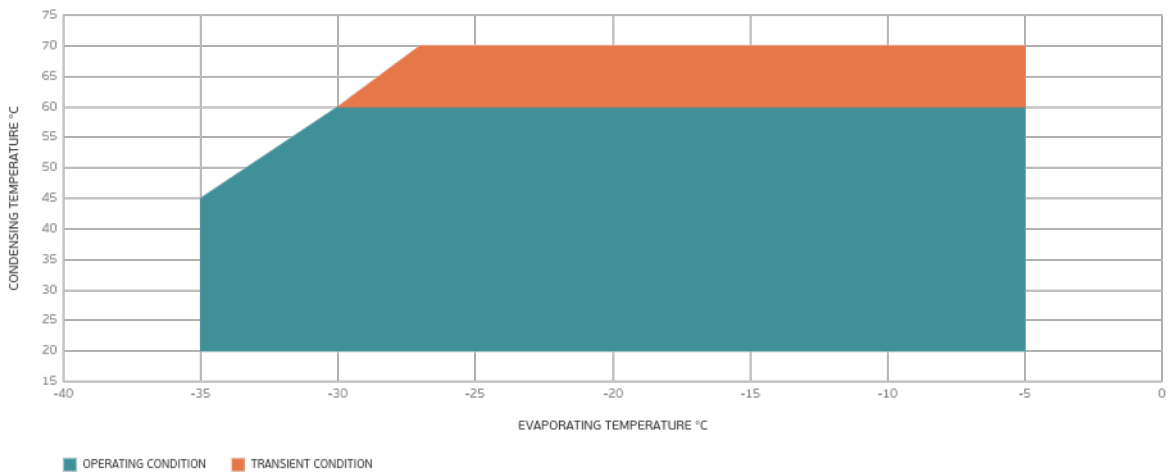
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	137	151	1.72	2.65	0.91
-30	200	182	1.8	3.87	1.1
-25	277	213	1.86	5.37	1.3
-20	370	246	1.92	7.19	1.51
-15	481	280	1.99	9.36	1.72
-10	610	317	2.08	11.94	1.93
-5	762	356	2.21	14.96	2.14

Test Condition: ASHRAELBP32, Fan/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

