

APPROVALS



ENGINEERING CODE
513203001

APPROVED REFRIGERANT
R-134a

POWER SUPPLY
220 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
L/MBP

COOLING CAPACITY
476 W (LBP)

EFFICIENCY
1.49 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
LST/HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	12.92 cm ³
Compressor Cooling	Fan/NotControlled/220
Expansion Device	Capillary Tube / Expansion Valve
Horse Power	1/2 hp
Power Supply	220 V 60 Hz
Evaporating Temperature Range	-35 °C to 0 °C

Electrical Data

Motor type	CSIR
Starting Torque	LST/HST
Start Winding Resistance	11.8 Ω at 25° C
Run Winding Resistance	4.9 Ω at 25° C
Locked Rotor Amperage (LRA)	26.7 A
Rated Load Amperage (RLA) at 60 Hz	3 A

Mechanical Data

Oil Charge	280 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	10.85 Kg

Electrical Components

	Description
Starting Device	Relay 213516584*
Start Capacitor	88-108 Uf / 330 V
Motor Protection	MSP30AMK-5590

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	476 W	320 W	2.29 A	9.25 kg/h	1.49 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	271	217	2.02	5.22	1.25
-30	344	248	2.08	6.67	1.39
-25	443	281	2.16	8.58	1.58
-20	570	317	2.27	11.07	1.8
-15	729	357	2.41	14.20	2.04
-10	924	403	2.58	18.08	2.29
-5	1160	457	2.79	22.78	2.54
0	1439	519	3.04	28.40	2.77

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	263	212	2.05	5.09	1.24
-30	349	252	2.12	6.76	1.38
-25	454	293	2.22	8.81	1.55
-20	583	335	2.33	11.33	1.74
-15	739	381	2.48	14.41	1.94
-10	927	432	2.65	18.13	2.14
-5	1150	490	2.86	22.58	2.35
0	1412	556	3.1	27.86	2.54

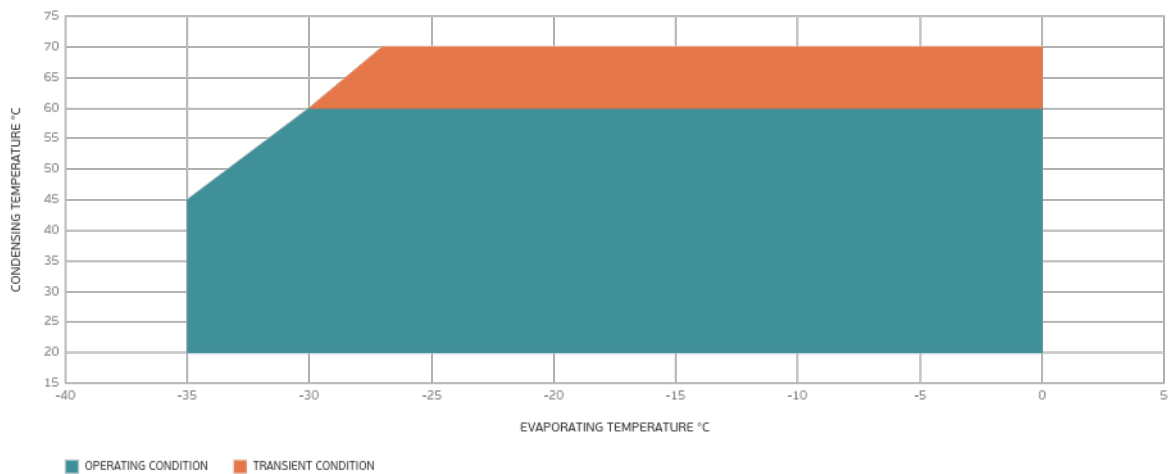
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	214	213	1.98	4.13	1.01
-30	316	259	2.11	6.11	1.22
-25	432	305	2.24	8.38	1.42
-20	567	351	2.4	11.02	1.62
-15	725	400	2.58	14.13	1.81
-10	909	453	2.78	17.78	2.01
-5	1124	511	3.01	22.08	2.2
0	1373	577	3.27	27.10	2.38

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

