



APPROVALS



ENGINEERING CODE
958KB51

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
200-230 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
480 W (LBP)

EFFICIENCY
1.35 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	8.77 cm ³
Compressor Cooling	Fan/NotControlled/200
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	200-230 V 50 Hz / 208-230 V 60 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	27.95 Ω at 25° C
Run Winding Resistance	5.11 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	11.17 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	64-77 Uf / 330 V
Starting Device	Relay MTRP-49*
Motor Protection	T0660/J5

External Characteristics

Base Plate	European	
Tray Holder	No	
Height	200 mm	
Connector	Internal Diameter	Shape
Suction	8.1 mm	Slanted 42°/Copper
Discharge	6.1 mm	Straight/Copper
Process	6.1 mm	Slanted 42°/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	480 W	356 W	2.5 A	11.10 kg/h	1.35 W/W

Test Condition: ASHRAELBP32, Fan/NotControlled/200, 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
-40	226	211	2.09	5.19	1.07
-35	300	242	2.16	6.90	1.24
-30	393	273	2.24	9.07	1.44
-25	506	303	2.33	11.74	1.67
-20	641	334	2.43	14.94	1.92
-15	797	365	2.55	18.69	2.19
-10	976	395	2.67	23.03	2.47

Test Condition: ASHRAELBP32, Fan/NotControlled/200, 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	279	250	2.18	6.41	1.12
-30	369	287	2.28	8.50	1.28
-25	478	325	2.39	11.06	1.47
-20	607	364	2.52	14.13	1.67
-15	758	404	2.67	17.73	1.88
-10	930	444	2.84	21.90	2.09

Test Condition: ASHRAELBP32, Fan/NotControlled/200, 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
-30	334	297	2.31	7.68	1.13
-25	439	341	2.45	10.13	1.29
-20	563	387	2.61	13.07	1.46
-15	707	434	2.8	16.52	1.63
-10	873	484	3.01	20.52	1.8

Test Condition: ASHRAELBP32, Fan/NotControlled/200, 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



Wiring Diagram



Assembly Instructions

