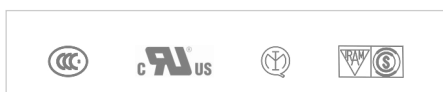


APPROVALS



ENGINEERING CODE
922EN04

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
200-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
793 W (LBP)

EFFICIENCY
1.13 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	17.39 cm ³
Compressor Cooling	Fan/NotControlled/200
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	200-240 V 50 Hz / 230 V 60 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	8.8 Ω at 25° C
Run Winding Resistance	2.3 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	17 Kg
Free Internal Volume	3.3 L

Electrical Components

	Description
Start Capacitor	88-108 Uf / 330 V
Starting Device	Relay MTRPH55-59*
Motor Protection	T0590/G6

External Characteristics

Base Plate	Universal	
Tray Holder	No	
Height	220 mm	
Connector	Internal Diameter	Shape
Suction	9.6 mm	Vertical/Copper
Discharge	6.42 mm	Vertical/Copper
Process	6.42 mm	Vertical/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	793 W	701 W	4.33 A	18.35 kg/h	1.13 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	392	402	3.14	8.99	0.98
-35	527	472	3.37	12.12	1.12
-30	697	541	3.6	16.09	1.29
-25	900	606	3.83	20.86	1.48
-20	1132	668	4.07	26.37	1.69
-15	1390	725	4.32	32.58	1.92
-10	1672	779	4.59	39.46	2.15

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	470	475	3.41	10.79	0.99
-30	629	557	3.73	14.49	1.13
-25	820	639	4.05	18.97	1.28
-20	1040	720	4.39	24.19	1.44
-15	1287	799	4.76	30.10	1.61
-10	1556	876	5.15	36.66	1.78

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

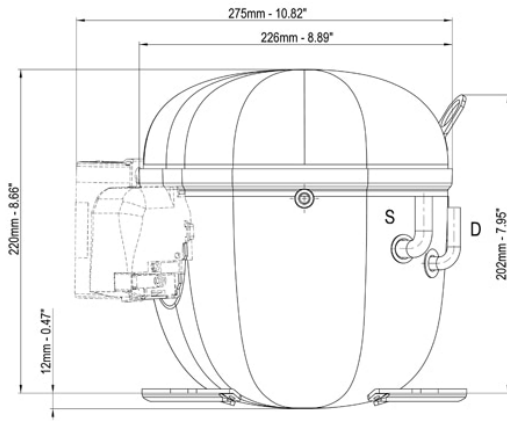
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	545	573	3.8	12.54	0.95
-25	723	669	4.2	16.69	1.08
-20	929	766	4.63	21.56	1.21
-15	1161	864	5.09	27.12	1.34
-10	1417	962	5.58	33.31	1.47

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.

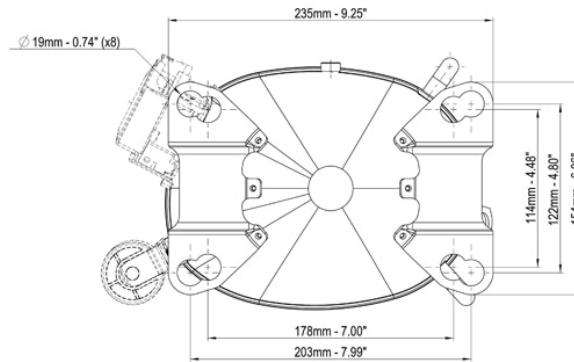
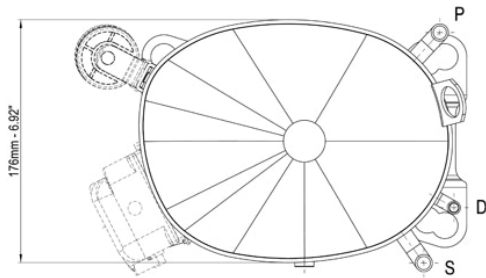
Operating Envelope



External Dimensions



	∅ mm	∅ in	Material
S - Suction	9.60	0.37	Cu
P - Process	6.42	0.25	Cu
D - Discharge	6.42	0.25	Cu



Wiring Diagram



Assembly Instructions

