



APPROVALS



ENGINEERING CODE
922ED04

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
208-230 V 60 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
1032 W

EFFICIENCY
1.3 W/W

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	17.4 cm ³
Compressor Cooling	Fan
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	208-230 V 60 Hz 1~
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	6.6 Ω at 25° C
Run Winding Resistance	1.58 Ω at 25° C
Locked Rotor Amperage (LRA)	35.5 A
Rated Load Amperage (RLA) at 60 Hz	6.4 A

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	450 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	16.7 Kg
Free Internal Volume	3.3 L

External Characteristics

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

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	1032 W	792 W	5.28 A	23.87 kg/h	1.3 W/W

Test Condition: ASHRAE, Fan, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to ASHRAE guideline polynomial curve.

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	484	448	4.06	11.09	1.08
-35	663	538	4.33	15.24	1.23
-30	878	623	4.62	20.27	1.41
-25	1131	703	4.9	26.22	1.61
-20	1422	779	5.2	33.13	1.82
-15	1751	851	5.5	41.05	2.06
-10	2119	918	5.81	50.01	2.31

Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	572	534	4.37	13.14	1.07
-30	785	634	4.69	18.08	1.24
-25	1037	733	5.04	23.99	1.41
-20	1328	831	5.42	30.88	1.6
-15	1658	928	5.82	38.81	1.79
-10	2030	1024	6.25	47.81	1.98

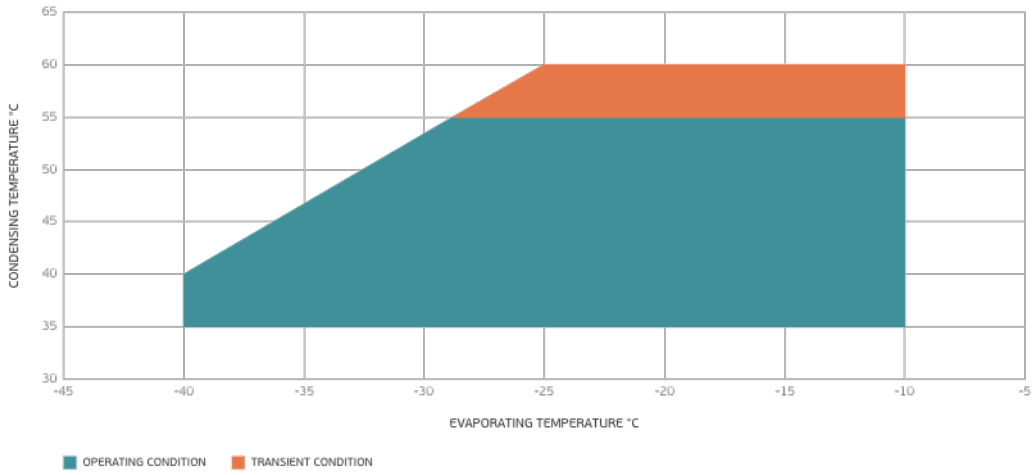
Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

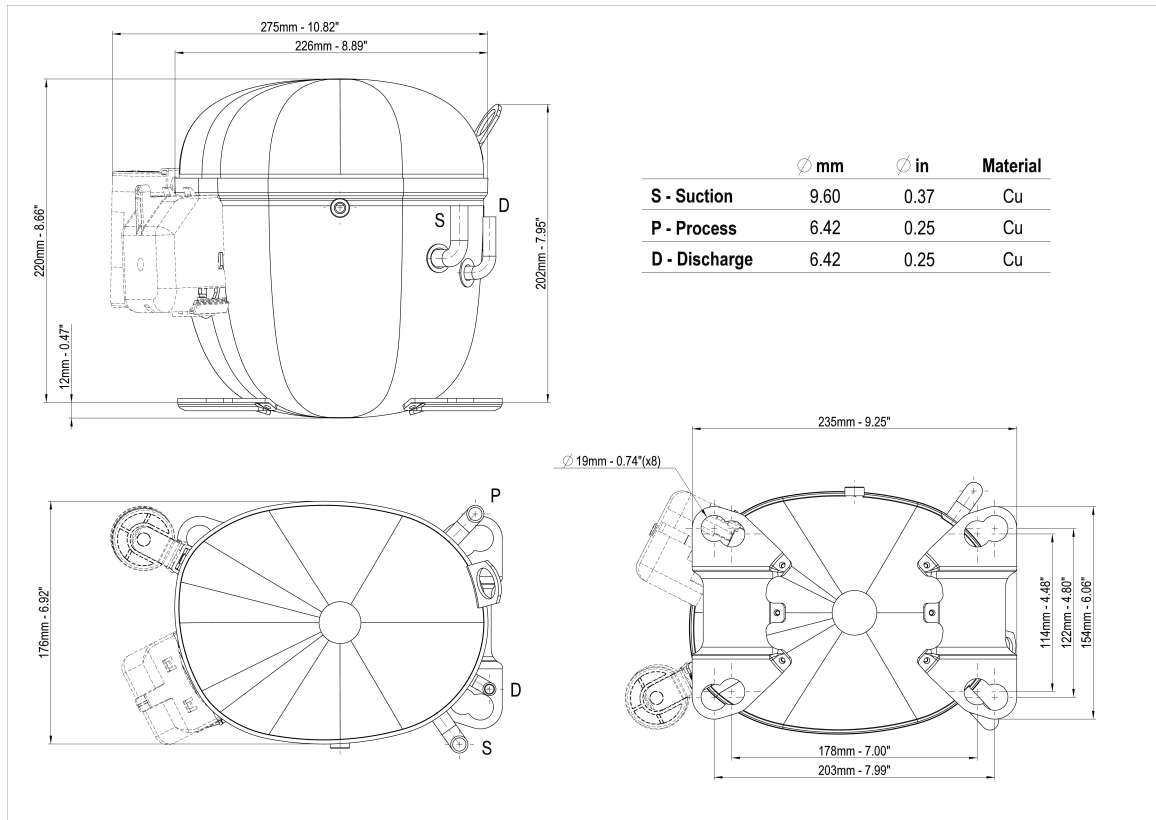
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	699	641	4.72	16.07	1.09
-25	935	755	5.13	21.60	1.24
-20	1213	871	5.59	28.16	1.39
-15	1532	989	6.09	35.77	1.55
-10	1893	1110	6.63	44.50	1.7

Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

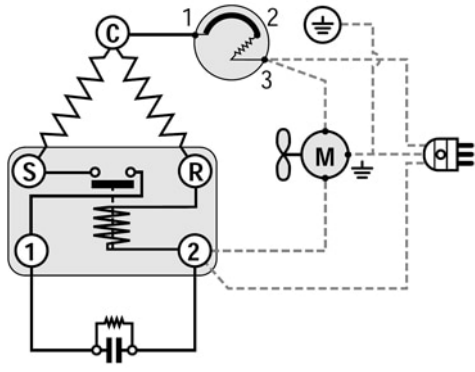
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

