



APPROVALS

 **ENGINEERING CODE**
947AM19 **APPROVED REFRIGERANT**
R-404A **POWER SUPPLY**
380-420 V 50 Hz **STANDARD CONDITIONS**
ASHRAE **APPLICATION**
LBP **COOLING CAPACITY**
1477 W **EFFICIENCY**
1.32 W/W **MOTOR TYPE**
3PHASE **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	34.4 cm ³
Compressor Cooling	Fan
Fan Air Flow	800 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1 1/2 hp
Max Condensing Pressure Operating	24.71 bar
Max Condensing Pressure Peak	27.71 bar
Power Supply	380-420 V 50 Hz / 440-480 V 60 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	3PHASE
Starting Torque	HST
Run Winding Resistance	9.04 Ω at 25° C
Locked Rotor Amperage (LRA)	20.6 A
Rated Load Amperage (RLA) at 50 Hz	3.1 A
Maximum continuous current (MCC)	4 A

Mechanical Data

Maximum Recommended Refrigerant Charge	800 g
Oil Charge	750 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	21.1 Kg
Free Internal Volume	3.9 L

Electrical Components

Description	
Motor Protection	Internal 34HM260

External Characteristics

Base Plate		Large	
Tray Holder		No	
Height		276 mm	
Connector	Internal Diameter		Shape
Suction	12.77 mm	ROTOLOCK 1"-14UNS-2A	
Discharge	8 mm	Slanted 65°	
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	1476 W	1119 W	2.37 A	34.15 kg/h	1.32 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	698	617	1.83	16.03	1.13
-35	960	756	1.96	22.09	1.27
-30	1291	896	2.11	29.81	1.44
-25	1692	1036	2.27	39.23	1.63
-20	2163	1176	2.44	50.39	1.84
-15	2703	1316	2.63	63.36	2.05
-10	3312	1456	2.83	78.18	2.28

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	822	734	1.93	18.90	1.12
-30	1150	899	2.1	26.50	1.28
-25	1543	1068	2.3	35.69	1.45
-20	2001	1240	2.52	46.52	1.61
-15	2524	1416	2.76	59.05	1.78
-10	3112	1596	3.02	73.31	1.95

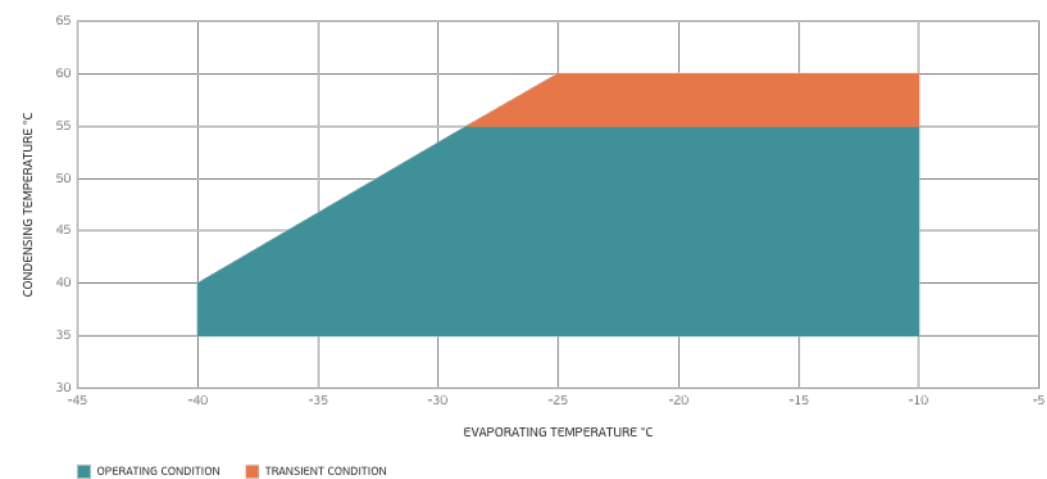
Test Condition: ASHRAE, Fan, LBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

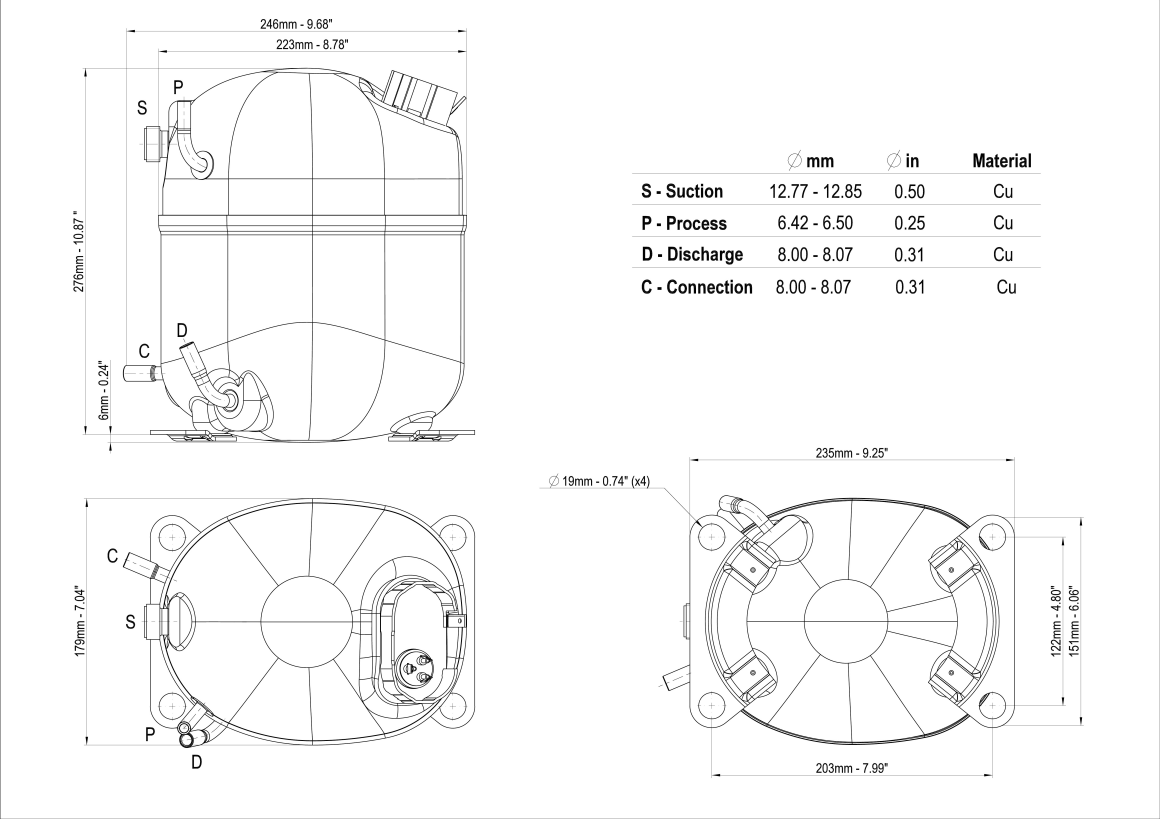
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-30	951	855	2.08	21.87	1.11
-25	1321	1049	2.29	30.49	1.26
-20	1752	1250	2.53	40.64	1.4
-15	2243	1459	2.8	52.37	1.54
-10	2796	1675	3.11	65.73	1.67

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

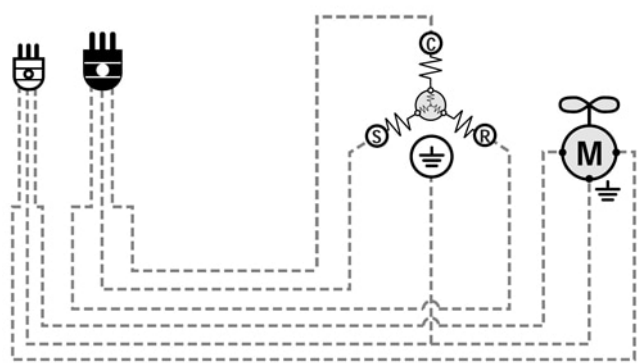
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

