




APPROVALS




 **ENGINEERING CODE**
268JA51

 **APPROVED REFRIGERANT**
R-134a

 **POWER SUPPLY**
220-240 V 50 Hz

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
HBP

 **COOLING CAPACITY**
1026 W

 **EFFICIENCY**
2.32 W/W

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	9.99 cm ³
Compressor Cooling	Fan
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/3 hp
Max Condensing Pressure Operating	13.92 bar
Max Condensing Pressure Peak	15.62 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	22.18 Ω at 25° C
Run Winding Resistance	10.05 Ω at 25° C
Locked Rotor Amperage (LRA)	15 A

Mechanical Data

Maximum Recommended Refrigerant Charge	350 g
Oil Charge	350 ml
Oil Type Configuration	Polyolester
Oil Type Viscosity	ISO22
Pressurization	Dry air charge
Weight	10.5 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Start Capacitor	64-77 7F / 330V
Motor Protection	External 3/4" T1026/G6
Starting Device	Current relay MTRP-0028-65

External Characteristics

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

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	7.20°C	1026 W	442 W	2.52 A	22.69 kg/h	2.32 W/W

Test Condition: ASHRAE, Fan, Return Gas 35°C, Evaporation 7.20°C, Condensing 54.40°C, Ambient 35°C, Liquid 46.1°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
-15	491	255	2.01	9.08	1.93
-10	621	278	2.05	11.51	2.24
-5	780	302	2.1	14.50	2.59
0	968	326	2.16	18.07	2.97
5	1184	351	2.23	22.23	3.37
10	1430	377	2.31	27.01	3.79

Test Condition: ASHRAE, Fan, HBP. 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
-15	432	271	2.04	8.62	1.59
-10	551	299	2.1	11.03	1.84
-5	695	328	2.17	13.98	2.12
0	866	358	2.25	17.49	2.42
5	1063	388	2.35	21.59	2.74
10	1286	420	2.45	26.29	3.06

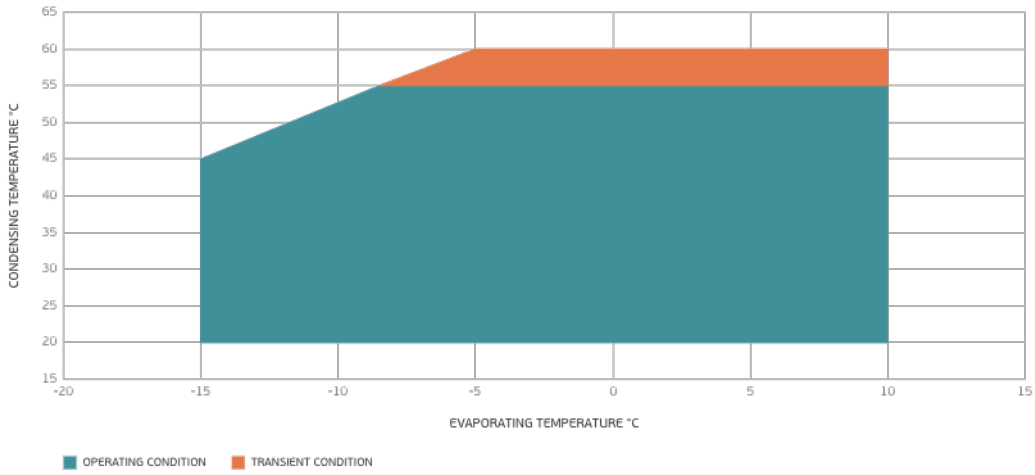
Test Condition: ASHRAE, Fan, HBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

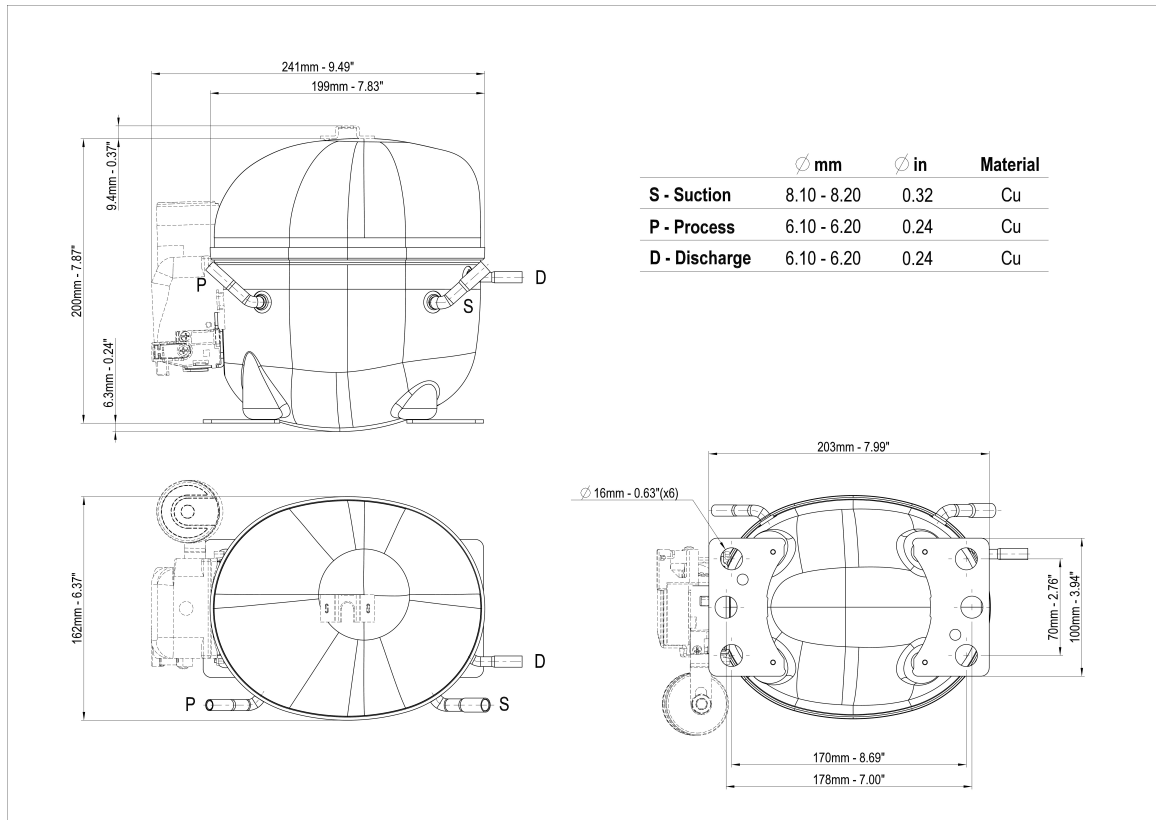
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	477	320	2.15	10.42	1.49
-5	605	355	2.24	13.28	1.7
0	758	391	2.34	16.70	1.94
5	933	428	2.47	20.68	2.18
10	1131	467	2.61	25.27	2.42

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

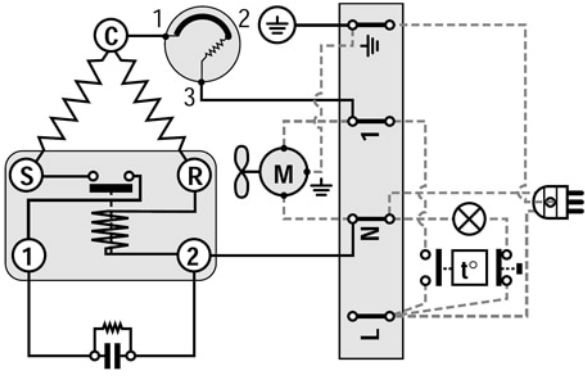
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

