



APPROVALS



 **ENGINEERING CODE**
268KA51

 **APPROVED REFRIGERANT**
R-134a

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

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
HBP

 **COOLING CAPACITY**
875 W

 **EFFICIENCY**
2.35 W/W

 **MOTOR TYPE**
CSIR

 **STARTING TORQUE**
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	8.39 cm ³
Compressor Cooling	Fan
Fan Air Flow	520 m ³ /h
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/4 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)	14 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	10.3 Kg
Free Internal Volume	2.1 L

Electrical Components

	Description
Starting Device	Current relay MTRP-0027-65
Start Capacitor	43-53 ?F / 330V
Motor Protection	External 3/4" T1026/G6

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	875 W	372 W	2.35 A	19.36 kg/h	2.35 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	423	233	2.1	7.80	1.81
-10	533	249	2.12	9.87	2.14
-5	668	265	2.15	12.42	2.52
0	828	282	2.17	15.46	2.94
5	1013	299	2.21	19.01	3.39
10	1223	317	2.24	23.10	3.86

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	368	244	2.09	7.34	1.51
-10	468	266	2.12	9.38	1.76
-5	592	287	2.16	11.89	2.06
0	738	308	2.2	14.90	2.39
5	907	330	2.24	18.41	2.75
10	1098	351	2.3	22.46	3.13

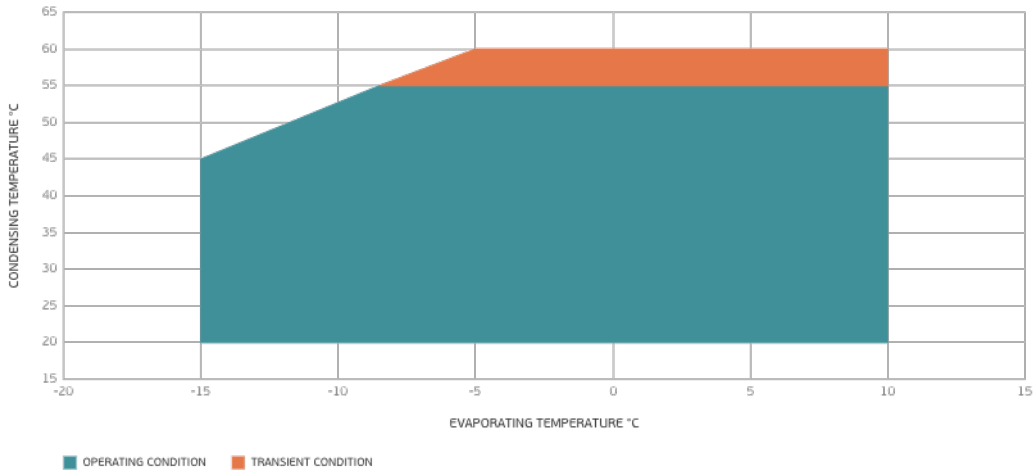
Test Condition: ASHRAE, Fan, HBP. Data in accordance to ASHRAE guideline polynomial curve.

Condensing Temperature 55°C

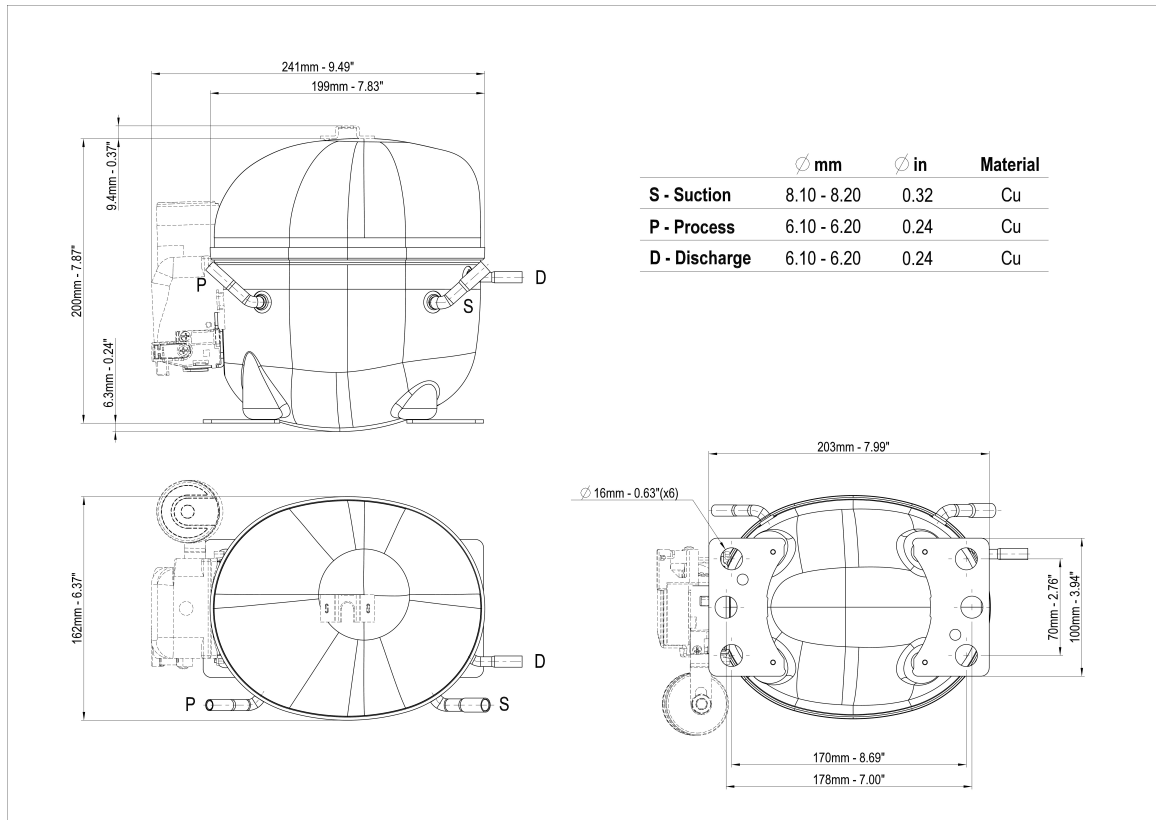
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-10	403	282	2.15	8.80	1.43
-5	513	309	2.2	11.25	1.66
0	644	336	2.26	14.18	1.91
5	795	363	2.32	17.63	2.19
10	967	390	2.4	21.60	2.48

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

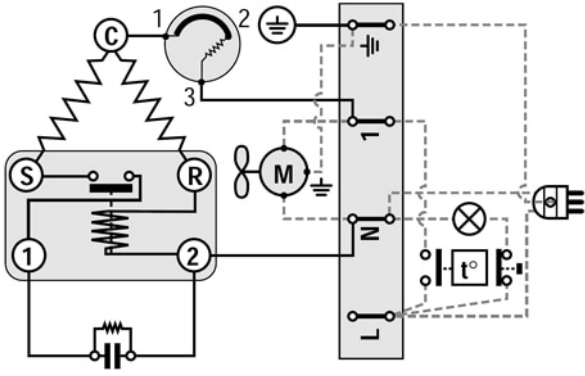
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

