MODEL
EMT6160Y

APPROVALS

ENGINEERING CODE
872MA67

APPROVED REFRIGERANT
R-600a

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
HBP

COOLING CAPACITY
568 W (HBP)

EFFICIENCY
2.1 W/W (HBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	11.14 cm^3
Compressor Cooling	Fan/NotControled/220
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/4 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-15 °C to 10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST

Mechanical Data

Oil Charge	180 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	7.8 Kg

Electrical Components

	Description
Motor Protection	T0933/G6
Starting Device	Relay | MTRP-36*
Start Capacitor	53-64 Uf / 330 V

External Characteristics

Tray Holder	Yes

Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42?/Copper
Discharge	4.86 mm	Straight/Copper
Process	6.1 mm	Slanted 42?/Copper

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Gas Flow Rate	Efficiency
50.00°C	5.00°C	568 W	270 W	7.77 kg/h	2.1 W/W

Test Condition: EN12900HBP, Fan/NotControled/220, Return Gas 20°C, Evaporation 5.00°C, Condensing 50.00°C, Ambient 35°C , Liquid 50°C, Subcooling 0K. Data are an indication of performance based simulation.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	306	165	3.59	1.85
-10	380	182	4.48	2.09
-5	467	201	5.51	2.32
0	565	222	6.70	2.54
5	676	246	8.05	2.75
10	801	272	9.57	2.94

Test Condition: EN12900HBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	269	172	3.45	1.57
-10	337	191	4.33	1.76
-5	416	212	5.35	1.96
0	505	235	6.53	2.15
5	606	260	7.88	2.34
10	720	287	9.40	2.51

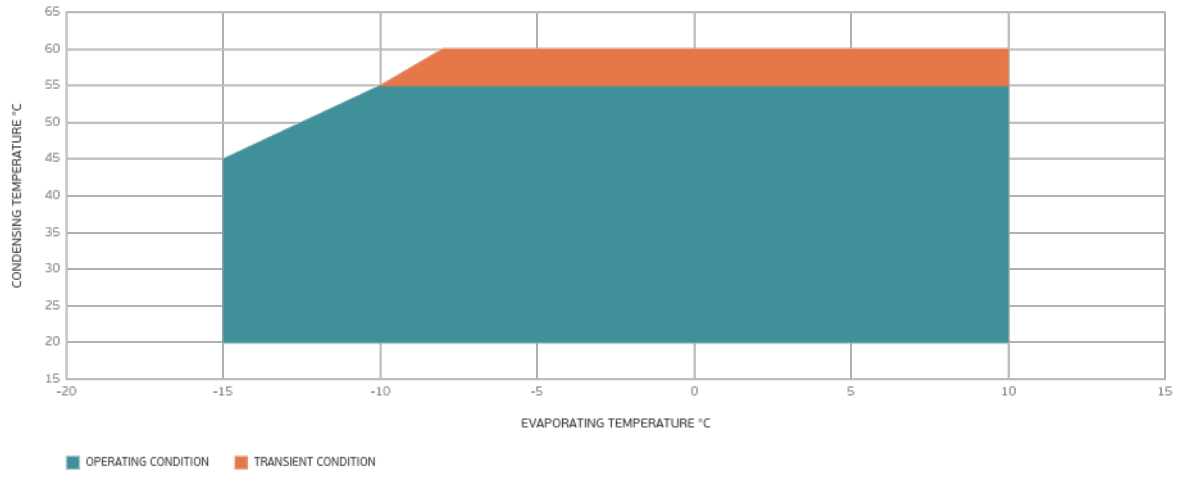
Test Condition: EN12900HBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

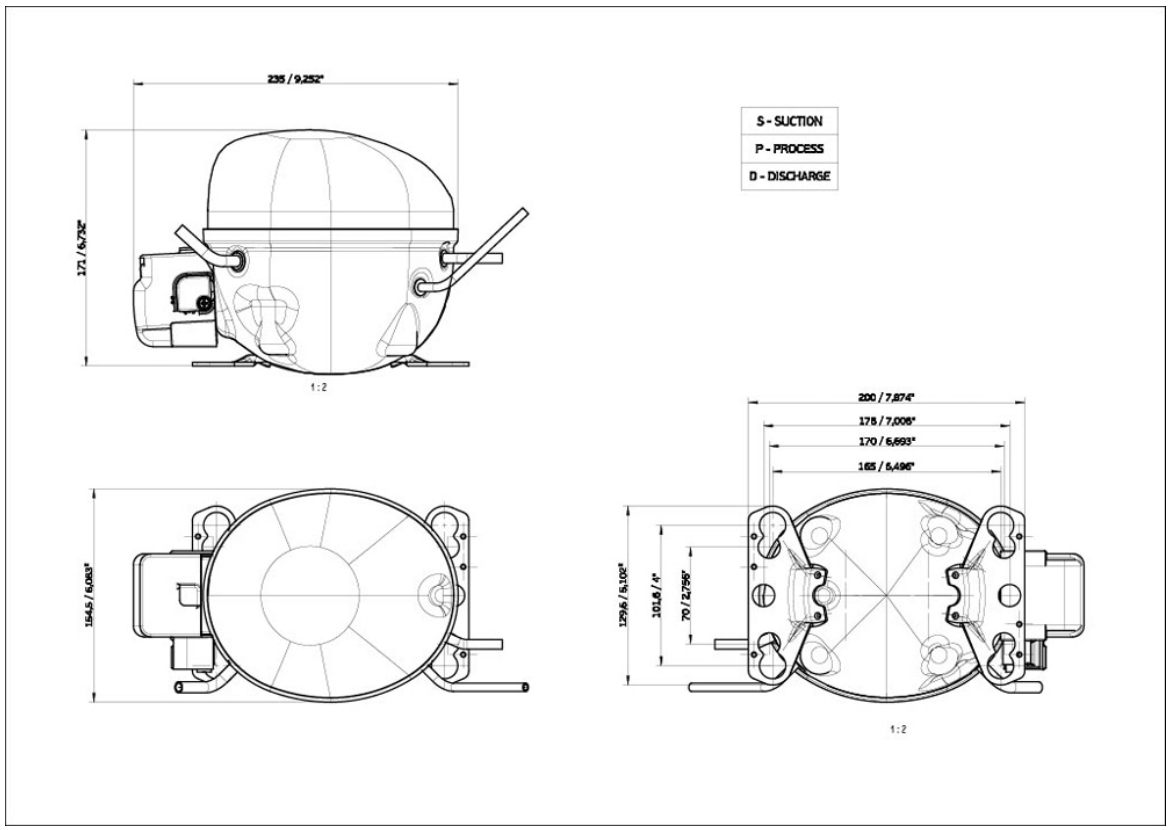
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-15	232	182	3.28	1.28
-10	293	203	4.16	1.45
-5	364	225	5.17	1.61
0	444	249	6.34	1.78
5	535	275	7.68	1.94
10	637	303	9.19	2.1

Test Condition: EN12900HBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions



Wiring Diagram

SM28-4