MODEL
EMT2121GK

APPROVALS

ENGINEERING CODE
912CA67

APPROVED REFRIGERANT
R-404A

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
EN12900

APPLICATION
LBP

COOLING CAPACITY
173 W (LBP)

EFFICIENCY
1.15 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.19 cm³
Compressor Cooling	Fan/NotControled/220
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-40 °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
Start Capacitor	43-53 Uf / 330 V
Starting Device	Relay | MTRP-34*
Motor Protection	T0827/G6

External Characteristics

Tray Holder	Yes

Connector	Internal Diameter	Shape
Suction	6.1 mm	Slanted 42?/Copper
Discharge	4.94 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
40.00°C	-35.00°C	173 W	151 W	4.64 kg/h	1.15 W/W

Test Condition: EN12900LBP, Fan/NotControled/220, Return Gas 20°C, Evaporation -35.00°C, Condensing 40.00°C, Ambient 35°C , Liquid 40°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
-40	142	135	3.60	1.05
-35	184	152	4.70	1.21
-30	237	170	6.07	1.39
-25	300	188	7.74	1.59
-20	375	207	9.74	1.81
-15	462	226	12.08	2.04
-10	561	244	14.80	2.3

Test Condition: EN12900LBP, 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
-40	118	139	3.40	0.85
-35	153	157	4.42	0.97
-30	197	178	5.71	1.1
-25	250	201	7.31	1.25
-20	314	224	9.24	1.4
-15	387	248	11.52	1.56
-10	472	272	14.18	1.74

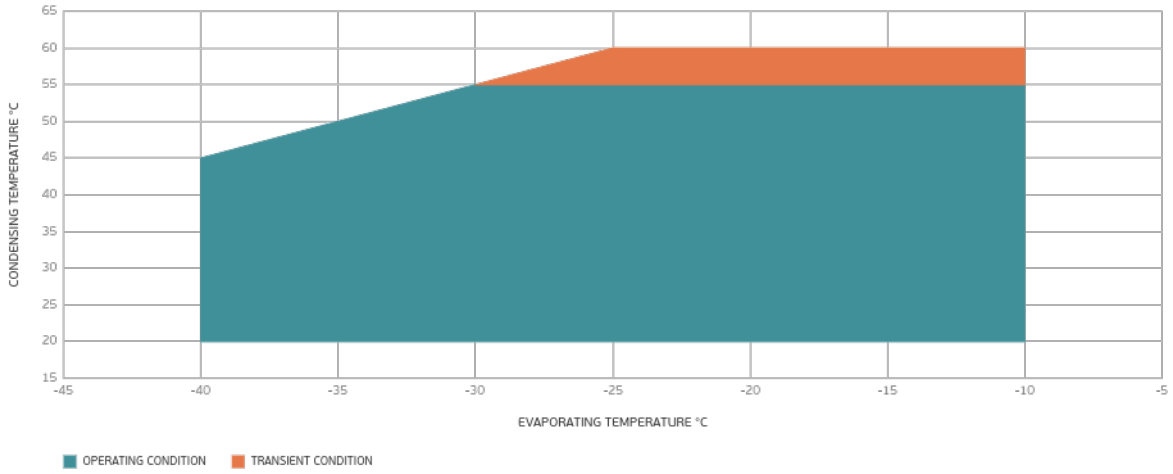
Test Condition: EN12900LBP, Fan/NotControled/220, Return Gas 20°C, Ambient 35°C , Subcooling 0K. Data are an indication of performance based simulation.

Condensing Temperature 55°C

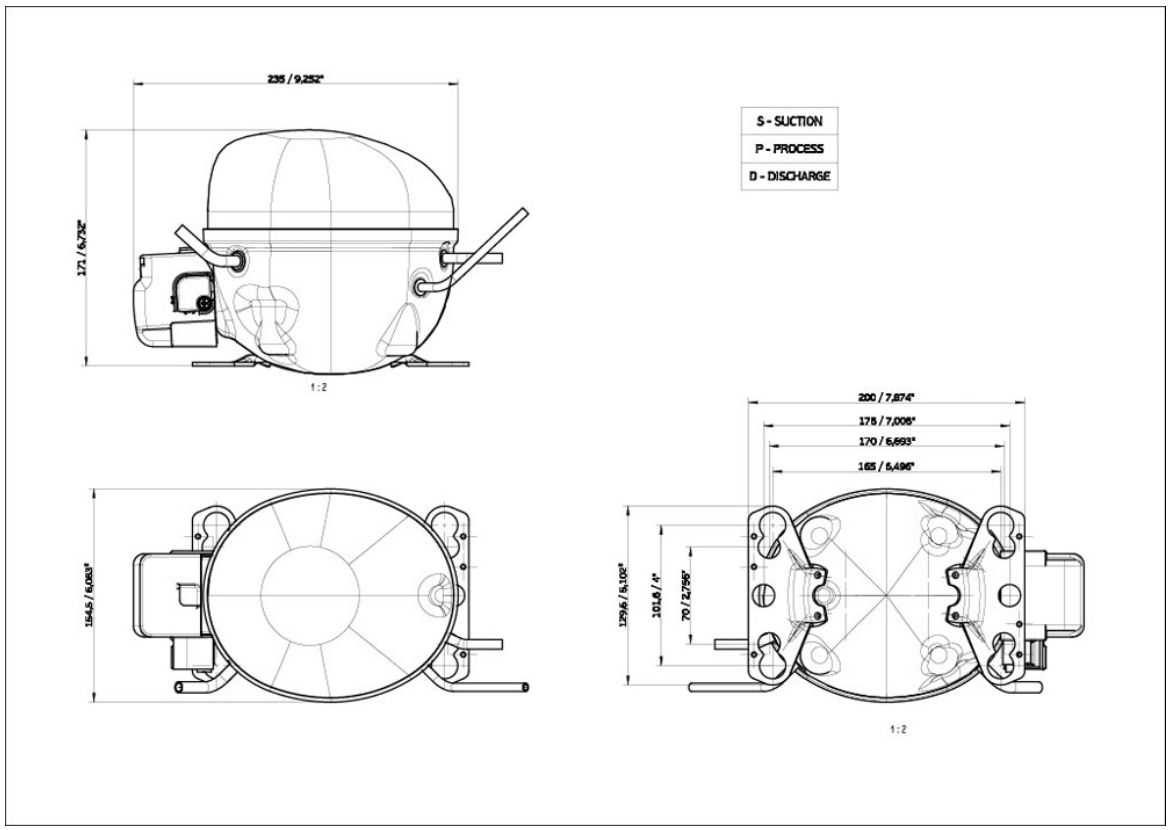
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-40	95	142	3.22	0.67
-35	122	161	4.13	0.75
-30	156	184	5.33	0.85
-25	199	209	6.84	0.95
-20	250	236	8.68	1.06
-15	310	265	10.88	1.17
-10	380	294	13.46	1.29

Test Condition: EN12900LBP, 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