MODEL
EMT2121U

APPROVALS

ENGINEERING CODE
872DA67

APPROVED REFRIGERANT
R-290

POWER SUPPLY
220-240 V 50 Hz

STANDARD CONDITIONS
ASHRAE

APPLICATION
LBP

COOLING CAPACITY
267 W (LBP)

EFFICIENCY
1.47 W/W (LBP)

MOTOR TYPE
CSIR

STARTING TORQUE
HST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.56 cm³
Compressor Cooling	Static/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
Starting Device	Relay | MTRP-0015*
Motor Protection	T0045/G6
Start Capacitor	43-53 Uf / 330 V

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	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	268 W	182 W	1.14 A	2.72 kg/h	1.47 W/W

Test Condition: ASHRAELBP32, Static/NotControled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C , Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

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	133	113	0.95	1.34	1.18
-35	174	128	0.98	1.76	1.36
-30	223	142	1.02	2.25	1.57
-25	280	155	1.06	2.84	1.81
-20	346	167	1.1	3.52	2.07
-15	422	178	1.14	4.31	2.37
-10	508	188	1.18	5.22	2.7

Test Condition: ASHRAELBP32, Static/NotControled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-40	122	115	0.95	1.23	1.06
-35	161	132	0.99	1.63	1.22
-30	208	149	1.04	2.11	1.4
-25	264	166	1.09	2.68	1.59
-20	329	183	1.15	3.35	1.8
-15	404	199	1.21	4.13	2.03
-10	489	216	1.27	5.02	2.27

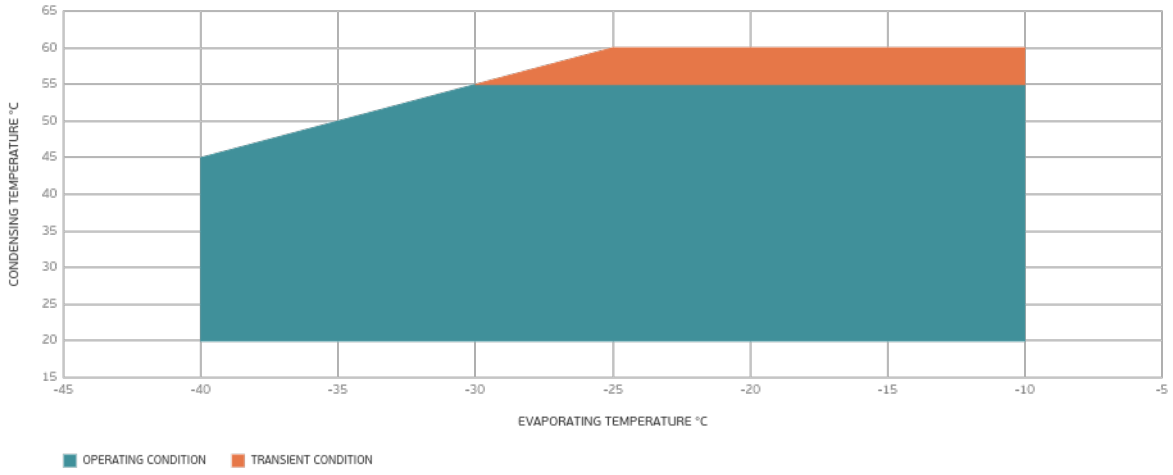
Test Condition: ASHRAELBP32, Static/NotControled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

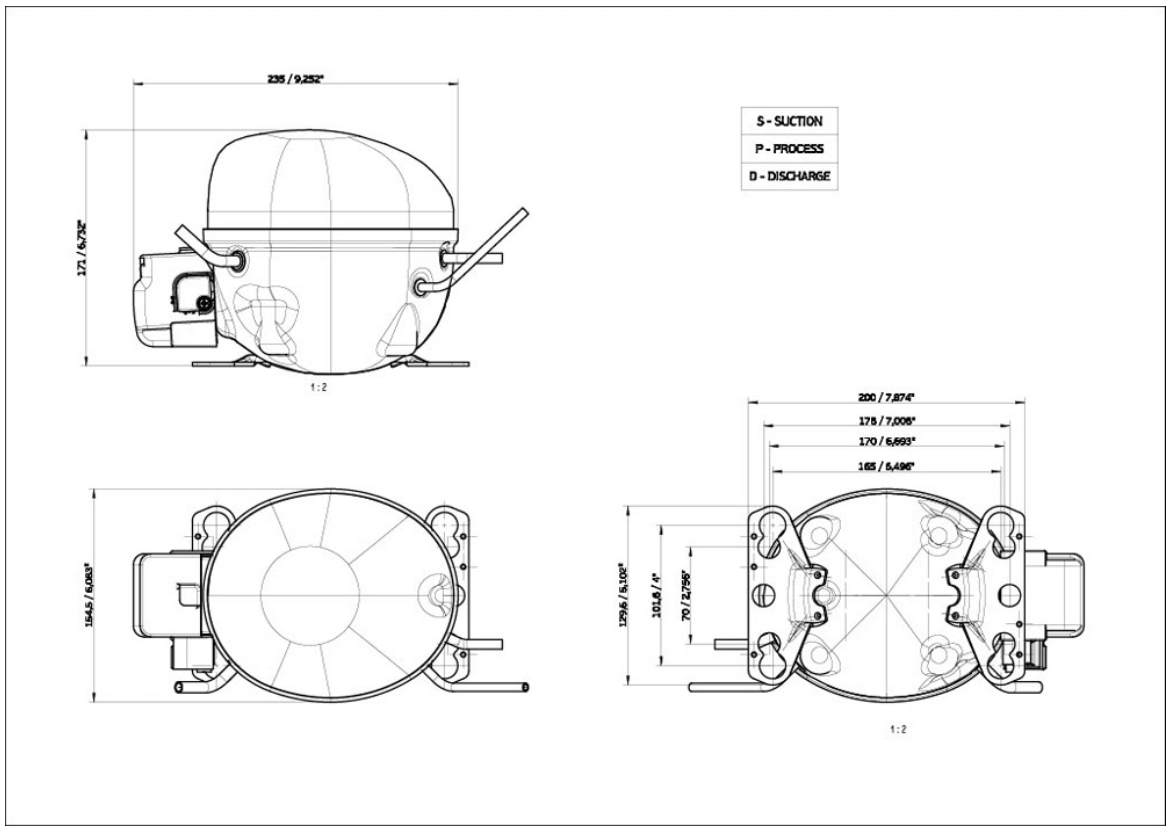
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-40	110	115	0.95	1.11	0.96
-35	147	134	1	1.49	1.1
-30	193	154	1.06	1.95	1.25
-25	247	174	1.12	2.50	1.42
-20	310	195	1.19	3.16	1.59
-15	384	216	1.27	3.92	1.78
-10	468	238	1.36	4.80	1.97

Test Condition: ASHRAELBP32, Static/NotControled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Operating Envelope



External Dimensions



Wiring Diagram

SM28-4