


MODEL

EMT6165GK
embraco
Nidec
**APPROVALS**


ENGINEERING CODE
 912GA67



APPROVED REFRIGERANT
 R-404A


POWER SUPPLY
 220-240 V 50 Hz


STANDARD CONDITIONS
 ARI 540


APPLICATION
 MBP


COOLING CAPACITY
 453 W (MBP)


EFFICIENCY
 1.53 W/W (MBP)


MOTOR TYPE
 CSIR


STARTING TORQUE
 HST
DATA**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.19 cm ³
Compressor Cooling	Fan/NotControlled/220
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/3 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-20 °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	T0571/G6
Start Capacitor	53-64 Uf / 330 V
Starting Device	Relay MTRP-38*

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
48.90°C	-6.70°C	453 W	297 W	16.85 kg/h	1.53 W/W

Test Condition: ARIMBP, Fan/NotControlled/220, Return Gas 4.4°C, Evaporation -6.70°C, Condensing 48.90°C, Ambient 35°C, Liquid 48.9°C, Subcooling OK. 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
-20	358	219	10.32	1.64
-15	443	233	12.91	1.9
-10	542	247	15.98	2.19
-5	656	265	19.62	2.48
0	786	287	23.94	2.74
5	933	319	29.02	2.93
10	1098	361	34.98	3.04

Test Condition: ARIMBP, Fan/NotControlled/220, Return Gas 4.4°C, Ambient 35°C, Subcooling OK. 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
-20	286	227	9.54	1.26
-15	358	251	12.06	1.43
-10	441	271	15.06	1.63
-5	536	291	18.63	1.84
0	645	314	22.88	2.05
5	768	343	27.89	2.24
10	907	380	33.78	2.38

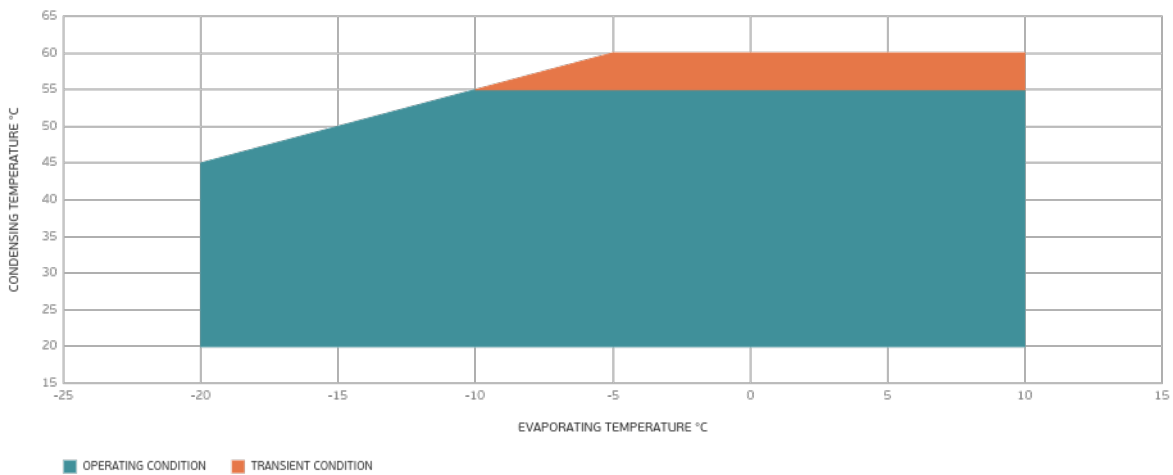
Test Condition: ARIMBP, Fan/NotControlled/220, Return Gas 4.4°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

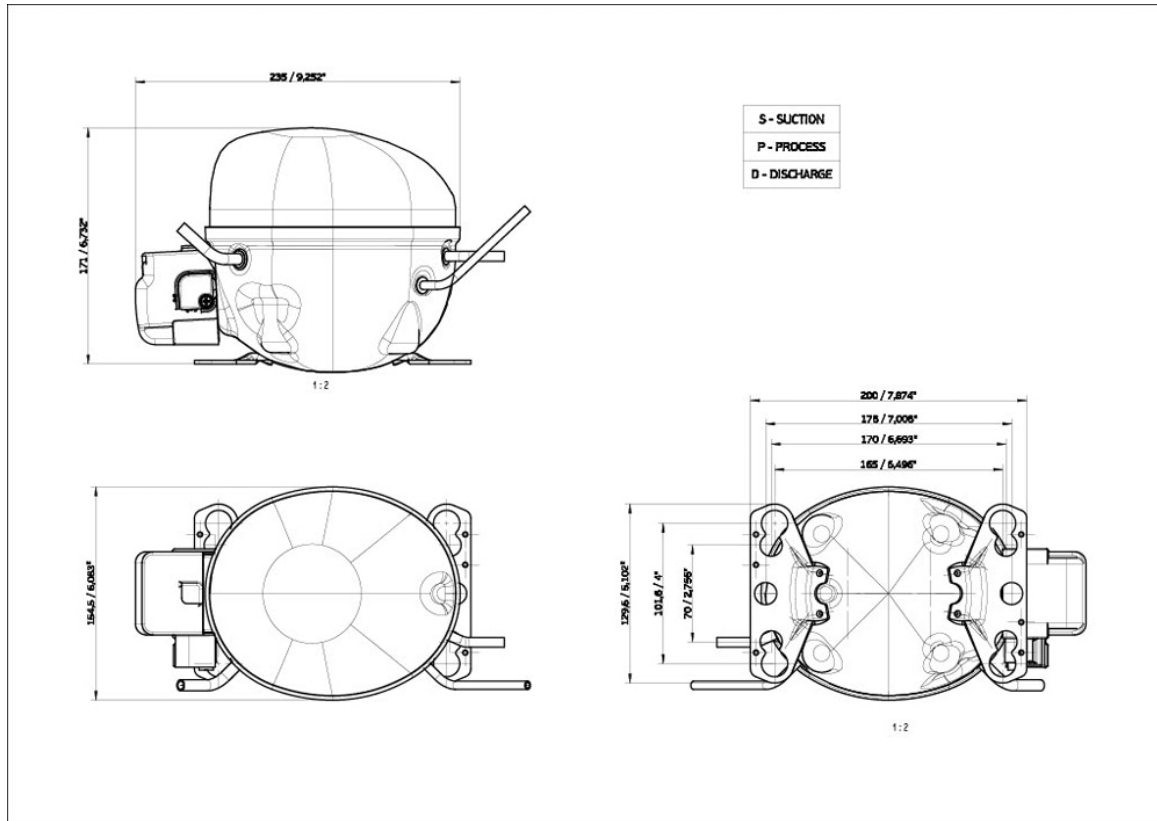
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-20	216	240	8.67	0.9
-15	273	271	11.10	1.01
-10	339	296	14.01	1.15
-5	414	318	17.49	1.3
0	500	341	21.64	1.47
5	598	366	26.56	1.64
10	710	397	32.36	1.79

Test Condition: ARIMBP, Fan/NotControlled/220, Return Gas 4.4°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

Operating Envelope



External Dimensions



Wiring Diagram

SM28-4

