



APPROVALS



 **ENGINEERING CODE**
513306231

 **APPROVED REFRIGERANT**
R-290

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

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
197 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	6.76 cm ³
Compressor Cooling	Fan/NotControlled/220
Expansion Device	Capillary Tube or Expansion Valve
Horse Power	1/2 hp
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-40 °C to -10 °C

Electrical Data

Motor type	CSIR
Starting Torque	HST
Start Winding Resistance	17 Ω at 25° C
Run Winding Resistance	10 Ω at 25° C

Mechanical Data

Oil Charge	180 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO22
Weight	8 Kg

Electrical Components

	Description
Starting Device	Relay MTRPH-0025-65*
Motor Protection	T0933/G6
Start Capacitor	72-88 Uf / 330 V

External Characteristics

Tray Holder		No
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	197 W	171 W	2.24 kg/h	1.15 W/W

Test Condition: EN12900LBP, Fan/NotControlled/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	159	155	1.75	1.03
-35	207	172	2.28	1.21
-30	265	188	2.91	1.41
-25	331	204	3.66	1.62
-20	409	220	4.53	1.86
-15	498	235	5.55	2.12
-10	600	248	6.72	2.41

Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°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
-40	134	159	1.61	0.84
-35	177	178	2.13	1
-30	228	198	2.76	1.15
-25	288	218	3.49	1.32
-20	358	239	4.36	1.5
-15	439	259	5.37	1.69
-10	530	279	6.53	1.9

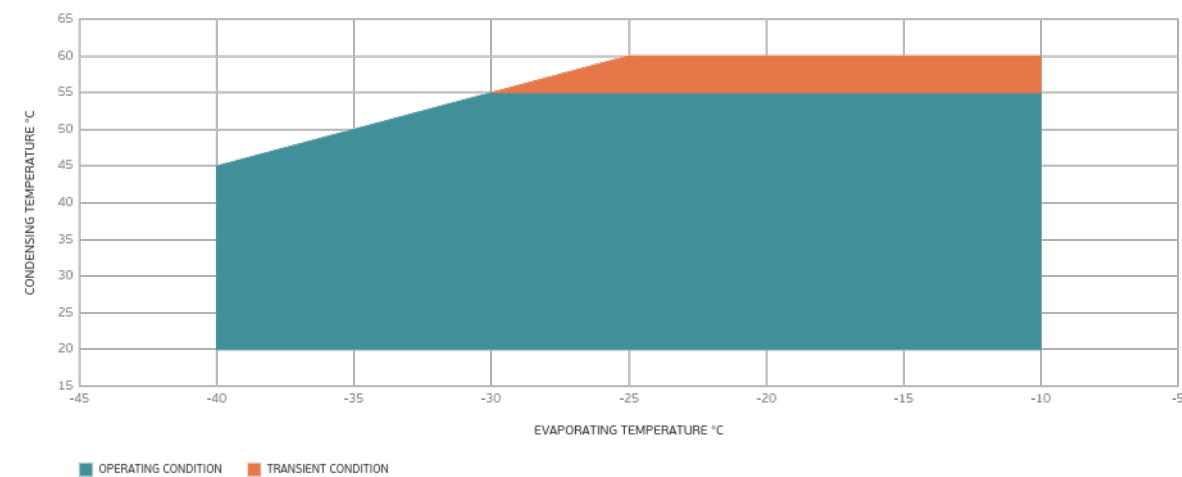
Test Condition: EN12900LBP, Fan/NotControlled/220, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data are an indication of performance based simulation.

Condensing Temperature 55°C

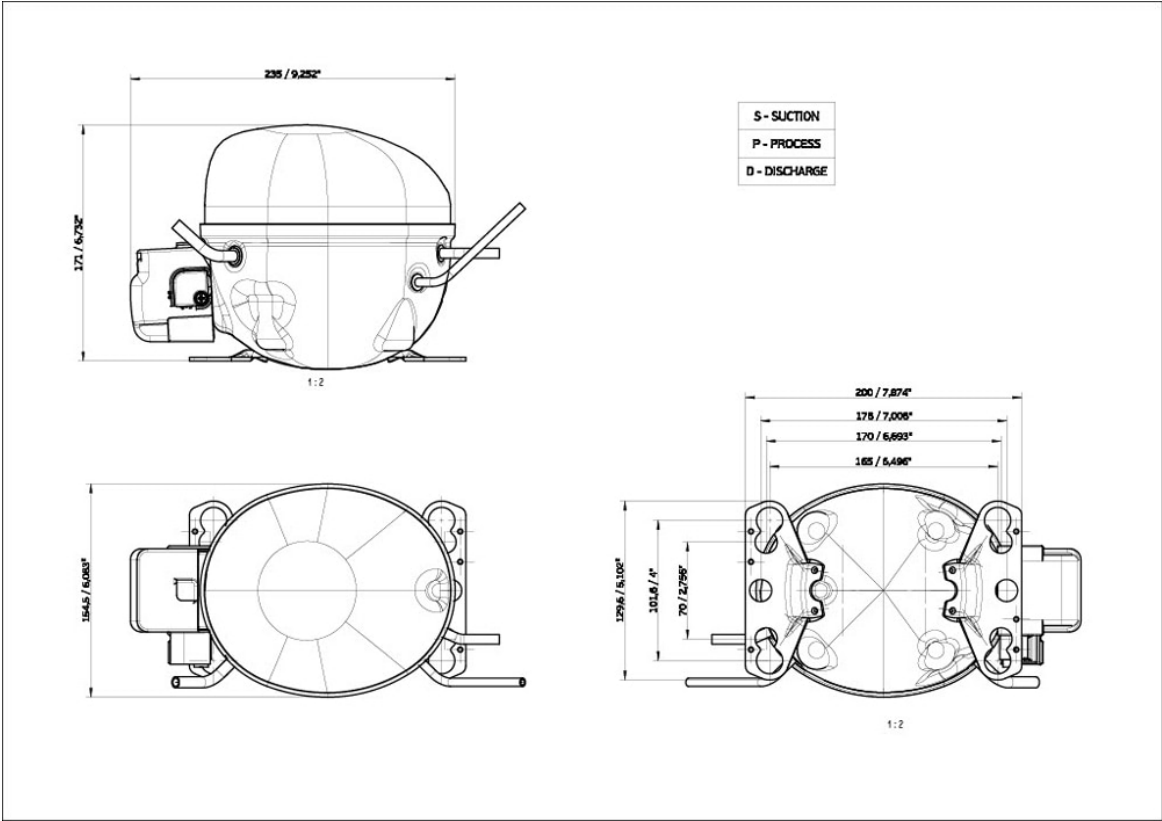
Evaporating Temperature °C	Cooling Capacity W	Power W	Gas Flow Rate kg/h	Efficiency W/W
-40	109	162	1.46	0.67
-35	147	183	1.97	0.8
-30	192	205	2.58	0.94
-25	245	228	3.31	1.07
-20	307	253	4.16	1.21
-15	378	278	5.16	1.36
-10	460	303	6.32	1.52

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

Operating Envelope



External Dimensions



Wiring Diagram

SM28-4

