



**APPROVALS**



**ENGINEERING CODE**  
912CA67

**APPROVED REFRIGERANT**  
R-404A

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

**STANDARD CONDITIONS**  
ASHRAE

**APPLICATION**  
LBP

**COOLING CAPACITY**  
305 W (LBP)

**EFFICIENCY**  
1.39 W/W (LBP)

**MOTOR TYPE**  
CSIR

**STARTING TORQUE**  
HST

**DATA**

**General Data**

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	5.19 cm <sup>3</sup>
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	-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	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	305 W	220 W	1.38 A	7.06 kg/h	1.39 W/W

Test Condition: ASHRAELBP32, Fan/NotControlled/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	150	135	1.14	3.44	1.11
-35	195	152	1.18	4.48	1.28
-30	251	170	1.23	5.79	1.47
-25	318	189	1.28	7.37	1.68
-20	397	208	1.34	9.25	1.91
-15	489	227	1.4	11.45	2.15
-10	593	245	1.47	13.99	2.42

Test Condition: ASHRAELBP32, Fan/NotControlled/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	142	139	1.14	3.25	1.02
-35	183	158	1.19	4.21	1.16
-30	236	179	1.25	5.44	1.32
-25	301	201	1.31	6.95	1.49
-20	377	225	1.39	8.77	1.68
-15	467	249	1.47	10.91	1.87
-10	569	273	1.56	13.40	2.08

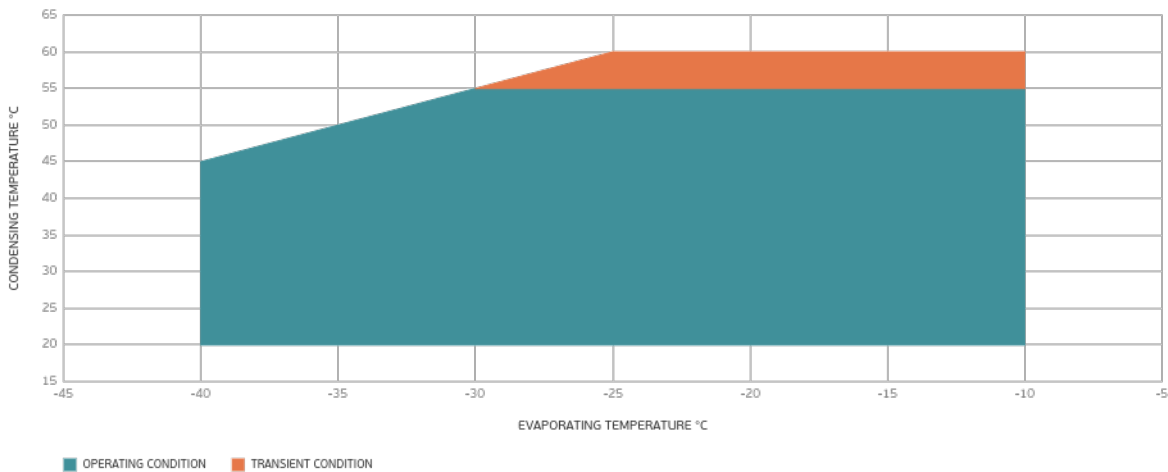
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C, Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

### Condensing Temperature 55°C

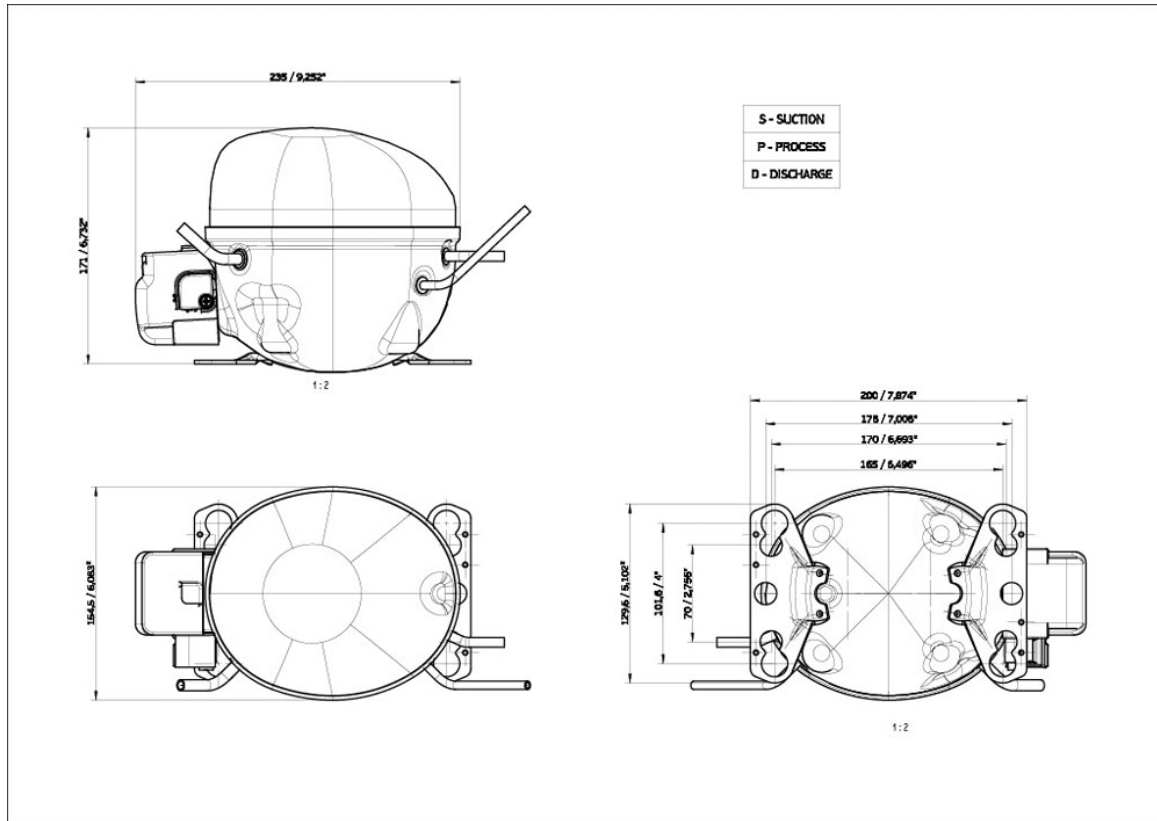
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-40	134	142	1.13	3.07	0.95
-35	172	162	1.19	3.93	1.06
-30	220	185	1.27	5.07	1.19
-25	281	210	1.35	6.50	1.34
-20	355	237	1.45	8.23	1.49
-15	441	266	1.55	10.29	1.66
-10	540	296	1.66	12.71	1.83

Test Condition: ASHRAELBP32, Fan/NotControlled/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

