

**APPROVALS**




 **ENGINEERING CODE**  
301B01101AC

 **APPROVED REFRIGERANT**  
R-404A


 **POWER SUPPLY**  
380 V 50 Hz

 **STANDARD CONDITIONS**  
EN12900

 **APPLICATION**  
MBP

 **COOLING CAPACITY**  
4402 W

 **EFFICIENCY**  
2.09 W/W

 **MOTOR TYPE**  
3 Phase

DATA

**General Data**

<b>Type</b>	Hermetic Scroll Compressor
<b>Technology Type</b>	On-Off
<b>Displacement (Swept Volume)</b>	7.3 m <sup>3</sup> /h (42 cm <sup>3</sup> /rev)
<b>Compressor Cooling</b>	Static
<b>Horse Power</b>	2 1/2 hp
<b>Power Supply</b>	380-420 V 50 Hz / 460 V 60 Hz

## Electrical Data

Motor type	3 Phase
Pole	2
Voltage working range at 50 Hz	342-462 V
Voltage working range at 60 Hz	414-506 V
Maximum Motor Temperature	130 °C
Run Winding Resistance	3.3 $\Omega$ at 25° C
Motor insulation class	B
Rated speed	2900
High Side	3.2 MPa
Low Side	2 MPa
Maximum discharge temperature	125
Pressure release valve opening range	2.76-3.10 MPa

## Mechanical Data

Maximum Recommended Refrigerant Charge	3.5 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	30.1 Kg
Free Internal Volume Low	3.8 L
Free Internal Volume High	1 L

## Electrical Components

	Description
Motor Protection	Internal Protector

## External Characteristics

<b>Base Plate Holes</b>	191x191		
<b>Base Plate Dimensions</b>	239x239		
<b>Height</b>	424 mm		
<b>Diameter</b>	168 mm		
<b>Hanger Tab</b>	1		
<b>Oil Side Glass</b>	1		
<b>Connector</b>	<b>Internal Diameter</b>	<b>Material</b>	<b>Shape</b>
<b>Suction</b>	1 1/4"-12 UNF 2A	Copper plated steel tube	Rotolock
<b>Discharge</b>	3/4"-16 UNF 2A	Copper plated steel tube	Rotolock

## PERFORMANCE

## Rated Points

Cooling Capacity	Power Input	COP	Rated Load Amps RLA	Locked Rotor Amps LRA	Maximum Operating Current MOC	Sound Power Level
4402 W	2105 W	2.09 W/W	4.7 A	45 A	6.4 A	71 dBA

Test Condition: EN12900: Te -10°C; Tc 45°C; Rg 20°C. No subcooling; Ta 35°C. Data in accordance to EN12900 guideline polynomial curve.

## Performance Curve Data - Frequency: 50Hz

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-20	3452	1610	2.14
-15	4196	1690	2.48
-10	5066	1770	2.86
-5	6082	1850	3.29
0	7262	1927	3.77
5	8625	2002	4.31
10	10190	2073	4.92

Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN12900 guideline polynomial curve.

### Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-20	3020	1918	1.57
-15	3661	2013	1.82
-10	4402	2105	2.09
-5	5262	2194	2.4
0	6259	2278	2.75
5	7413	2356	3.15
10	8742	2428	3.6
15	10266	2493	4.12

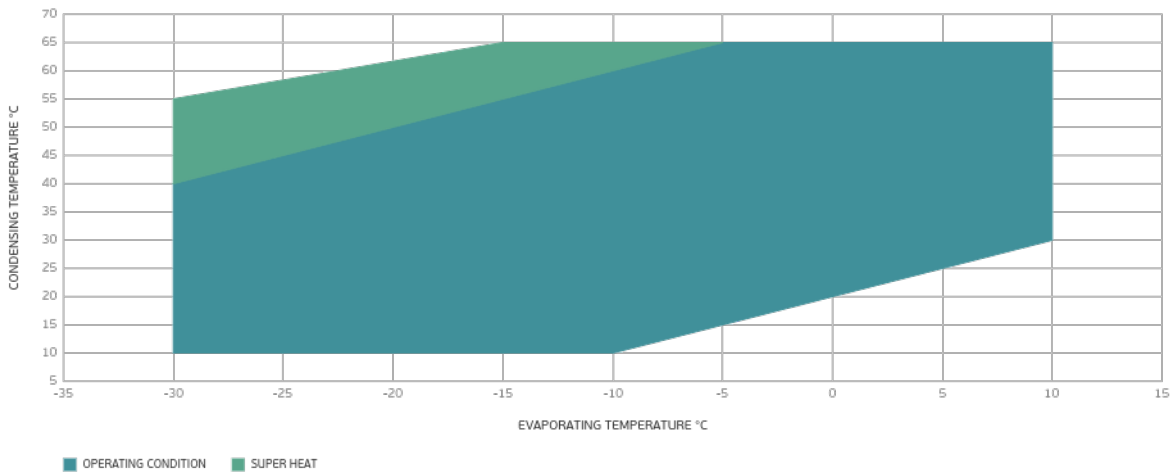
Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN12900 guideline polynomial curve.

### Condensing Temperature 55°C

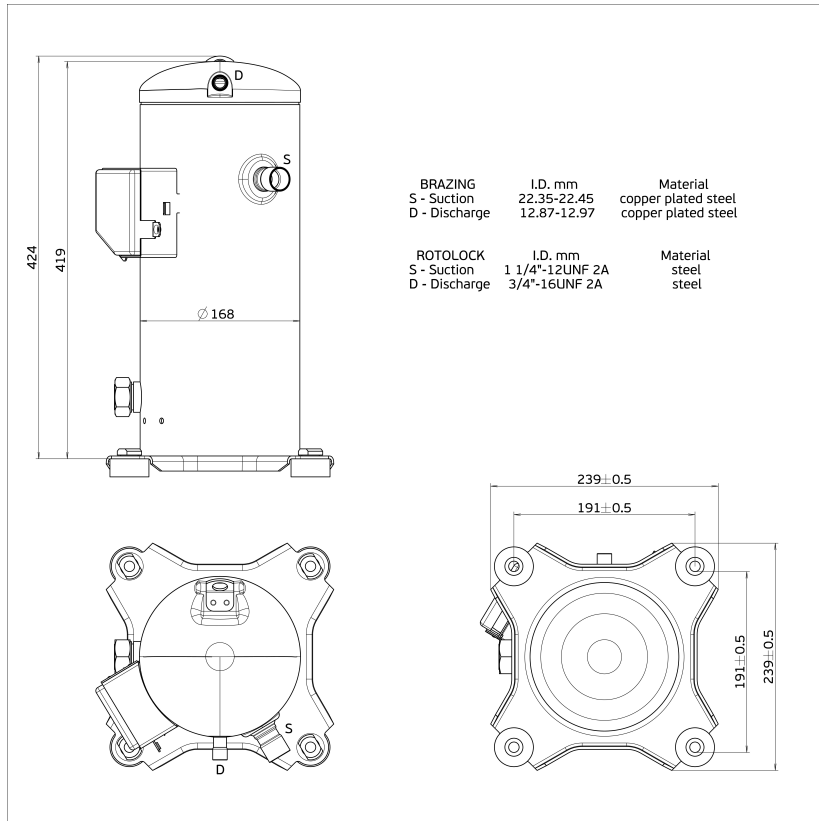
Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-20	2503	2290	1.09
-15	3041	2403	1.27
-10	3653	2511	1.45
-5	4357	2612	1.67
0	5172	2706	1.91
5	6116	2792	2.19
10	7210	2869	2.51
15	8471	2936	2.89

Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN12900 guideline polynomial curve.

### Operating Envelope



## External Dimensions



## Wiring Diagram

