



APPROVALS




 **ENGINEERING CODE**
301DO1101AC

 **APPROVED REFRIGERANT**
R-404A


 **POWER SUPPLY**
380 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
MBP

 **COOLING CAPACITY**
7167 W

 **EFFICIENCY**
2.22 W/W

 **MOTOR TYPE**
3 Phase

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	11.8 m ³ /h (67.8 cm ³ /rev)
Compressor Cooling	Static
Horse Power	4 hp
Power Supply	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	2.45 Ω 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	4.5 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	32.4 Kg
Free Internal Volume Low	3.6 L
Free Internal Volume High	1 L

Electrical Components

	Description
Motor Protection	Internal Protector

External Characteristics

Base Plate Holes	191x191		
Base Plate Dimensions	239x239		
Height	424 mm		
Diameter	168 mm		
Hanger Tab	1		
Oil Side Glass	1		
Connector	Internal Diameter	Material	Shape
Suction	1 1/4"-12 UNF 2A	Copper plated steel tube	Rotolock
Discharge	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
7167 W	3235 W	2.22 W/W	6.6 A	60 A	10.3 A	73 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	5621	2474	2.27
-15	6832	2597	2.63
-10	8249	2720	3.03
-5	9903	2842	3.48
0	11824	2961	3.99
5	14043	3076	4.57
10	16592	3185	5.21

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	4917	2948	1.67
-15	5960	3094	1.93
-10	7167	3235	2.22
-5	8567	3371	2.54
0	10191	3500	2.91
5	12070	3621	3.33
10	14234	3731	3.81
15	16716	3832	4.36

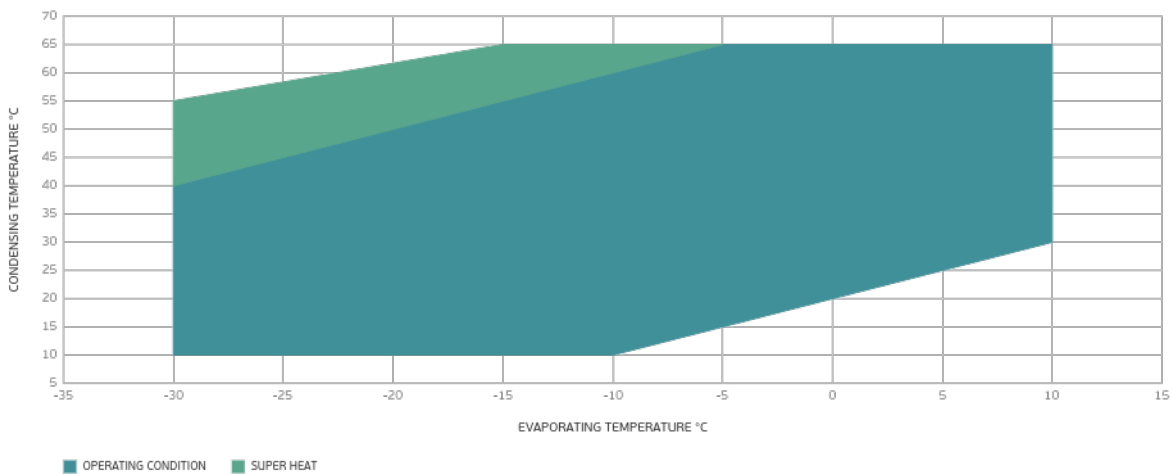
Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

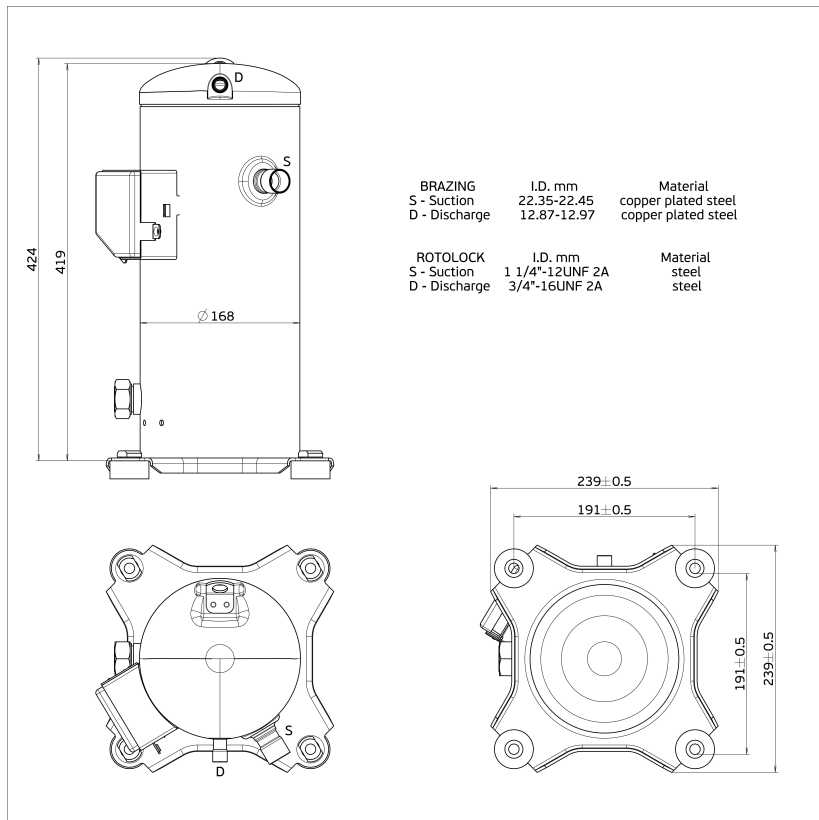
Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-20	4075	3519	1.16
-15	4952	3692	1.34
-10	5948	3858	1.54
-5	7094	4013	1.77
0	8421	4158	2.03
5	9959	4290	2.32
10	11739	4408	2.66
15	13793	4512	3.06

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

