




CE

 **ENGINEERING CODE**
301DO1101AC


 **APPROVED REFRIGERANT**
R-134a

 **POWER SUPPLY**
380 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
MBP

 **COOLING CAPACITY**
4042 W

 **EFFICIENCY**
2.13 W/W

 **MOTOR TYPE**
SCRL

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	SCRL
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	approximately 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

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
4042 W	1897 W	2.13 W/W	5.4 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
-30	1993	405	4.92
-25	2318	418	5.54
-20	2856	437	6.53
-15	3600	460	7.83
-10	4543	485	9.36
-5	5676	511	11.11
0	6994	536	13.05
5	8488	558	15.21
10	10152	576	17.62

Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-30	1777	454	3.92
-25	2039	472	4.32
-20	2509	496	5.06
-15	3179	525	6.06
-10	4042	556	7.27
-5	5091	588	8.65
0	6319	620	10.19
5	7717	650	11.88
10	9279	675	13.74

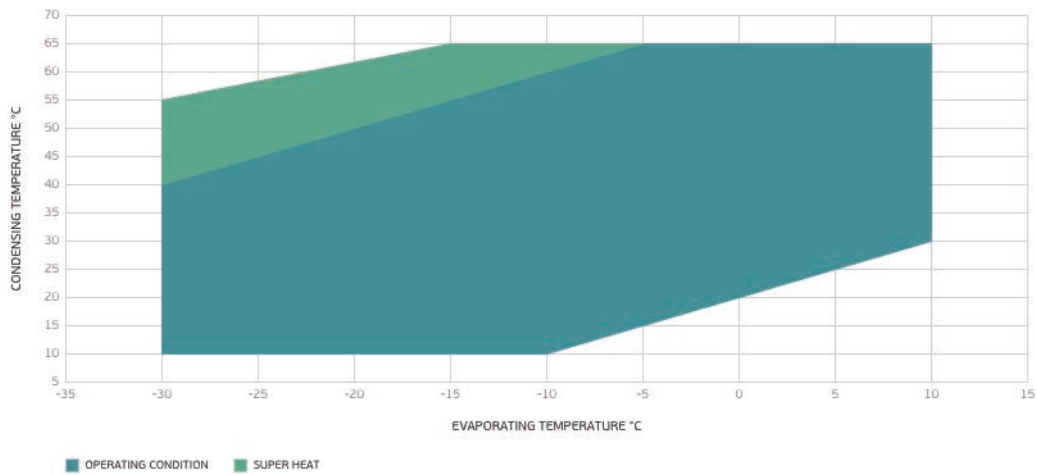
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-30	1701	518	3.29
-25	1862	540	3.45
-20	2226	569	3.91
-15	2785	603	4.62
-10	3531	639	5.52
-5	4457	677	6.58
0	5557	715	7.77
5	6822	751	9.08
10	8245	784	10.52

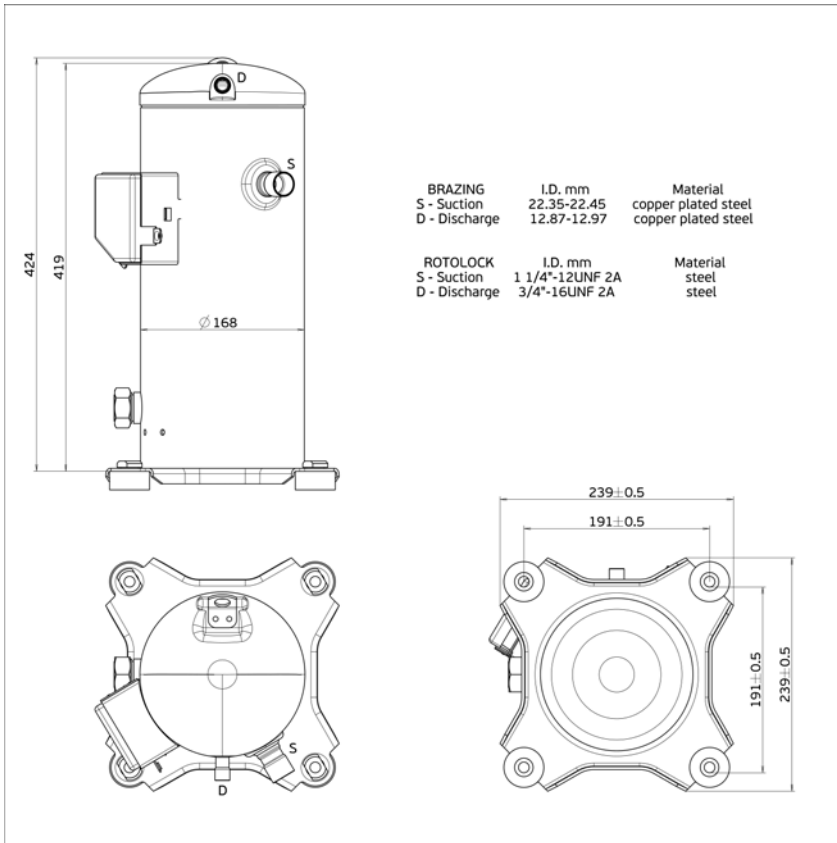
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



The envelope presented is related to R404A/R452A. For others, please contact our technical support.

External Dimensions



Wiring Diagram

