

**APPROVALS**



**ENGINEERING CODE**  
303GO1201AA

**APPROVED REFRIGERANT**  
R-452A

**POWER SUPPLY**  
380 V 50 Hz

**STANDARD CONDITIONS**  
EN12900

**APPLICATION**  
LBP

**COOLING CAPACITY**  
2413 W

**EFFICIENCY**  
1.12 W/W

**MOTOR TYPE**  
SCRL

**DATA**

**General Data**

<b>Type</b>	Hermetic Scroll Compressor
<b>Technology Type</b>	On-Off
<b>Displacement (Swept Volume)</b>	10.1 m <sup>3</sup> /h (58 cm <sup>3</sup> /rev)
<b>Compressor Cooling</b>	Static
<b>Horse Power</b>	3 1/2 hp
<b>Power Supply</b>	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	32.7 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
2413 W	2163 W	1.12 W/W	5.4 A	60 A	7.5 A	73 dBA

Test Condition: EN12900: Te -35°C; Tc 40°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
-40	2086	550	3.79
-35	2569	581	4.42
-30	3160	614	5.14
-25	3877	649	5.97
-20	4738	685	6.91
-15	5764	722	7.98
-10	6973	758	9.19
-5	8384	794	10.56
0	10016	828	12.1

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

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1819	661	2.75
-35	2250	695	3.24
-30	2776	732	3.79
-25	3413	772	4.42
-20	4182	813	5.14
-15	5101	855	5.96
-10	6190	899	6.89
-5	7466	942	7.93
0	8950	985	9.09

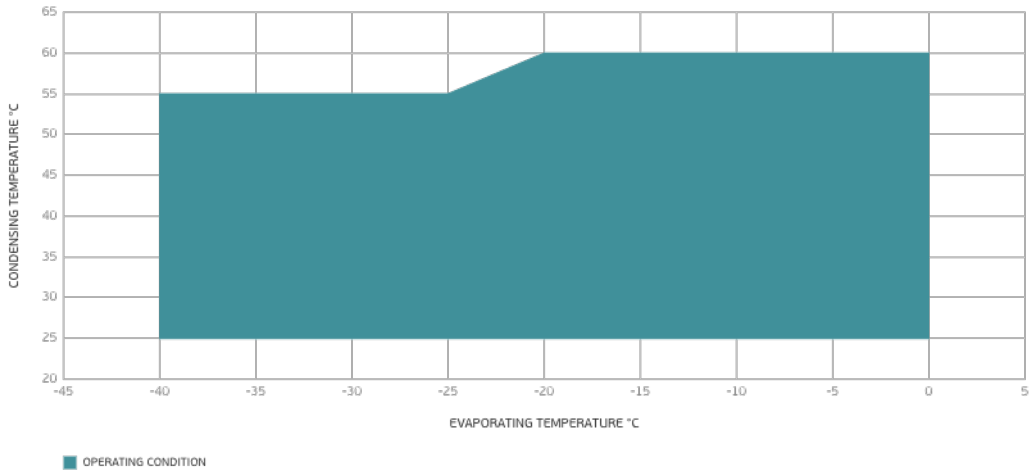
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1593	823	1.94
-35	1935	856	2.26
-30	2357	894	2.64
-25	2877	935	3.08
-20	3516	979	3.59
-15	4290	1025	4.19
-10	5221	1072	4.87
-5	6325	1120	5.65
0	7624	1169	6.52

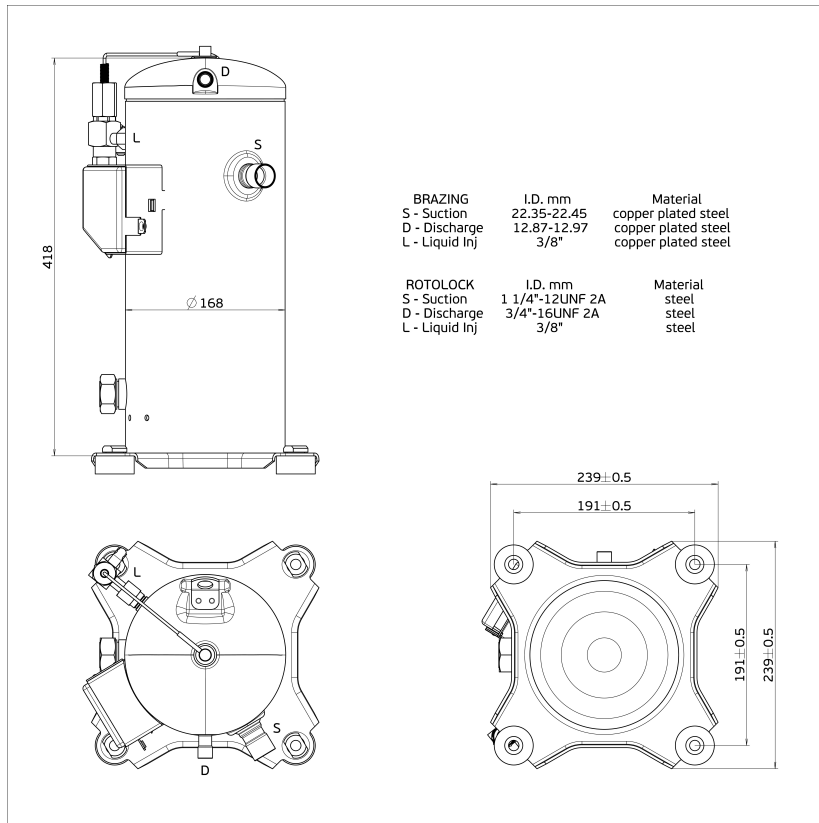
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

## Operating Envelope



The envelope presented is related to R404A/R452A/R449A. For others, please contact our technical support.

## External Dimensions



Wiring Diagram

