


**APPROVALS**



 **ENGINEERING CODE**  
303EO1201AA


 **APPROVED REFRIGERANT**  
R-452A

 **POWER SUPPLY**  
380 V 50 Hz

 **STANDARD CONDITIONS**  
EN12900

 **APPLICATION**  
LBP

 **COOLING CAPACITY**  
3340 W

 **EFFICIENCY**  
1.26 W/W

 **MOTOR TYPE**  
SCRL

DATA

**General Data**

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	14.5 m <sup>3</sup> /h (83.3 cm <sup>3</sup> /rev)
Compressor Cooling	Static
Horse Power	5 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	32.7 Kg
Free Internal Volume Low	3.6 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
3340 W	2643 W	1.26 W/W	6.1 A	60 A	10.3 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	2887	672	4.3
-35	3557	710	5.01
-30	4374	751	5.83
-25	5366	793	6.76
-20	6559	838	7.83
-15	7979	882	9.04
-10	9652	927	10.42
-5	11605	970	11.96
0	13864	1012	13.7

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	2517	808	3.11
-35	3115	849	3.67
-30	3842	894	4.3
-25	4725	943	5.01
-20	5789	993	5.83
-15	7061	1045	6.76
-10	8568	1098	7.8
-5	10335	1151	8.98
0	12389	1203	10.3

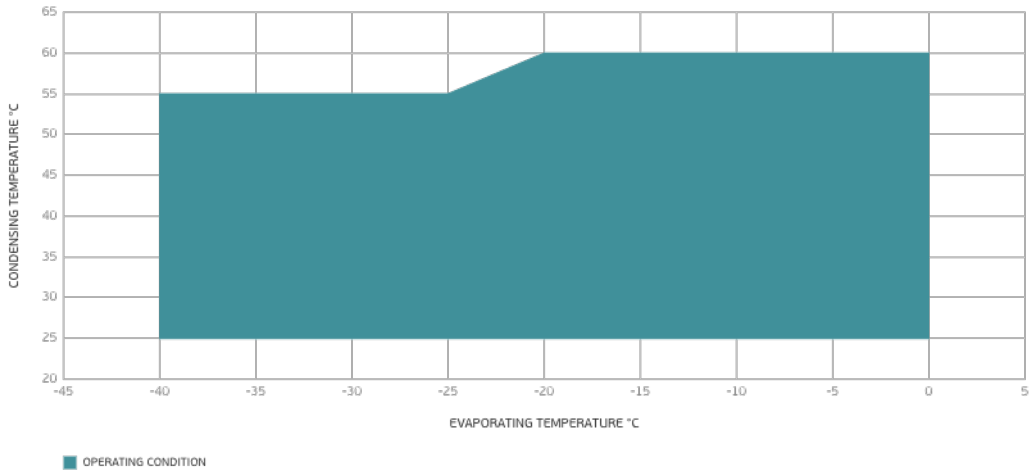
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	2204	1005	2.19
-35	2678	1046	2.56
-30	3262	1092	2.99
-25	3983	1142	3.49
-20	4866	1196	4.07
-15	5938	1252	4.74
-10	7226	1310	5.52
-5	8755	1369	6.4
0	10553	1428	7.39

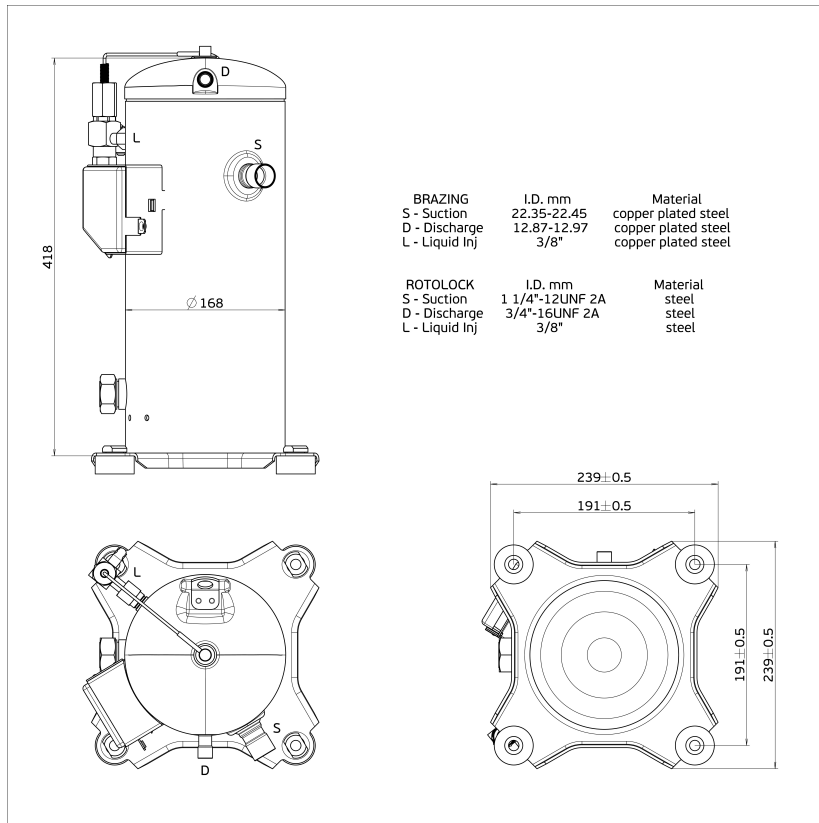
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

## Operating Envelope



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

## External Dimensions



Wiring Diagram

