




CE


 **ENGINEERING CODE**  
301AC1104AC

 **APPROVED REFRIGERANT**  
R-134a

 **POWER SUPPLY**  
220 V 50 Hz

 **STANDARD CONDITIONS**  
EN12900

 **APPLICATION**  
MBP

 **COOLING CAPACITY**  
2080 W

 **EFFICIENCY**  
1.87 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>	5.8 m <sup>3</sup> /h (33.3 cm <sup>3</sup> /rev)
<b>Compressor Cooling</b>	Static
<b>Horse Power</b>	2 hp
<b>Power Supply</b>	220 V 50 Hz

## Electrical Data

Motor type	SCRL
Pole	2
Voltage working range at 50 Hz	198-242 V
Maximum Motor Temperature	130 °C
Start Winding Resistance	1.4 $\Omega$ at 25° C
Run Winding Resistance	0.7 $\Omega$ at 25° C
Motor insulation class	B
Rated speed	approximately 2900
High Side	3.2 MPa
Low Side	2 MPa
Maximum discharge temperature	125

## Mechanical Data

Maximum Recommended Refrigerant Charge	2.8 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	33.5 Kg
Free Internal Volume Low	3.6 L
Free Internal Volume High	1 L

## Electrical Components

	Description
Starting Device	Potential Relay   HLR3800-3E3D
Start Capacitor	160 uF (330V)
Run Capacitor	60 uF (450V)

## 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
2080 W	1112 W	1.87 W/W	5.3 A	76 A	16.2 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
-30	1025	237	4.32
-25	1193	245	4.86
-20	1469	256	5.73
-15	1852	270	6.86
-10	2337	285	8.21
-5	2920	300	9.74
0	3598	314	11.45
5	4367	327	13.34
10	5223	338	15.46

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	914	266	3.44
-25	1049	277	3.79
-20	1291	291	4.44
-15	1636	308	5.32
-10	2080	326	6.38
-5	2619	345	7.59
0	3251	364	8.94
5	3970	381	10.42
10	4774	396	12.05

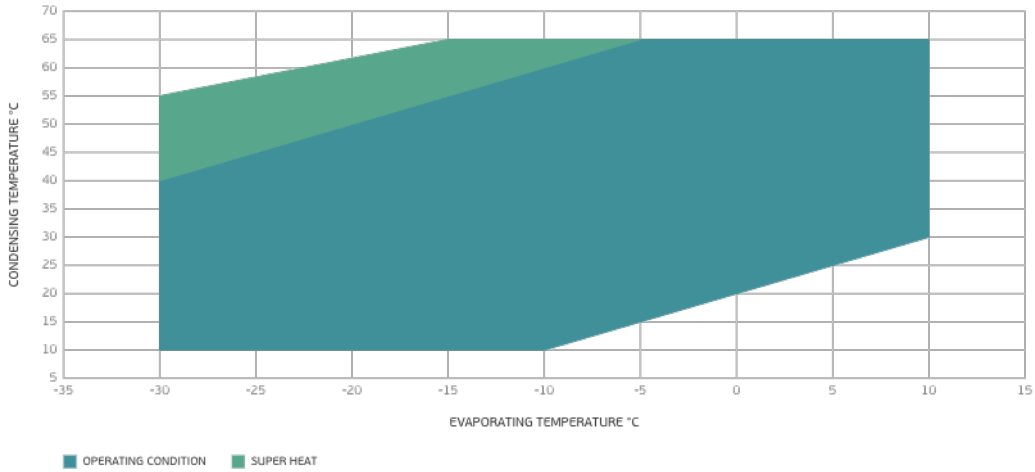
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-30	875	304	2.88
-25	958	317	3.03
-20	1145	334	3.43
-15	1433	353	4.05
-10	1816	375	4.85
-5	2293	397	5.77
0	2859	419	6.81
5	3510	441	7.96
10	4242	460	9.22

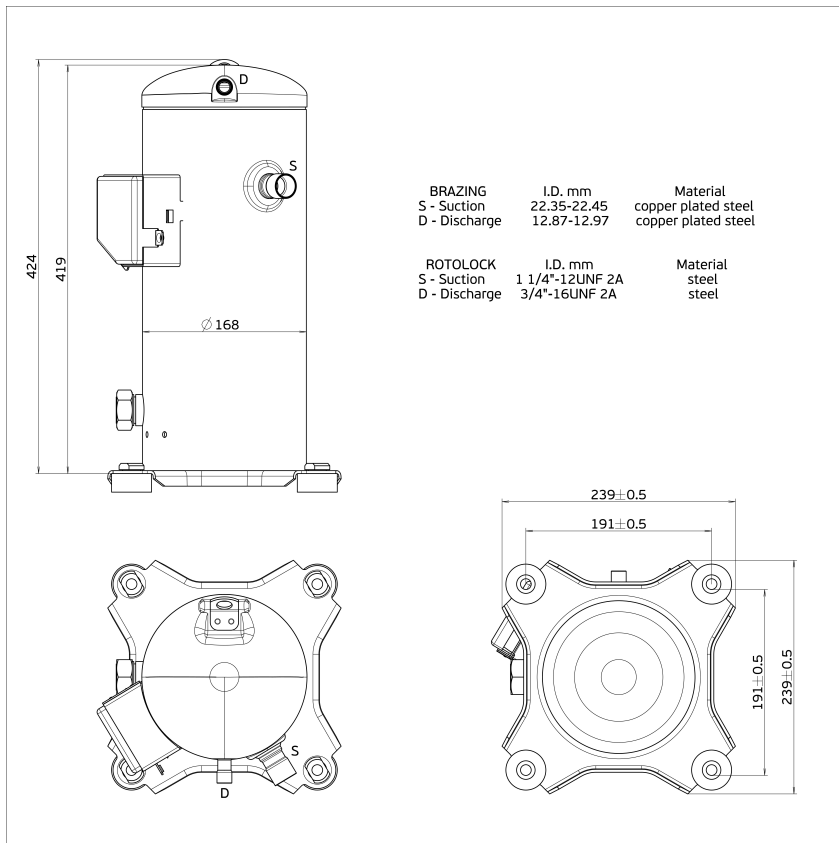
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

## Operating Envelope



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

## External Dimensions



Wiring Diagram

