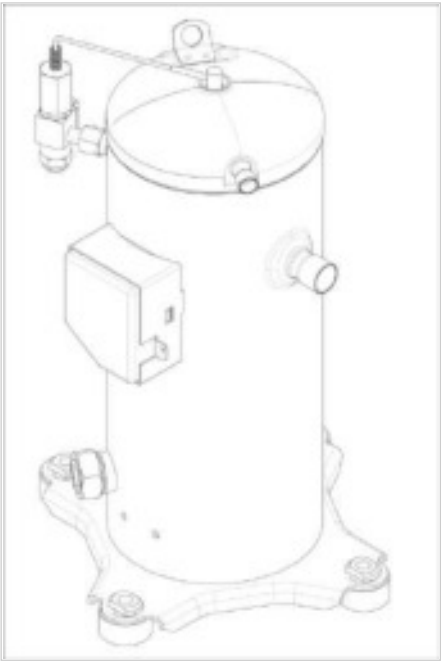




APPROVALS



- **ENGINEERING CODE**
303CC1204AC
- **APPROVED REFRIGERANT**
R-404A
- **POWER SUPPLY**
220 V 50 Hz
- **STANDARD CONDITIONS**
EN12900
- **APPLICATION**
LBP
- **COOLING CAPACITY**
1890 W
- **EFFICIENCY**
1.07 W/W
- **MOTOR TYPE**
SCRL

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	8.1 m³/h (46.6 cm³/rev)
Compressor Cooling	Static
Horse Power	3 hp
Power Supply	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 Ω at 25° C
Run Winding Resistance	0.7 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

Mechanical Data

Maximum Recommended Refrigerant Charge	3.5 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	34 Kg
Free Internal Volume Low	3.6 L
Free Internal Volume High	1 L

Electrical Components

Description	
Starting Device	Potential Relay HLR3800-3E3D
Motor Protection	Internal Protector
Start Capacitor	160 uF (330V)
Run Capacitor	60 uF (450V)
CSR Box	yes

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
1890 W	1762 W	1.07 W/W	8.4 A	76 A	16.2 A	71 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	1617	1532	1.06
-35	2027	1620	1.25
-30	2529	1714	1.48
-25	3128	1812	1.73
-20	3830	1916	2
-15	4639	2022	2.29
-10	5562	2133	2.61
-5	6603	2246	2.94
0	7769	2362	3.29

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	1394	1836	0.76
-35	1748	1931	0.91
-30	2180	2032	1.07
-25	2695	2139	1.26
-20	3299	2251	1.47
-15	3996	2368	1.69
-10	4793	2489	1.93
-5	5695	2613	2.18
0	6706	2741	2.45

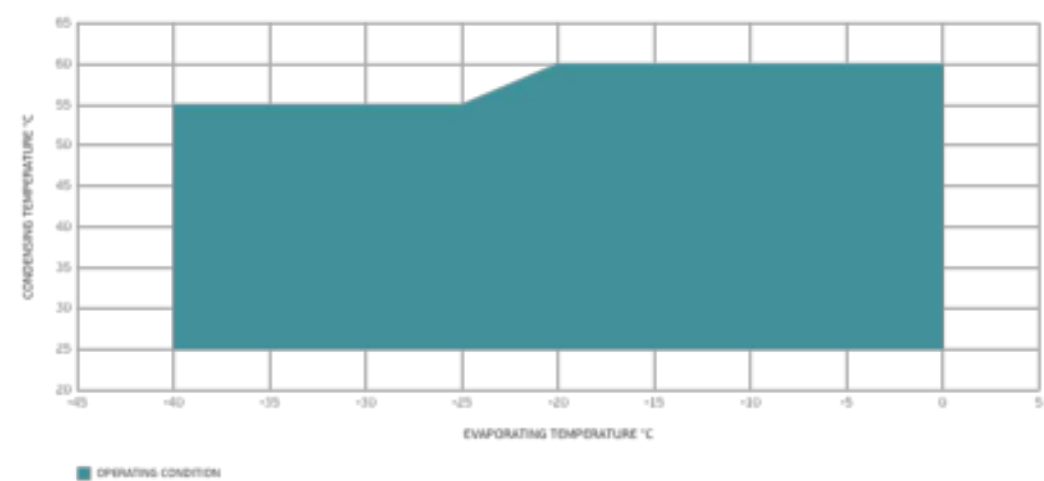
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1199	2312	0.52
-35	1479	2407	0.61
-30	1824	2509	0.73
-25	2238	2617	0.85
-20	2726	2732	1
-15	3294	2852	1.16
-10	3948	2977	1.33
-5	4693	3106	1.51
0	5534	3240	1.71

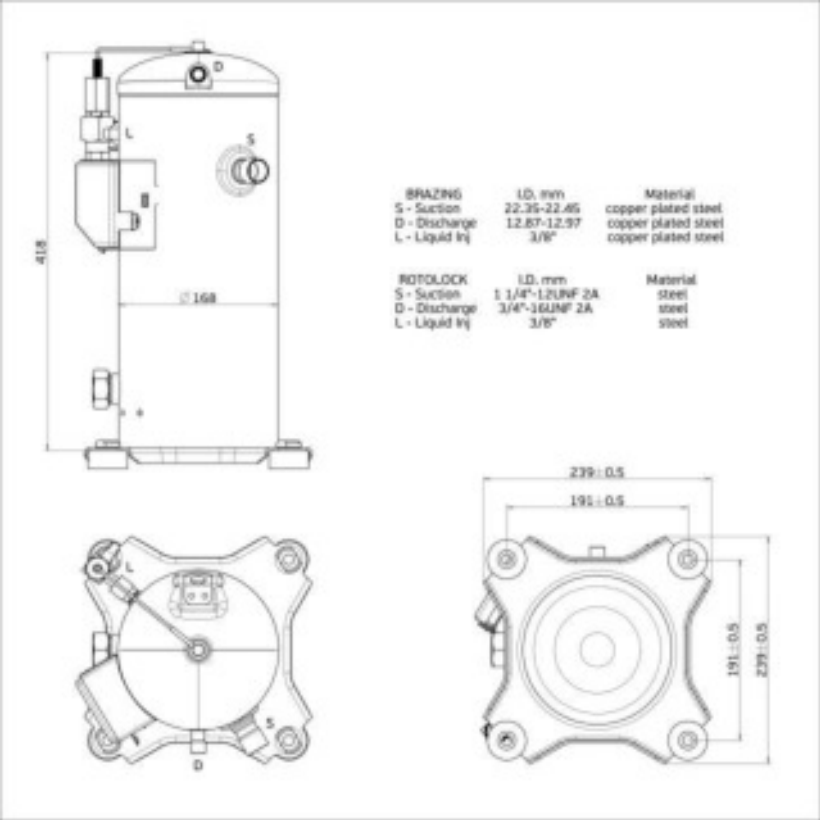
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



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

External Dimensions



Wiring Diagram

