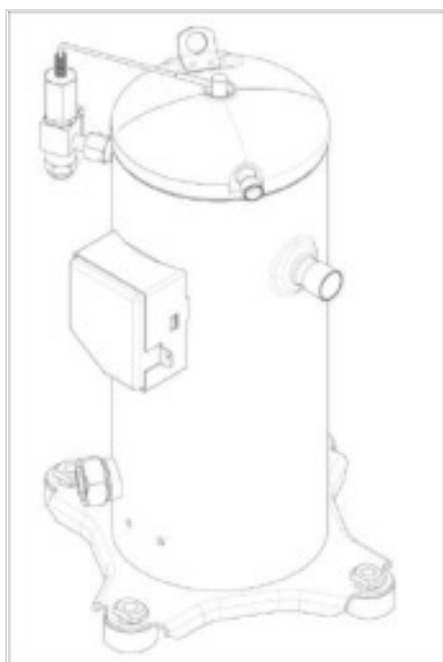




APPROVALS



ENGINEERING CODE
303DC1204AC



APPROVED REFRIGERANT
R-404A



POWER SUPPLY
220 V 50 Hz



STANDARD CONDITIONS
EN12900



APPLICATION
LBP



COOLING CAPACITY
2859 W



EFFICIENCY
1.18 W/W



MOTOR TYPE
SCRL

DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	11.8 m³/h (67.8 cm³/rev)
Compressor Cooling	Static
Horse Power	4 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	1.3 Ω at 25° C
Run Winding Resistance	0.5 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	4.5 Kg
Oil Type	POE 32
Oil Initial Volume	1.4 L
Oil Recharge Volume	1.25 L
Oil Circulation	<1 %
Weight	35.2 Kg
Free Internal Volume Low	3.2 L
Free Internal Volume High	1 L

Electrical Components

Description	
Motor Protection	Internal Protector
CSR Box	yes
Starting Device	Potential Relay HLR3800-3H3D
Start Capacitor	250 uF (330V)
Run Capacitor	80 uF (450V)

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
2859 W	2427 W	1.18 W/W	11.6 A	109 A	23.3 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	2447	2110	1.16
-35	3067	2231	1.37
-30	3826	2360	1.62
-25	4732	2496	1.9
-20	5793	2638	2.2
-15	7018	2785	2.52
-10	8414	2937	2.86
-5	9990	3093	3.23
0	11753	3253	3.61

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	2110	2529	0.83
-35	2645	2660	0.99
-30	3298	2799	1.18
-25	4077	2946	1.38
-20	4990	3100	1.61
-15	6045	3261	1.85
-10	7251	3427	2.12
-5	8615	3599	2.39
0	10146	3775	2.69

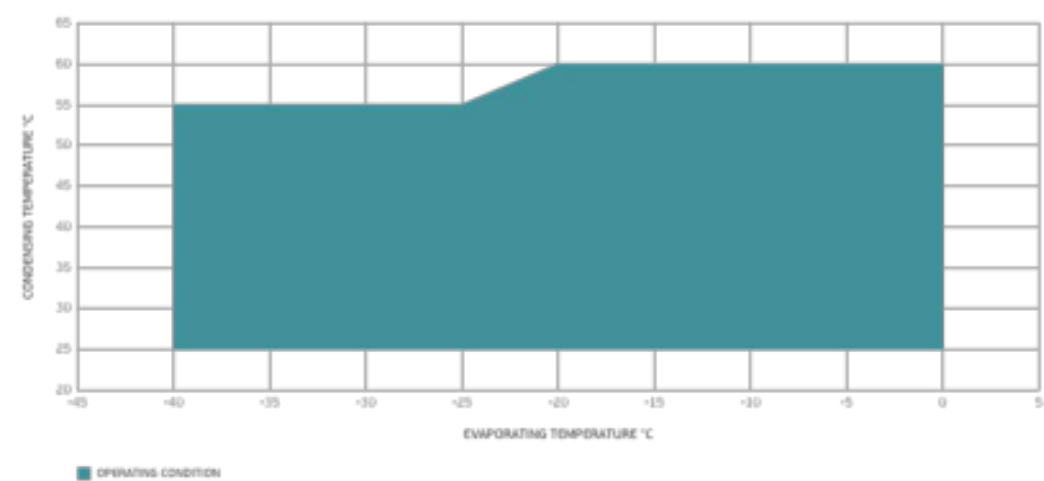
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1814	3185	0.57
-35	2238	3315	0.68
-30	2759	3455	0.8
-25	3385	3604	0.94
-20	4124	3762	1.1
-15	4984	3927	1.27
-10	5973	4099	1.46
-5	7099	4278	1.66
0	8372	4462	1.88

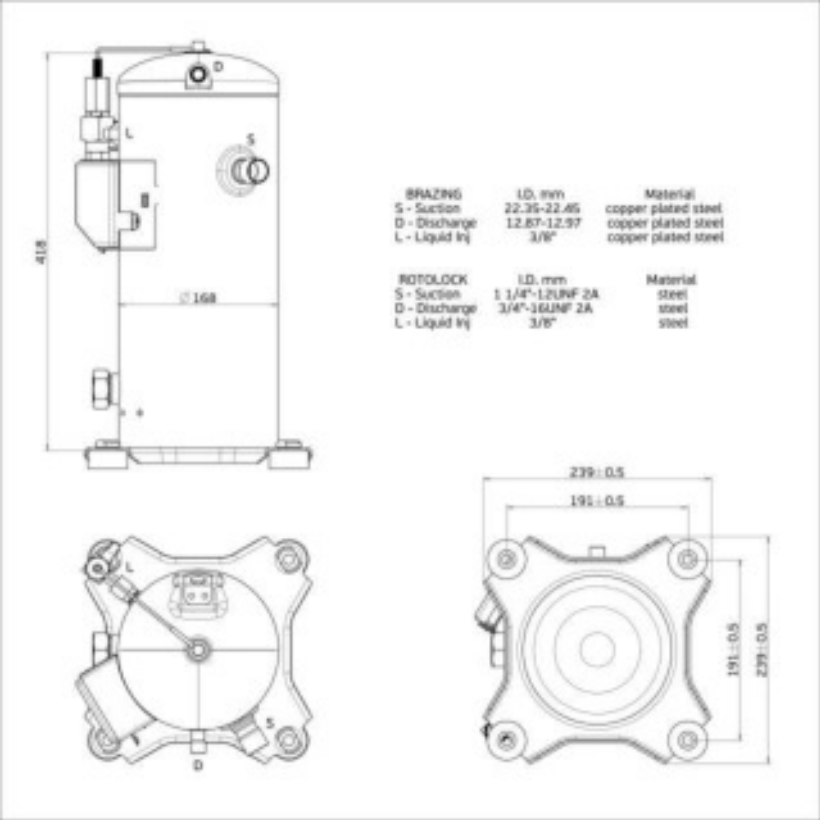
Test Condition: EN12900, Static, LBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



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

External Dimensions



Wiring Diagram

