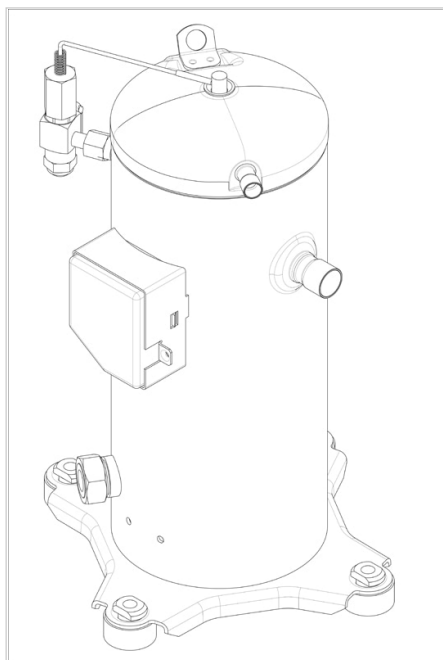




APPROVALS



 **ENGINEERING CODE**
303DO1201AC

 **APPROVED REFRIGERANT**
R-452A

 **POWER SUPPLY**
380 V 50 Hz

 **STANDARD CONDITIONS**
EN12900

 **APPLICATION**
LBP

 **COOLING CAPACITY**
2815 W

 **EFFICIENCY**
1.22 W/W

 **MOTOR TYPE**
3 Phase

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	380-420 V 50 Hz / 460 V 60 Hz

Electrical Data

Motor type	3 Phase
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	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
2815 W	2302 W	1.22 W/W	5.7 A	60 A	8.8 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	2434	1998	1.22
-35	2998	2110	1.42
-30	3687	2231	1.65
-25	4523	2357	1.92
-20	5528	2488	2.22
-15	6725	2621	2.57
-10	8135	2753	2.95
-5	9781	2882	3.39
0	11685	3006	3.89

Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	2122	2402	0.88
-35	2626	2524	1.04
-30	3238	2658	1.22
-25	3982	2801	1.42
-20	4879	2951	1.65
-15	5951	3106	1.92
-10	7221	3263	2.21
-5	8711	3420	2.55
0	10442	3575	2.92

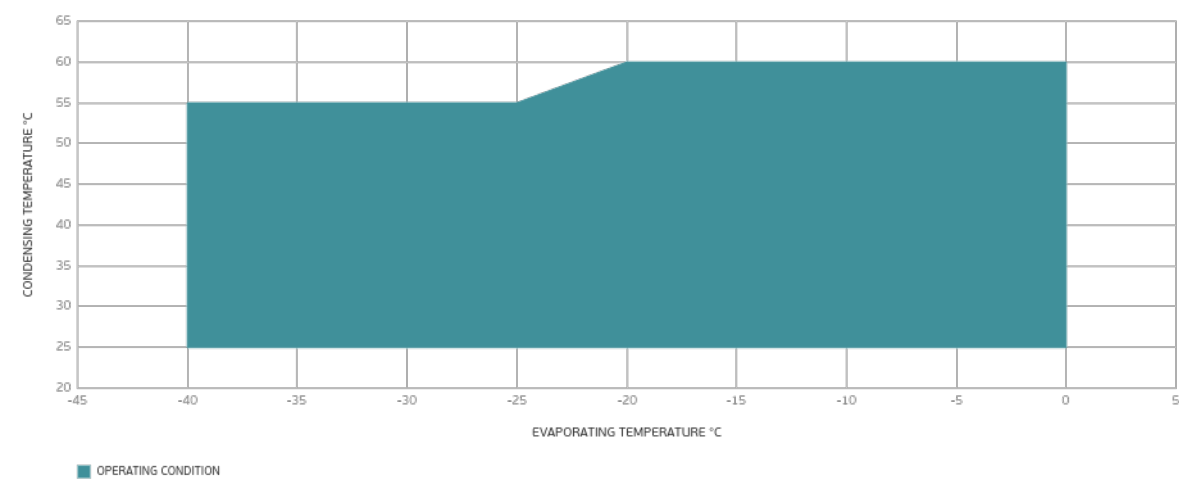
Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

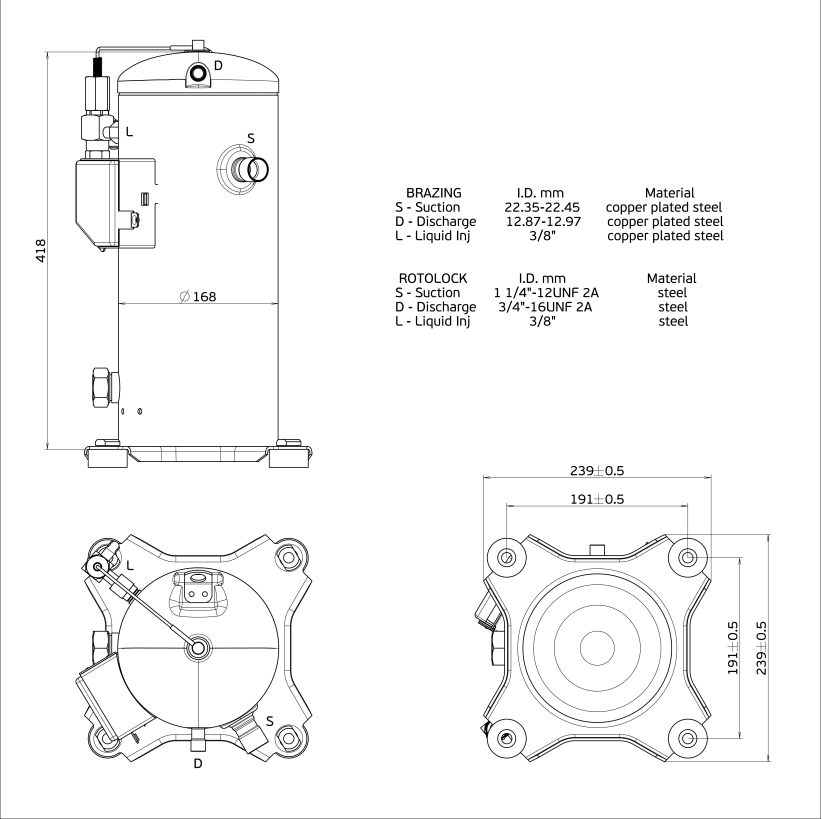
Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-40	1858	2987	0.62
-35	2258	3109	0.73
-30	2750	3245	0.85
-25	3357	3394	0.99
-20	4102	3553	1.15
-15	5005	3720	1.35
-10	6091	3892	1.56
-5	7380	4068	1.81
0	8894	4243	2.1

Test Condition: , Static, Return Gas 20°C, Ambient 35°C , Subcooling OK. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



External Dimensions



Wiring Diagram

