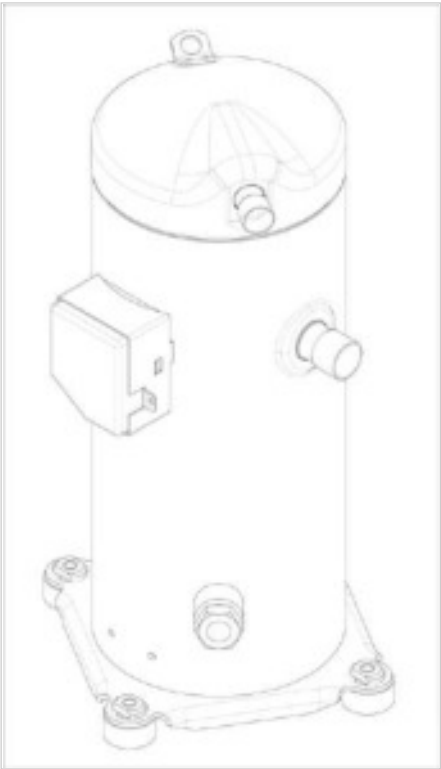




- ENGINEERING CODE**
302DO1401AB
- APPROVED REFRIGERANT**
R-404A
- POWER SUPPLY**
380 V 50 Hz
- STANDARD CONDITIONS**
EN12900
- APPLICATION**
MBP
- COOLING CAPACITY**
18494 W
- EFFICIENCY**
2.26 W/W
- MOTOR TYPE**
SCRL

APPROVALS



DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	29.1 m³/h (167.2 cm³/rev)
Compressor Cooling	Static
Horse Power	10 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	1.06 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	10.5 Kg
Oil Type	POE 32
Oil Initial Volume	2.7 L
Oil Recharge Volume	2.6 L
Oil Circulation	<1 %
Weight	55.3 Kg
Free Internal Volume Low	6.3 L
Free Internal Volume High	0.9 L

Electrical Components

Description	
Motor Protection	Internal Protector

External Characteristics

Base Plate Holes		191x191	
Base Plate Dimensions		232x232	
Height		506 mm	
Diameter		197 mm	
Hanger Tab		1	
Oil Side Glass		1	
Connector	Internal Diameter	Material	Shape
Suction	1 3/4"-12UN	Copper plated steel tube	Rotolock
Discharge	1 1/4"-12 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
18494 W	8182 W	2.26 W/W	14.3 A	121 A	23.6 A	76 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	9531	5646	1.69
-25	11832	5948	1.99
-20	14505	6257	2.32
-15	17630	6569	2.68
-10	21285	6880	3.09
-5	25552	7188	3.55
0	30509	7489	4.07
5	36236	7779	4.66
10	42813	8055	5.31

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	8236	6699	1.23
-25	10331	7079	1.46
-20	12686	7455	1.7
-15	15380	7824	1.97
-10	18494	8182	2.26
-5	22105	8526	2.59
0	26296	8852	2.97
5	31144	9157	3.4
10	36730	9437	3.89

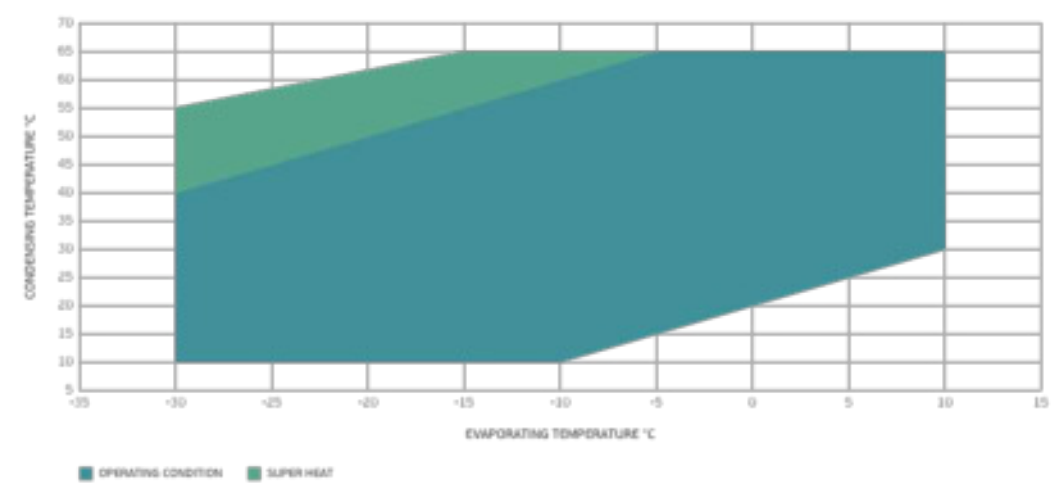
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-30	6589	7969	0.83
-25	8478	8441	1
-20	10514	8899	1.18
-15	12777	9339	1.37
-10	15348	9757	1.57
-5	18304	10151	1.8
0	21728	10516	2.07
5	25697	10850	2.37
10	30291	11150	2.72

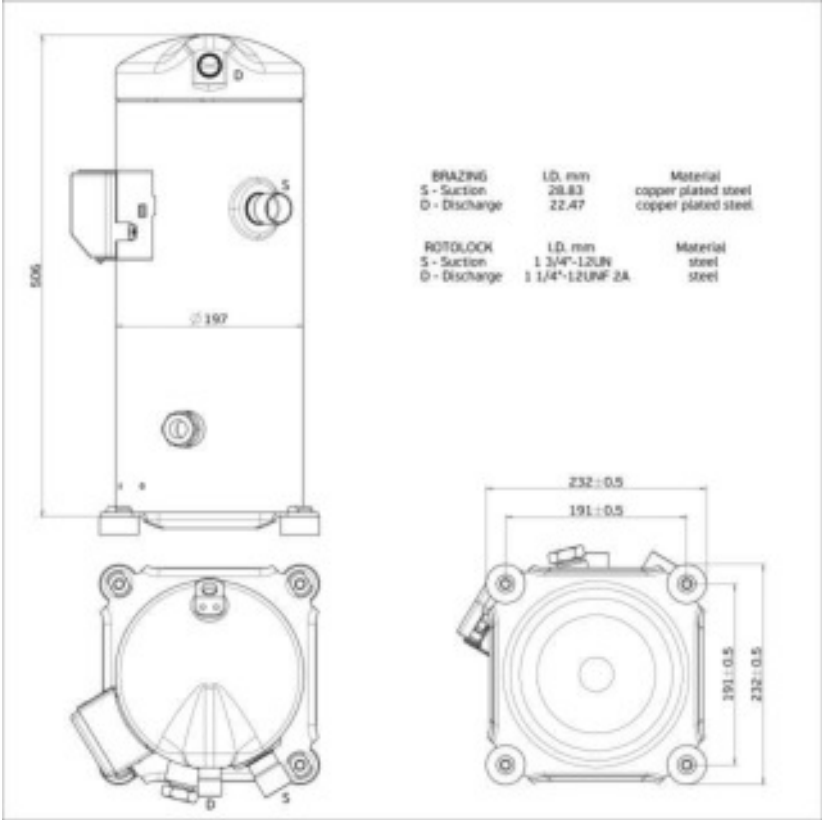
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



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

External Dimensions



Wiring Diagram

