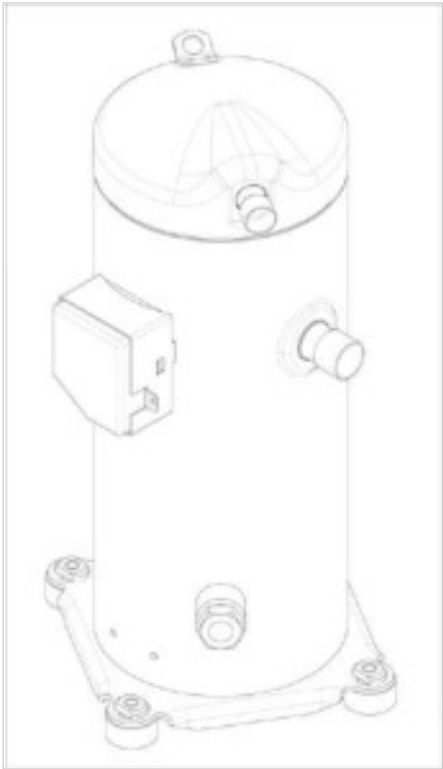




ENGINEERING CODE
302BO1401AB



APPROVED REFRIGERANT
R-404A



POWER SUPPLY
380 V 50 Hz



STANDARD CONDITIONS
EN12900



APPLICATION
MBP



COOLING CAPACITY
13353 W



EFFICIENCY
2.26 W/W



MOTOR TYPE
SCRL

APPROVALS



DATA

General Data

Type	Hermetic Scroll Compressor
Technology Type	On-Off
Displacement (Swept Volume)	21.4 m³/h (123 cm³/rev)
Compressor Cooling	Static
Horse Power	8 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	1.09 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	8 Kg
Oil Type	POE 32
Oil Initial Volume	2.7 L
Oil Recharge Volume	2.6 L
Oil Circulation	<1 %
Weight	54.1 Kg
Free Internal Volume Low	6.5 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
13353 W	5908 W	2.26 W/W	11.6 A	117 A	18.4 A	75 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	6882	4076	1.69
-25	8543	4295	1.99
-20	10473	4518	2.32
-15	12730	4743	2.68
-10	15369	4968	3.09
-5	18450	5190	3.55
0	22029	5407	4.07
5	26165	5617	4.66
10	30913	5816	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	5947	4837	1.23
-25	7460	5111	1.46
-20	9160	5383	1.7
-15	11105	5650	1.97
-10	13353	5908	2.26
-5	15962	6156	2.59
0	18987	6391	2.97
5	22488	6612	3.4
10	26521	6814	3.89

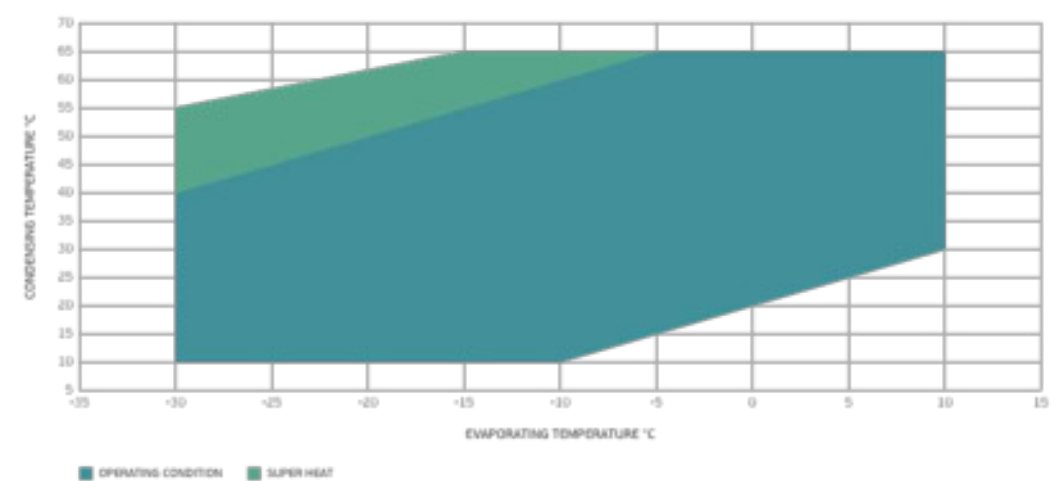
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Condensing Temperature 55°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Efficiency W/W
-30	4758	5754	0.83
-25	6121	6095	1
-20	7591	6426	1.18
-15	9226	6743	1.37
-10	11082	7045	1.57
-5	13217	7329	1.8
0	15688	7593	2.07
5	18554	7834	2.37
10	21872	8051	2.72

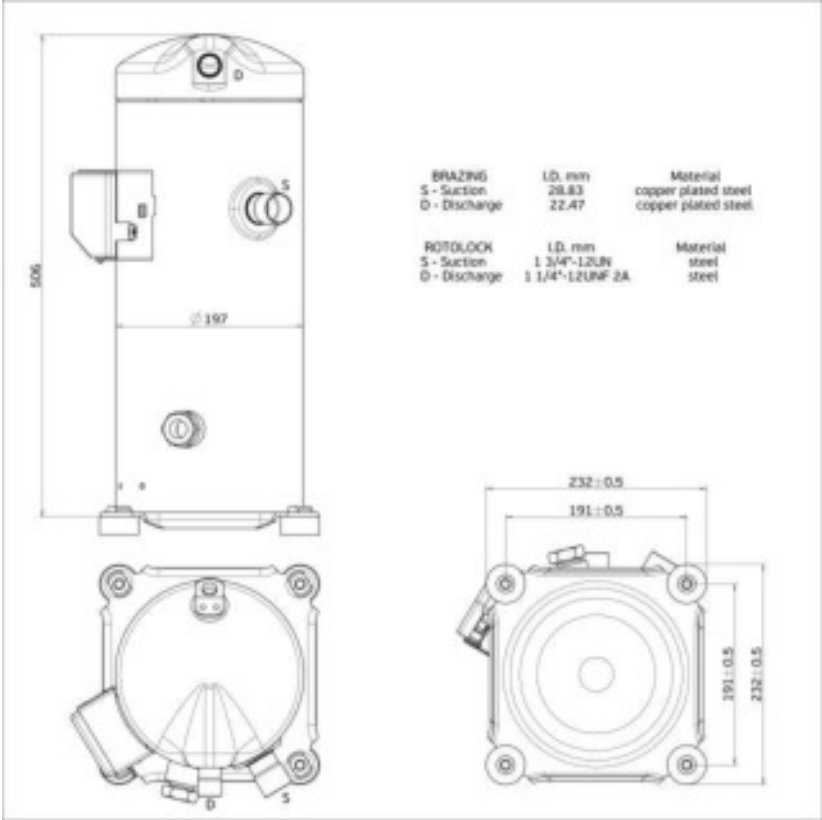
Test Condition: EN12900, Static, MBP. Data in accordance to EN12900 guideline polynomial curve.

Operating Envelope



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

External Dimensions



Wiring Diagram

