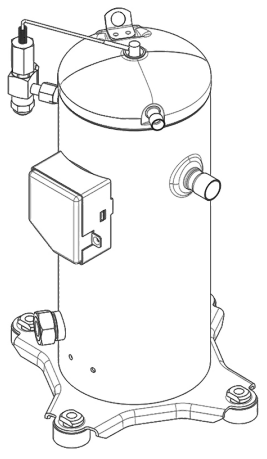
COMPRESSOR TECHNICAL DATA

SE2008GS-0



ENGINEERING CODE
303B00201AC

REFRIGERANT
R-452A

POWER SUPPLY
380-420 V 50 Hz
/ 460 V 60 Hz 3~

APPLICATION
LBP

MOTOR TYPE
3 Phase

STANDARD
EN12900

COOLING CAPACITY
1585 W

EFFICIENCY
1.1 W/W

DATA

GENERAL DATA

Model	SE2008GS-0
Type	Hermetic Scroll Compressor
Technology	On-Off
Compressor application	LBP
Compressor cooling	Static
HP	2 1/2

ELECTRICAL DATA

Voltage range 50Hz	342-462 V

ELECTRICAL COMPONENTS

Overload protection	Internal Protector | 37HM223-XX

MECHANICAL DATA

Displacement	7.30 m^3/h (41.95 cm^3/rev)
Free volume high	1 L
Free volume low	4.1 L
High side pressure	3.2 MPa
Low side pressure	2 MPa
Max discharge temperature	120 °C
Oil charge	1.4 L
Oil Recharge	1.25 L
Oil Circulation	0.01 %
Oil type	POE
Pressure valve opening (max)	3.1 MPa
Pressure valve opening (min)	2 MPa
Height	430.9 mm
Weight	29 Kg
Rated speed	2900 RPM

EXTERNAL CHARACTERISTICS

Base Plate Holes	190.5x190.5
Base plate dimensions	239x239

Connector	Internal diameter	Shape	Material
Suction	ID 22.4 mm	Brazing	Copper plated steel tube
Discharge	ID 12.92 mm	Brazing	Copper plated steel tube

MOTOR DATA

Max motor temperature	130 °C
Motor insulation	B
Run winding resistance	6.7 Ω
Start winding resistance	6.7 Ω

ADDITIONAL COMPONENTS

Cover	yes
Cover gasket	yes
Grommets	yes
Grounding screw	yes
Hanger tab	yes
Liquid injection	3/8"
Sightglass	yes
Sleeves	yes

PERFORMANCE

TESTED CONDITIONS

Tested refrigerant	R-452A
Tested application	LBP
Tested standard	EN12900
Tested cooling	Static
Tested voltage	380 V
Tested frequency	50Hz
Tested frequency	50Hz
Max refrigerant charge	3.5 Kg

RATED POINTS

	Condensing Temperature °C	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Consumo de Potencia W
	40	-35	1585	1.1	1447

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 35ºC

	Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Consumo de Potencia W
	-40	1372.00	1.09	1262.00
	-35	1696.00	1.28	1330.00
	-30	2088.00	1.49	1403.00
	-25	2561.00	1.73	1482.00
	-20	3128.00	2.00	1563.00
	-15	3802.00	2.31	1646.00
	-10	4596.00	2.66	1730.00
	-5	5522.00	3.05	1812.00
	0	6593.00	3.49	1891.00

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

PERFORMANCE CURVE

Condensing Temperature 45ºC

Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Consumo de Potencia W
-40	1218.00	0.80	1527.00
-35	1507.00	0.94	1601.00
-30	1855.00	1.10	1683.00
-25	2276.00	1.28	1773.00
-20	2781.00	1.49	1867.00
-15	3384.00	1.72	1965.00
-10	4098.00	1.98	2065.00
-5	4935.00	2.28	2166.00
0	5908.00	2.61	2266.00

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

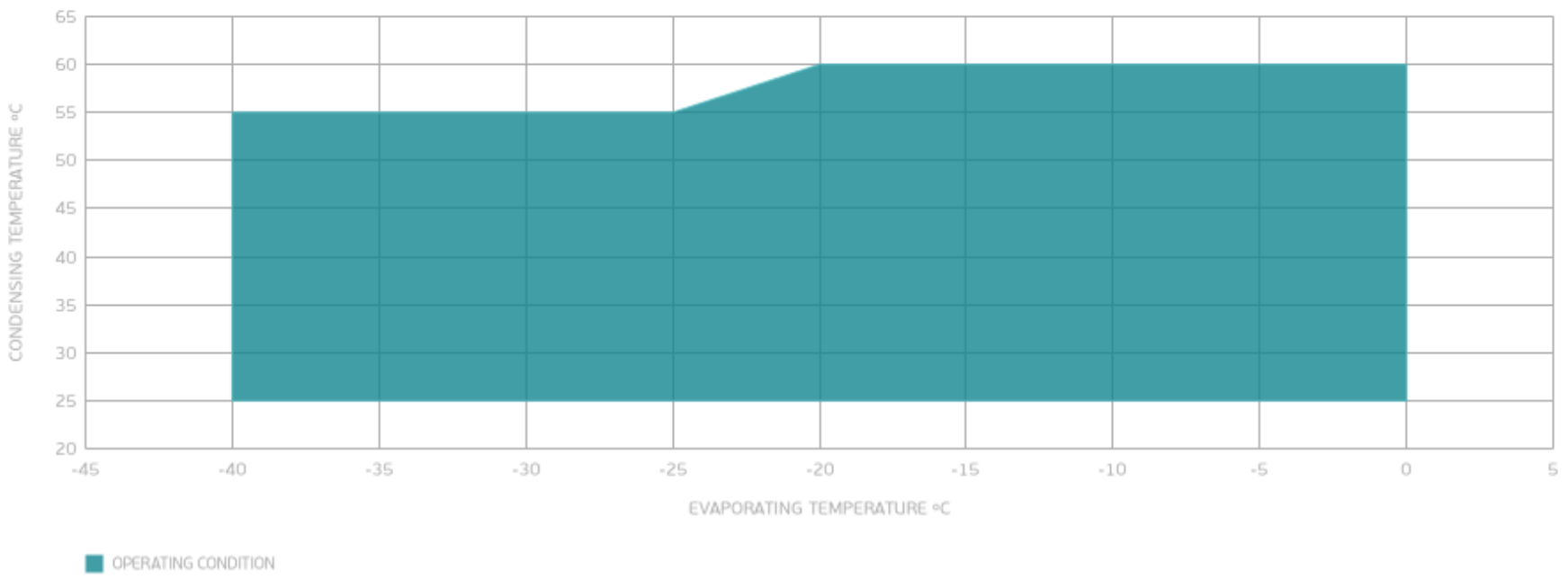
PERFORMANCE CURVE

Condensing Temperature 55ºC

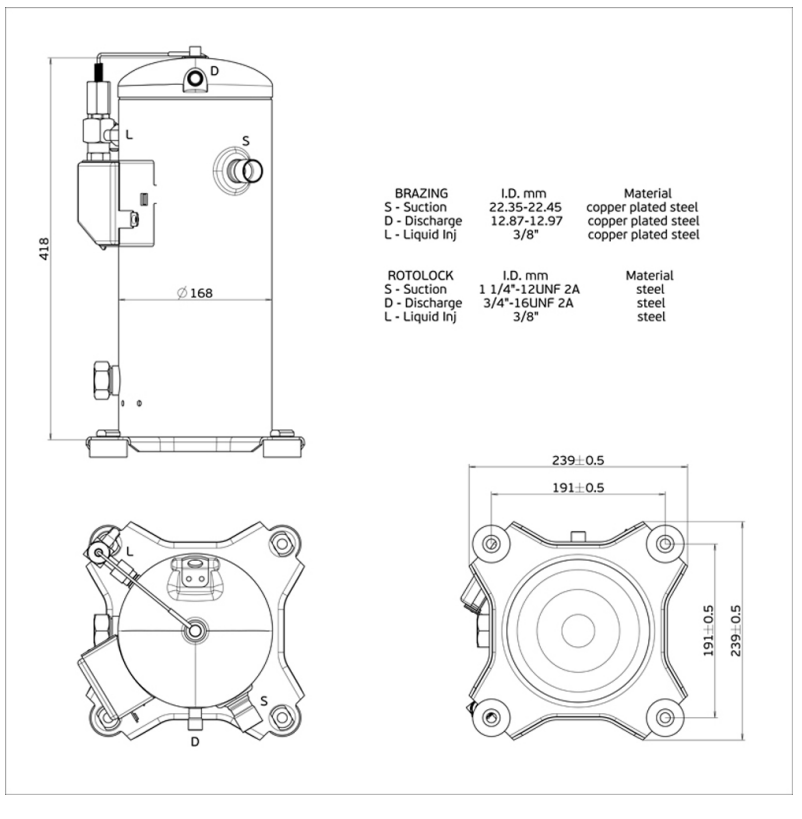
Evaporating Temperature °C	Cooling Capacity W	Efficiency W/W	Consumo de Potencia W
-40	1101.00	0.58	1913.00
-35	1330.00	0.67	1988.00
-30	1609.00	0.78	2073.00
-25	1952.00	0.90	2167.00
-20	2370.00	1.05	2268.00
-15	2878.00	1.21	2375.00
-10	3487.00	1.40	2486.00
-5	4210.00	1.62	2600.00
0	5060.00	1.86	2715.00

Test Condition: Subcooling 0 K, Return Gas 20 ºC. Data generated in accordance to EN 12900:2013 polynomial equation and tolerance guidelines.

ENVELOPE



EXTERNAL DIMENSIONS



BRAZING	I.D. mm	Material
S - Suction	22.35-22.45	copper plated steel
D - Discharge	12.87-12.97	copper plated steel
L - Liquid Inj	3/8"	copper plated steel

ROTOLOCK	I.D. mm	Material
S - Suction	1 1/4"-12UNF 2A	steel
D - Discharge	3/4"-16UNF 2A	steel
L - Liquid Inj	3/8"	steel