

SAMOS SB 0310–1100 D2

Side channel blowers



Discover all advantages of the product series SAMOS SB

Reliable

Robust construction, effective air cooling, long lifetime, nearly maintenance-free, dry and contact-free operating principle, high differential pressures thanks to two compression stages

Flexible

Vacuum or overpressure operation, horizontal and vertical installation, various design options and ATEX-certified versions available

Quiet

Very low noise level, fully enclosed unit, internal silencers

Accessories

- Vacuum relief valves
- Pressure relief valves
- Additional silencers
- Thermal protection (bimetal switch or PTC-thermistor)

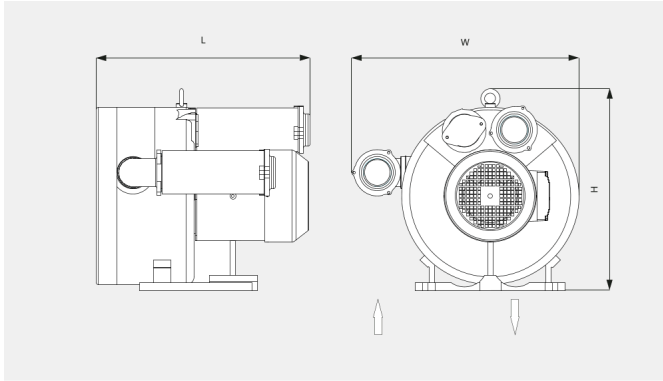
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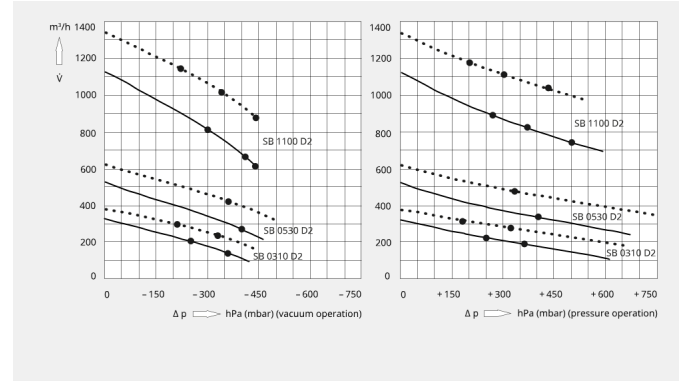
VACUUM SOLUTIONS

Dimensional drawing



Pumping speed/Volume flow

Air at 20 °C. Tolerance: ± 10%



The following technical values refer to ISO 50 Hz

	SAMOS SB 0310 D2 (A)	SAMOS SB 0310 D2 (B)	SAMOS SB 0530 D2
Technology short name	Side channel	Side channel	Side channel
Nominal pumping speed/volume flow	320 m ³ /h	320 m ³ /h	520 m ³ /h
Max. differential pressure (vacuum version)	-250 hPa (mbar)	-360 hPa (mbar)	-400 hPa (mbar)
Max. differential pressure (overpressure version)	+250 hPa (mbar)	+360 hPa (mbar)	+400 hPa (mbar)
Max. operating power	3.0 kW	4.3 kW	7.5 kW
Efficiency class	IE n.d.	IE n.d.	IE n.d.
Service factor	1.0	1.0	1.0
Nominal motor speed	2860 min ⁻¹	2915 min ⁻¹	2935 min ⁻¹
Noise level (ISO 3744)	71 dB(A)	71 dB(A)	71 dB(A)
Weight approx.	52 kg	62 kg	160 kg
Dimensions (L x W x H)	510 x 657 x 434 mm	500 x 657 x 434 mm	632 x 622 x 541 mm
spring elements mandatory	no	no	no
Gas inlet	G 2"	G 2"	G 2½"
Gas outlet	G 2"	G 2"	G 2½"

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The following technical values refer to ISO 50 Hz

	SAMOS SB 1100 D2 (A)	SAMOS SB 1100 D2 (B)	SAMOS SB 1100 D2 (C)
Technology short name	Side channel	Side channel	Side channel
Nominal pumping speed/volume flow	1120 m ³ /h	1120 m ³ /h	1120 m ³ /h
Max. differential pressure (vacuum version)	-270 hPa (mbar)	-410 hPa (mbar)	-440 hPa (mbar)
Max. differential pressure (overpressure version)	+240 hPa (mbar)	+360 hPa (mbar)	+480 hPa (mbar)
Max. operating power	12.6 kW	17.3 kW	21.3 kW
Efficiency class	IE3	IE3	IE3
Service factor	1.15	1.15	1.15
Nominal motor speed	2955 min ⁻¹	2960 min ⁻¹	2955 min ⁻¹
Noise level (ISO 3744)	72 dB(A)	72 dB(A)	72 dB(A)
Weight approx.	299 kg	307 kg	321 kg
Dimensions (L x W x H)	873 x 1100 x 665 mm	873 x 1100 x 665 mm	873 x 1100 x 665 mm
spring elements mandatory	yes	yes	yes
Gas inlet	G 4"	G 4"	G 4"
Gas outlet	G 4"	G 4"	G 4"

The following technical values refer to ISO 60 Hz

	SAMOS SB 0310 D2 (A)	SAMOS SB 0310 D2 (B)	SAMOS SB 0530 D2
Technology short name	Side channel	Side channel	Side channel
Nominal pumping speed/volume flow	370 m ³ /h	370 m ³ /h	620 m ³ /h
Max. differential pressure (vacuum version)	-210 hPa (mbar)	-330 hPa (mbar)	-360 hPa (mbar)
Max. differential pressure (overpressure version)	+180 hPa (mbar)	+320 hPa (mbar)	+330 hPa (mbar)
Max. operating power	3.45 kW	4.8 kW	8.6 kW
Efficiency class	IE n.d.	IE n.d.	IE n.d.
Service factor	1.0	1.0	1.0

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	SAMOS SB 0310 D2 (A)	SAMOS SB 0310 D2 (B)	SAMOS SB 0530 D2
Nominal motor speed	3435 min ⁻¹	3495 min ⁻¹	3490 min ⁻¹
Noise level (ISO 3744)	75 dB(A)	75 dB(A)	76 dB(A)
Weight approx.	52 kg	62 kg	160 kg
Dimensions (L x W x H)	510 x 638 x 434 mm	500 x 638 x 434 mm	632 x 622 x 541 mm
spring elements mandatory	no	no	no
Gas inlet	G 2"	G 2"	G 2½"
Gas outlet	G 2"	G 2"	G 2½"

The following technical values refer to ISO 60 Hz

	SAMOS SB 1100 D2 (A)	SAMOS SB 1100 D2 (B)	SAMOS SB 1100 D2 (C)
Technology short name	Side channel	Side channel	Side channel
Nominal pumping speed/volume flow	1340 m ³ /h	1340 m ³ /h	1340 m ³ /h
Max. differential pressure (vacuum version)	-220 hPa (mbar)	-360 hPa (mbar)	-440 hPa (mbar)
Max. differential pressure (overpressure version)	+190 hPa (mbar)	+300 hPa (mbar)	+410 hPa (mbar)
Max. operating power	14.5 kW	19.9 kW	24.5 kW
Efficiency class	IE3	IE3	IE3
Service factor	1.15	1.15	1.15
Nominal motor speed	3555 min ⁻¹	3560 min ⁻¹	3550 min ⁻¹
Noise level (ISO 3744)	76 dB(A)	76 dB(A)	76 dB(A)
Weight approx.	299 kg	307 kg	321 kg
Dimensions (L x W x H)	873 x 1100 x 665 mm	873 x 1100 x 665 mm	873 x 1100 x 665 mm
spring elements mandatory	yes	yes	yes
Gas inlet	G 4"	G 4"	G 4"
Gas outlet	G 4"	G 4"	G 4"

DO YOU WANT TO KNOW MORE

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