

SAMOS SB 0310–1100 D2

Side channel blowers



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

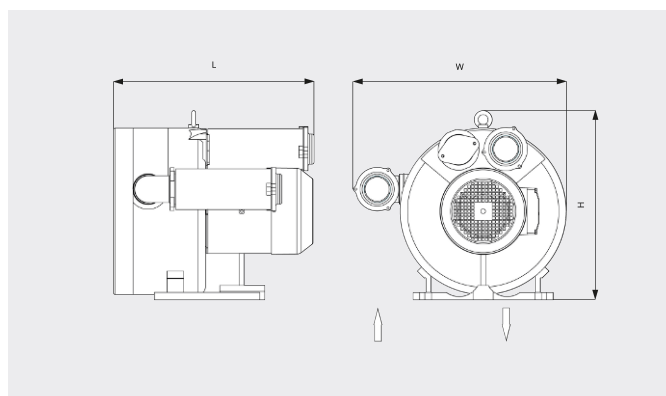
- Vacuum relief valves
- Pressure relief valves
- Additional silencers
- Thermal protection (bimetal switch or PTC-thermistor)

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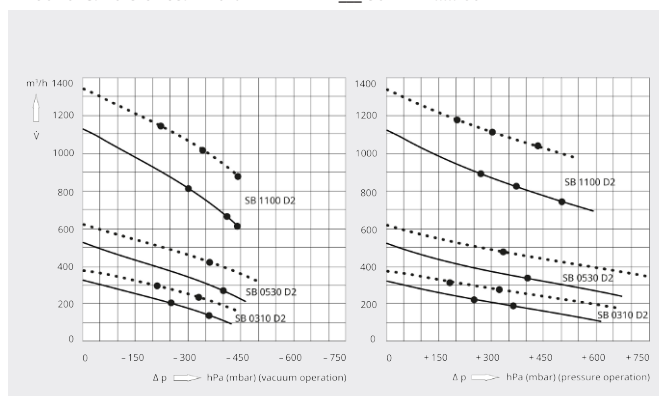


Dimensional drawing



Pumping speed/Volume flow
Air at 20°C. Tolerance: ± 10%

— 50 Hz 60 Hz



	SAMOS SB 0310 D2	SAMOS SB 0310 D2	SAMOS SB 0530 D2
Nominal pumping speed/volume flow	320 / 370 m³/h (50 / 60 Hz)	320 / 370 m³/h (50 / 60 Hz)	520 / 620 m³/h (50 / 60 Hz)
Max. differential pressure (vacuum version)	-250 / -210 hPa (mbar) (50 / 60 Hz)	-360 / -330 hPa (mbar) (50 / 60 Hz)	-400 / -360 hPa (mbar) (50 / 60 Hz)
Max. differential pressure (overpressure version)	+250 / +180 hPa (mbar) (50 / 60 Hz)	+360 / +320 hPa (mbar) (50 / 60 Hz)	+400 / +330 hPa (mbar) (50 / 60 Hz)
Nominal motor rating	3.0 / 3.4 kW (50 / 60 Hz)	4.3 / 4.8 kW (50 / 60 Hz)	7.5 / 8.6 kW (50 / 60 Hz)
Nominal motor speed	2850 / 3450 min ⁻¹ (50 / 60 Hz)	2850 / 3450 min ⁻¹ (50 / 60 Hz)	2850 / 3450 min ⁻¹ (50 / 60 Hz)
Noise level (ISO 3744)	73 / 75 dB(A) (50 / 60 Hz)	73 / 75 dB(A) (50 / 60 Hz)	74 / 78 dB(A) (50 / 60 Hz)
Weight approx.	51 kg	53 kg	178 kg
Dimensions (L x W x H)	528 x 656 x 420 mm	528 x 656 x 420 mm	601 x 639 x 516 mm
Gas inlet / outlet	G 2" / G 2"	G 2" / G 2"	G 2½" / G 2½"

	SAMOS SB 1100 D2	SAMOS SB 1100 D2	SAMOS SB 1100 D2
Nominal pumping speed/volume flow	1120 / 1340 m³/h (50 / 60 Hz)	1120 / 1340 m³/h (50 / 60 Hz)	1120 / 1340 m³/h (50 / 60 Hz)
Max. differential pressure (vacuum version)	-300 / -200 hPa (mbar) (50 / 60 Hz)	-410 / -340 hPa (mbar) (50 / 60 Hz)	-440 hPa (mbar) (50 / 60 Hz)
Max. differential pressure (overpressure version)	+270 / +200 hPa (mbar) (50 / 60 Hz)	+370 / +300 hPa (mbar) (50 / 60 Hz)	+500 / +430 hPa (mbar) (50 / 60 Hz)
Nominal motor rating	12.5 / 14.5 kW (50 / 60 Hz)	16.5 / 19.0 kW (50 / 60 Hz)	20.0 / 23.0 kW (50 / 60 Hz)

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Nominal motor speed	2850 / 3450 min ⁻¹ (50 / 60 Hz)	2850 / 3450 min ⁻¹ (50 / 60 Hz)	2850 / 3450 min ⁻¹ (50 / 60 Hz)
Noise level (ISO 3744)	74 / 84 dB(A) (50 / 60 Hz)	74 / 84 dB(A) (50 / 60 Hz)	74 / 84 dB(A) (50 / 60 Hz)
Weight approx.	269 kg	283 kg	294 kg
Dimensions (L x W x H)	860 x 1100 x 580 mm	860 x 1100 x 580 mm	860 x 1100 x 580 mm
Gas inlet / outlet	G 4" / G 4"	G 4" / G 4"	G 4" / G 4"

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