

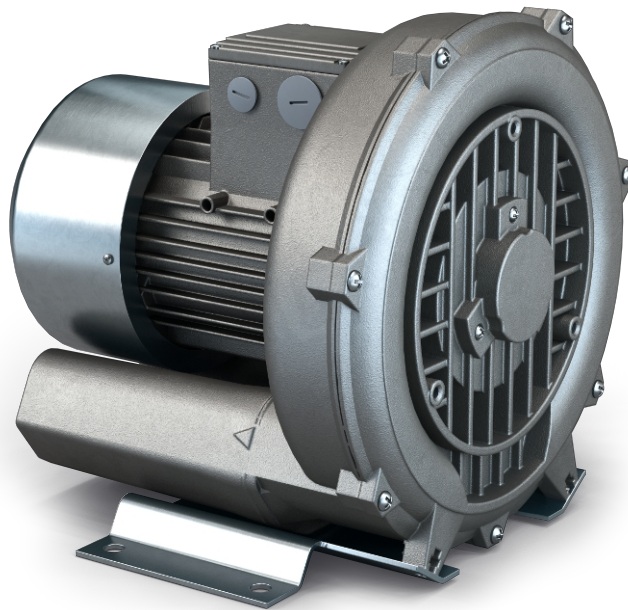
SAMOS SB 0050-0200 D0

Side channel blowers



VACUUM SOLUTIONS

Part of the **BUSCH** GROUP



Reliable

Robust and light-weight construction, effective air cooling, long lifetime, nearly maintenance-free, dry and contact-free operating principle

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, spare parts and options

- Vacuum relief valves
- Pressure relief valves
- Additional silencers
- Thermal protection (bimetal switch or PTC-thermistor)
- Inlet filter for vacuum or pressure operation

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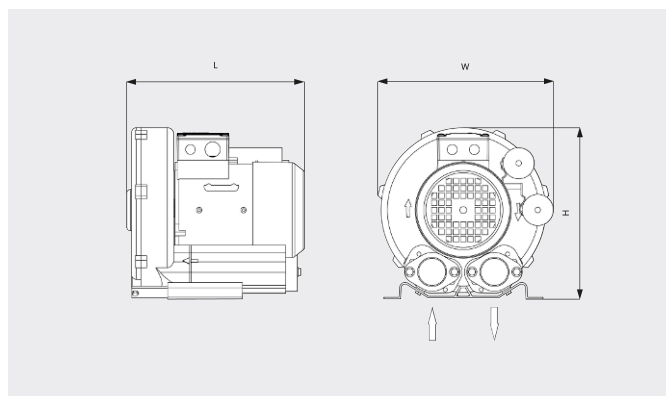
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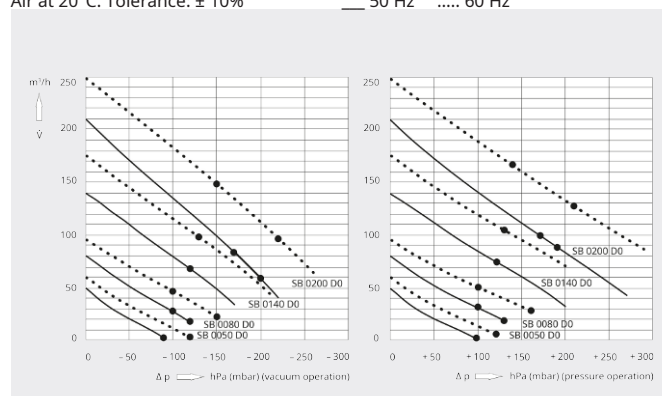
Dimensional drawing



Pumping speed

Air at 20°C. Tolerance: $\pm 10\%$

— 50 Hz 60 Hz



	SAMOS SB 0050 D0	SAMOS SB 0080 D0	SAMOS SB 0200 D0
Nominal pumping speed/volume flow	50 / 60 m³/h (50 / 60 Hz)	80 / 96 m³/h (50 / 60 Hz)	80 / 96 m³/h (50 / 60 Hz)
Max. differential pressure (vacuum version)	-90 / -120 hPa (mbar) (50 / 60 Hz)	-100 hPa (mbar) (50 / 60 Hz)	-120 / -150 hPa (mbar) (50 / 60 Hz)
Max. differential pressure (overpressure version)	+100 / +120 hPa (mbar) (50 / 60 Hz)	+100 hPa (mbar) (50 / 60 Hz)	+130 / +160 hPa (mbar) (50 / 60 Hz)
Max. operating power	0.2 / 0.23 kW (50 / 60 Hz)	0.25 / 0.29 kW (50 / 60 Hz)	0.4 / 0.5 kW (50 / 60 Hz)
Service factor	1.0	1.25	1.1
Efficiency class	IE n.d.	IE n.d.	IE n.d.
Nominal motor speed	2835 / 3425 min ⁻¹ (50 / 60 Hz)	2800 / 3360 min ⁻¹ (50 / 60 Hz)	2770 / 3360 min ⁻¹ (50 / 60 Hz)
Noise level (ISO 3744)	50 / 53 dB(A) (50 / 60 Hz)	51 / 55 dB(A) (50 / 60 Hz)	58 / 60 dB(A) (50 / 60 Hz)
Weight approx.	10 kg	9 kg	11 kg
Dimensions (L x W x H)	229 x 247 x 247 mm	229 x 247 x 247 mm	256 x 247 x 247 mm
Gas inlet / outlet	G 1¼" / G 1¼"	G 1¼" / G 1¼"	G 1¼" / G 1¼"

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	SAMOS SB 0140 D0	SAMOS SB 0200 D0	SAMOS SB 0200 D0
Nominal pumping speed/volume flow	140 / 175 m³/h (50 / 60 Hz)	210 / 250 m³/h (50 / 60 Hz)	210 / 250 m³/h (50 / 60 Hz)
Max. differential pressure (vacuum version)	-120 / -130 hPa (mbar) (50 / 60 Hz)	-170 / -150 hPa (mbar) (50 / 60 Hz)	-230 / -210 hPa (mbar) (50 / 60 Hz)
Max. differential pressure (overpressure version)	+120 / +130 hPa (mbar) (50 / 60 Hz)	+170 / +140 hPa (mbar) (50 / 60 Hz)	+220 / +200 hPa (mbar) (50 / 60 Hz)
Max. operating power	0.7 / 0.83 kW (50 / 60 Hz)	1.3 / 1.6 kW (50 / 60 Hz)	1.75 / 2 kW (50 / 60 Hz)
Service factor	1.1	1.15	1.15
Efficiency class	IE n.d.	IE3	IE3
Nominal motor speed	2740 / 3340 min⁻¹ (50 / 60 Hz)	2885 / 3480 min⁻¹ (50 / 60 Hz)	2910 / 3510 min⁻¹ (50 / 60 Hz)
Noise level (ISO 3744)	63 / 64 dB(A) (50 / 60 Hz)	60 / 69 dB(A) (50 / 60 Hz)	64 / 72 dB(A) (50 / 60 Hz)
Weight approx.	14 kg	26 kg	32 kg
Dimensions (L x W x H)	269 x 285 x 355 mm	317 x 334 x 388 mm	352 x 334 x 388 mm
Gas inlet / outlet	G 1½" / G 1½"	G 2" / G 2"	G 2" / G 2"

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!
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