

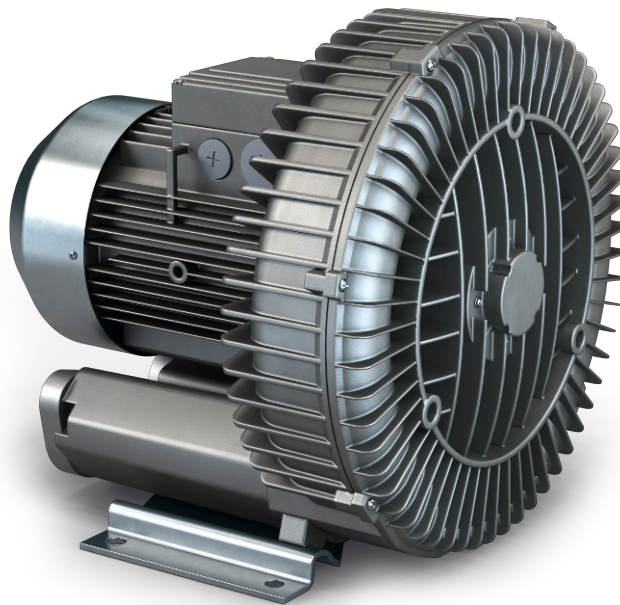
SAMOS SB 0310–0530 D0

Side channel blowers



VACUUM SOLUTIONS

Part of the **BUSCH** GROUP



Reliable

Robust 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)

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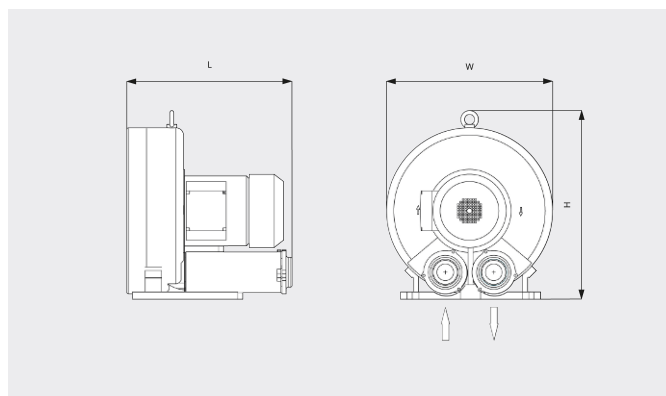
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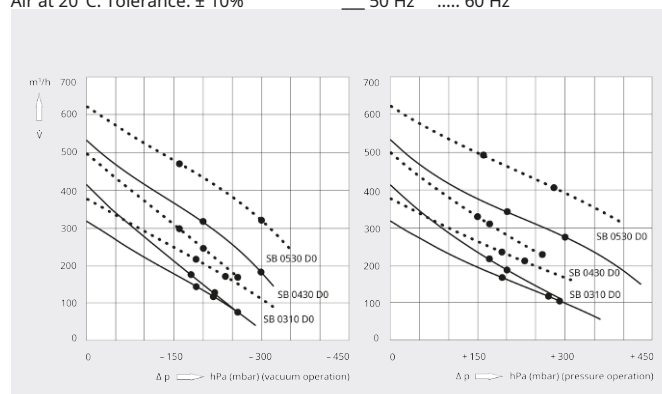
Dimensional drawing



Pumping speed

Air at 20°C. Tolerance: $\pm 10\%$

— 50 Hz 60 Hz



SAMOS SB 0310 D0		SAMOS SB 0310 D0	
Nominal pumping speed/volume flow	315 / 375 m³/h (50 / 60 Hz)	315 / 375 m³/h (50 / 60 Hz)	
Max. differential pressure (vacuum version)	-200 hPa (mbar) (50 / 60 Hz)	-260 / -240 hPa (mbar) (50 / 60 Hz)	
Max. differential pressure (overpressure version)	+190 hPa (mbar) (50 / 60 Hz)	+270 / +230 hPa (mbar) (50 / 60 Hz)	
Max. operating power	2.5 / 3 kW (50 / 60 Hz)	3.0 / 3.45 kW (50 / 60 Hz)	
Efficiency class	IE3	IE n.d.	
Service factor	1.15	1.0	
Nominal motor speed	2910 / 3510 min ⁻¹ (50 / 60 Hz)	2855 / 3430 min ⁻¹ (50 / 60 Hz)	
Noise level (ISO 3744)	64 / 70 dB(A) (50 / 60 Hz)	69 / 72 dB(A) (50 / 60 Hz)	
Weight approx.	36 kg	39 kg	
Dimensions (L x W x H)	396 x 383 x 429 mm	414 x 383 x 429 mm	
Gas inlet / outlet	G 2" / G 2"	G 2" / G 2"	

SAMOS SB 0430 D0		SAMOS SB 0430 D0	SAMOS SB 0430 D0
Nominal pumping speed/volume flow	415 / 500 m³/h (50 / 60 Hz)	415 / 500 m³/h (50 / 60 Hz)	415 / 500 m³/h (50 / 60 Hz)
Max. differential pressure (vacuum version)	-160 / -140 hPa (mbar) (50 / 60 Hz)	-220 / -200 hPa (mbar) (50 / 60 Hz)	-260 hPa (mbar) (50 / 60 Hz)

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SAMOS SB 0430 D0		SAMOS SB 0430 D0		SAMOS SB 0430 D0	
Max. differential pressure (overpressure version)	+150 / +120 hPa (mbar) (50 / 60 Hz)	+200 / +170 hPa (mbar) (50 / 60 Hz)		+290 hPa (mbar) (50 / 60 Hz)	
Max. operating power	2.5 / 3 kW (50 / 60 Hz)	3.0 / 3.45 kW (50 / 60 Hz)		4.0 / 4.6 kW (50 / 60 Hz)	
Efficiency class	IE3	IE n.d.		IE n.d.	
Service factor	1.15	1.0		1.0	
Nominal motor speed	2910 / 3510 min ⁻¹ (50 / 60 Hz)	2855 / 3430 min ⁻¹ (50 / 60 Hz)		2910 / 3495 min ⁻¹ (50 / 60 Hz)	
Noise level (ISO 3744)	64 / 70 dB(A) (50 / 60 Hz)	71 / 75 dB(A) (50 / 60 Hz)		71 / 75 dB(A) (50 / 60 Hz)	
Weight approx.	41 kg	40 kg		50 kg	
Dimensions (L x W x H)	408 x 381 x 434 mm	426 x 381 x 429 mm		416 x 381 x 429 mm	
Gas inlet / outlet	G 2" / G 2"	G 2" / G 2"		G 2" / G 2"	

SAMOS SB 0530 D0		SAMOS SB 0530 D0	
Nominal pumping speed/volume flow	530 / 620 m ³ /h (50 / 60 Hz)	530 / 620 m ³ /h (50 / 60 Hz)	
Max. differential pressure (vacuum version)	-200 / -170 hPa (mbar) (50 / 60 Hz)	-300 hPa (mbar) (50 / 60 Hz)	
Max. differential pressure (overpressure version)	+200 / +160 hPa (mbar) (50 / 60 Hz)	+300 / +280 hPa (mbar) (50 / 60 Hz)	
Efficiency class	IE n.d.	IE n.d.	
Service factor	1.0	1.0	
Max. operating power	4.0 / 4.6 kW (50 / 60 Hz)	5.5 / 6.3 kW (50 / 60 Hz)	
Nominal motor speed	2915 / 3500 min ⁻¹ (50 / 60 Hz)	2900 / 3450 min ⁻¹ (50 / 60 Hz)	
Noise level (ISO 3744)	69 / 71 dB(A) (50 / 60 Hz)	71 / 75 dB(A) (50 / 60 Hz)	
Weight approx.	112 kg	115 kg	
Dimensions (L x W x H)	506 x 486 x 530 mm	527 x 486 x 530 mm	
Gas inlet / outlet	G 2½" / G 2½"	G 2½" / G 2½"	

DO YOU WANT TO KNOW MORE?

Get in touch with us directly!
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