

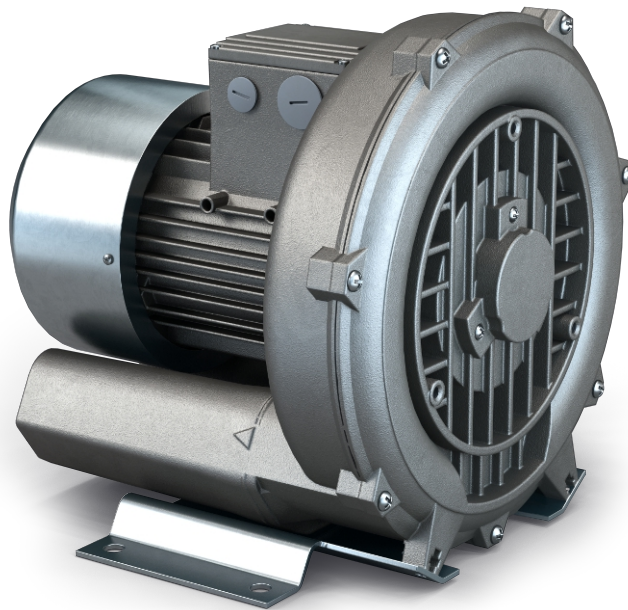
# SAMOS SB 0050-0200 D0

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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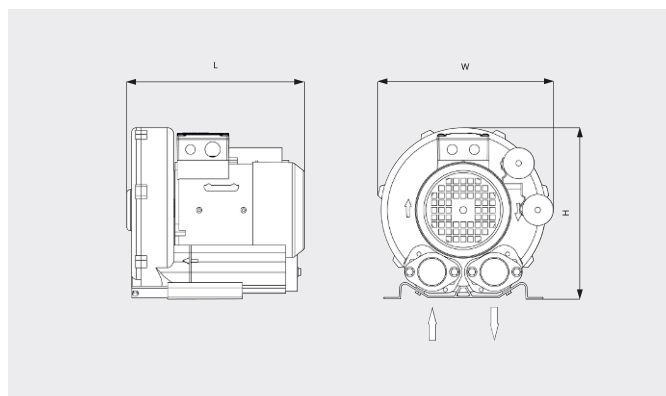
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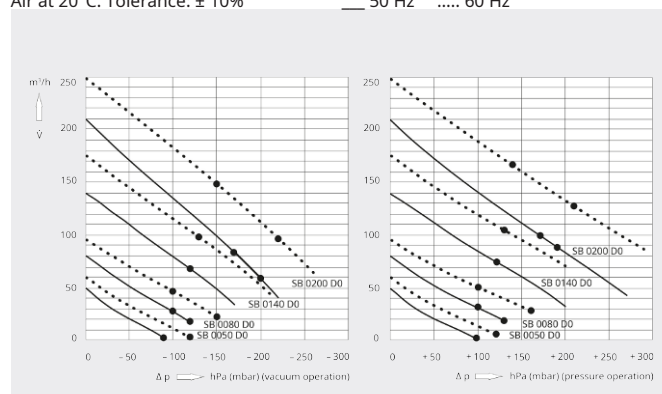
Dimensional drawing



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 <sup>-1</sup> (50 / 60 Hz) | 2800 / 3360 min <sup>-1</sup> (50 / 60 Hz) | 2770 / 3360 min <sup>-1</sup> (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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