

# 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

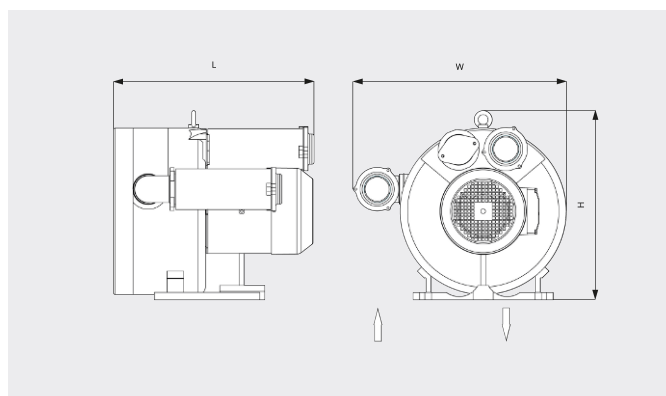
- Vacuum relief valves
- Pressure relief valves
- Additional silencers
- Thermal protection (bimetal switch or PTC-thermistor)

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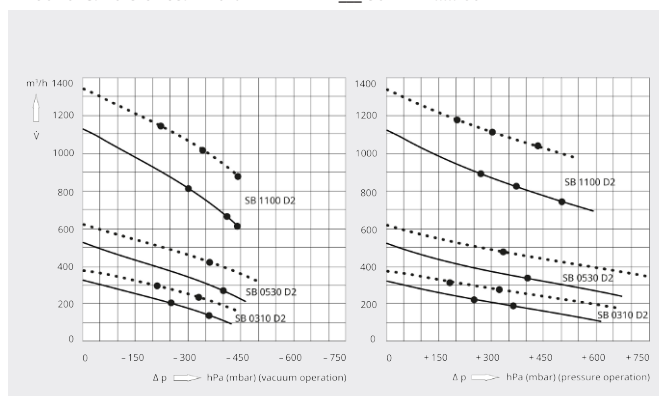


Dimensional drawing



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 <sup>-1</sup> (50 / 60 Hz) | 2850 / 3450 min <sup>-1</sup> (50 / 60 Hz) | 2850 / 3450 min <sup>-1</sup> (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 <sup>-1</sup> (50 / 60 Hz) | 2850 / 3450 min <sup>-1</sup> (50 / 60 Hz) | 2850 / 3450 min <sup>-1</sup> (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"                                |

## DO YOU WANT TO KNOW MORE?

Get in touch with us directly!  
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