

# SAMOS SB 0710–1400 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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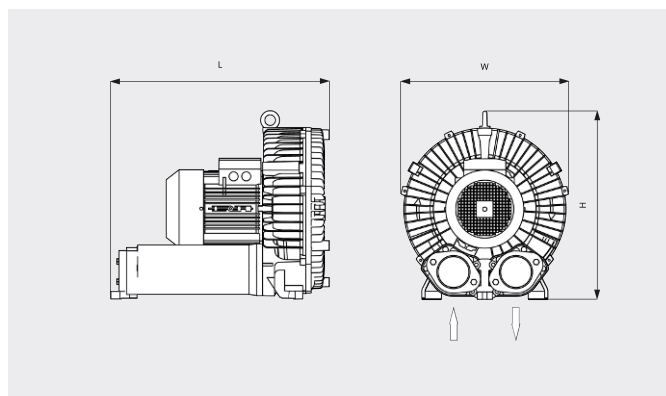
Side channel blowers



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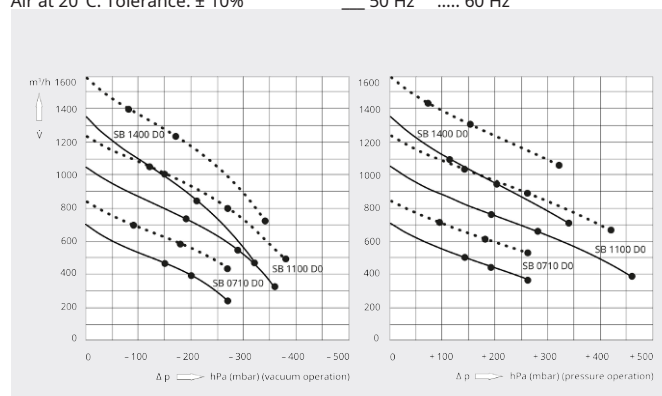
Dimensional drawing



Pumping speed

Air at 20°C. Tolerance: ± 10%

— 50 Hz ..... 60 Hz



|                                                   | SAMOS SB 0710 D0                           | SAMOS SB 0710 D0                           | SAMOS SB 0710 D0                           |
|---------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Nominal pumping speed/volume flow                 | 700 / 820 m³/h (50 / 60 Hz)                | 700 / 820 m³/h (50 / 60 Hz)                | 700 / 820 m³/h (50 / 60 Hz)                |
| Max. differential pressure (vacuum version)       | -150 / -90 hPa (mbar) (50 / 60 Hz)         | -200 / -180 hPa (mbar) (50 / 60 Hz)        | -270 hPa (mbar) (50 / 60 Hz)               |
| Max. differential pressure (overpressure version) | +140 / +90 hPa (mbar) (50 / 60 Hz)         | +190 / +180 hPa (mbar) (50 / 60 Hz)        | +260 hPa (mbar) (50 / 60 Hz)               |
| Max. operating power                              | 4.0 / 4.6 kW (50 / 60 Hz)                  | 5.5 / 6.3 kW (50 / 60 Hz)                  | 7.5 / 8.6 kW (50 / 60 Hz)                  |
| Efficiency class                                  | IE n.d.                                    | IE n.d.                                    | IE n.d.                                    |
| Service factor                                    | 1.0                                        | 1.0                                        | 1.0                                        |
| Nominal motor speed                               | 2915 / 3500 min <sup>-1</sup> (50 / 60 Hz) | 2900 / 3450 min <sup>-1</sup> (50 / 60 Hz) | 2935 / 3490 min <sup>-1</sup> (50 / 60 Hz) |
| Noise level (ISO 3744)                            | 69 / 71 dB(A) (50 / 60 Hz)                 | 71 / 75 dB(A) (50 / 60 Hz)                 | 71 / 75 dB(A) (50 / 60 Hz)                 |
| Weight approx.                                    | 115 kg                                     | 118 kg                                     | 124 kg                                     |
| Dimensions (L x W x H)                            | 530 x 486 x 530 mm                         | 551 x 486 x 530 mm                         | 551 x 486 x 530 mm                         |
| Gas inlet / outlet                                | G 2½" / G 2½"                              | G 2½" / G 2½"                              | G 2½" / G 2½"                              |

|                                             | SAMOS SB 1100 D0                    | SAMOS SB 1100 D0                    | SAMOS SB 1100 D0              |
|---------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------|
| Nominal pumping speed/volume flow           | 1050 / 1250 m³/h (50 / 60 Hz)       | 1050 / 1250 m³/h (50 / 60 Hz)       | 1050 / 1250 m³/h (50 / 60 Hz) |
| Max. differential pressure (vacuum version) | -190 / -150 hPa (mbar) (50 / 60 Hz) | -290 / -270 hPa (mbar) (50 / 60 Hz) | -360 hPa (mbar) (50 / 60 Hz)  |

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|---------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Max. differential pressure (overpressure version) | +190 / +140 hPa (mbar) (50 / 60 Hz)        | +280 / +260 hPa (mbar) (50 / 60 Hz)        | +460 / +420 hPa (mbar) (50 / 60 Hz)        |
| Max. operating power                              | 8.5 / 9.8 kW (50 / 60 Hz)                  | 12.5 / 14.5 kW (50 / 60 Hz)                | 18.5 / 21.3 kW (50 / 60 Hz)                |
| Efficiency class                                  | IE n.d.                                    | IE n.d.                                    | IE n.d.                                    |
| Service factor                                    | 1.0                                        | 1.0                                        | 1.0                                        |
| Nominal motor speed                               | 2915 / 3490 min <sup>-1</sup> (50 / 60 Hz) | 2920 / 3500 min <sup>-1</sup> (50 / 60 Hz) | 2910 / 3500 min <sup>-1</sup> (50 / 60 Hz) |
| Noise level (ISO 3744)                            | 71 / 75 dB(A) (50 / 60 Hz)                 | 74 / 78 dB(A) (50 / 60 Hz)                 | 74 / 78 dB(A) (50 / 60 Hz)                 |
| Weight approx.                                    | 186 kg                                     | 202 kg                                     | 221 kg                                     |
| Dimensions (L x W x H)                            | 727 x 555 x 625 mm                         | 727 x 555 x 625 mm                         | 727 x 555 x 625 mm                         |
| Gas inlet / outlet                                | G 4" / G 4"                                | G 4" / G 4"                                | G 4" / G 4"                                |

|                                                   | SAMOS SB 1400 D0                           | SAMOS SB 1400 D0                           | SAMOS SB 1400 D0                           |
|---------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Nominal pumping speed/volume flow                 | 1320 / 1580 m <sup>3</sup> /h (50 / 60 Hz) | 1320 / 1580 m <sup>3</sup> /h (50 / 60 Hz) | 1320 / 1580 m <sup>3</sup> /h (50 / 60 Hz) |
| Max. differential pressure (vacuum version)       | -120 / -80 hPa (mbar) (50 / 60 Hz)         | -210 / -170 hPa (mbar) (50 / 60 Hz)        | -320 / -340 hPa (mbar) (50 / 60 Hz)        |
| Max. differential pressure (overpressure version) | +110 / +70 hPa (mbar) (50 / 60 Hz)         | +200 / +150 hPa (mbar) (50 / 60 Hz)        | +340 / +320 hPa (mbar) (50 / 60 Hz)        |
| Max. operating power                              | 8.5 / 9.8 kW (50 / 60 Hz)                  | 12.5 / 14.5 kW (50 / 60 Hz)                | 18.5 / 21.3 kW (50 / 60 Hz)                |
| Efficiency class                                  | IE n.d.                                    | IE n.d.                                    | IE n.d.                                    |
| Service factor                                    | 1.0                                        | 1.0                                        | 1.0                                        |
| Nominal motor speed                               | 2915 / 3490 min <sup>-1</sup> (50 / 60 Hz) | 2920 / 3500 min <sup>-1</sup> (50 / 60 Hz) | 2910 / 3500 min <sup>-1</sup> (50 / 60 Hz) |
| Noise level (ISO 3744)                            | 71 / 75 dB(A) (50 / 60 Hz)                 | 74 / 78 dB(A) (50 / 60 Hz)                 | 74 / 78 dB(A) (50 / 60 Hz)                 |
| Weight approx.                                    | 157 kg                                     | 174 kg                                     | 193 kg                                     |
| Dimensions (L x W x H)                            | 727 x 555 x 625 mm                         | 727 x 555 x 625 mm                         | 727 x 555 x 625 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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