

DATA SHEET

**SV 500/1**

# **SIDE CHANNEL BLOWERS**

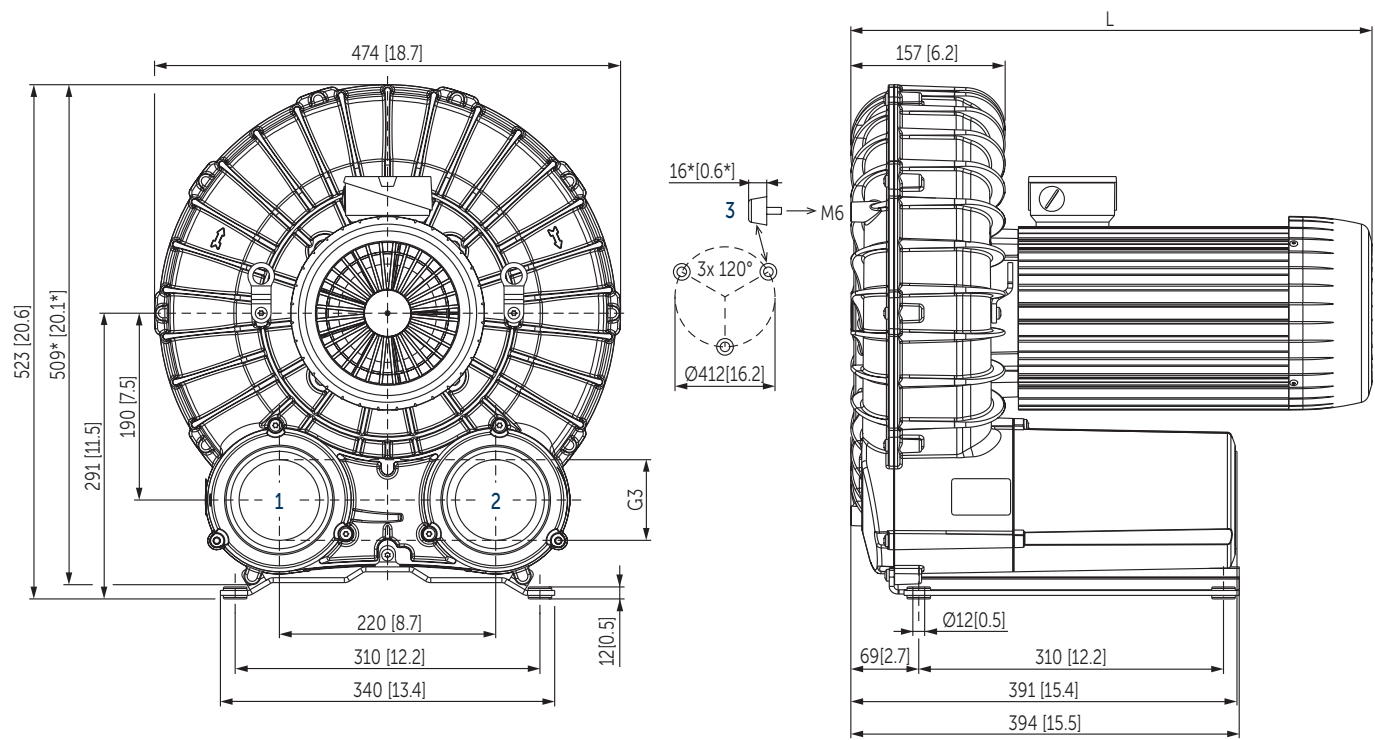
single stage

air-cooled

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**MAKE IT BECKER.**



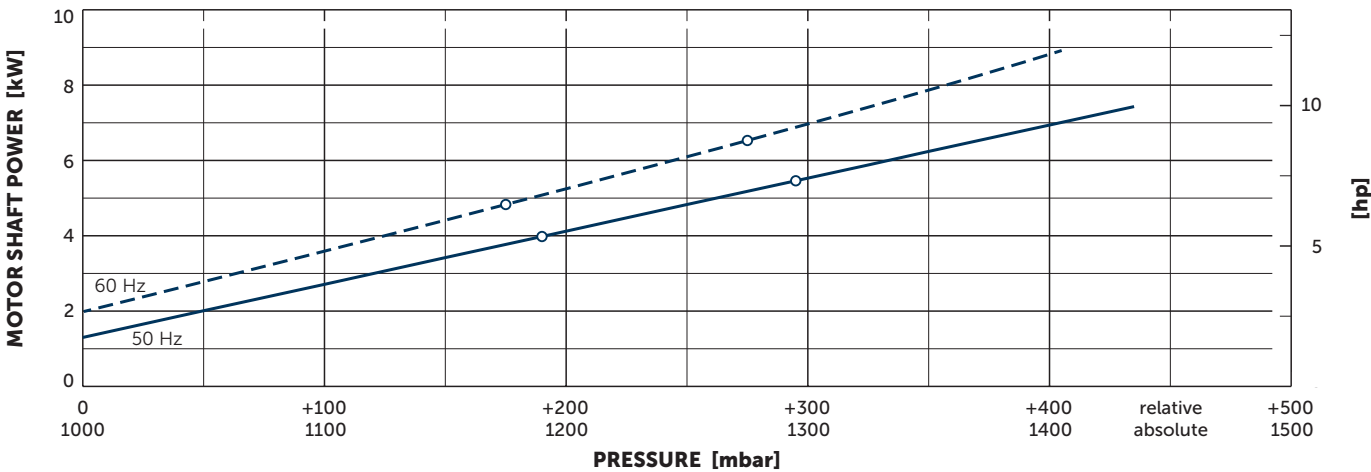
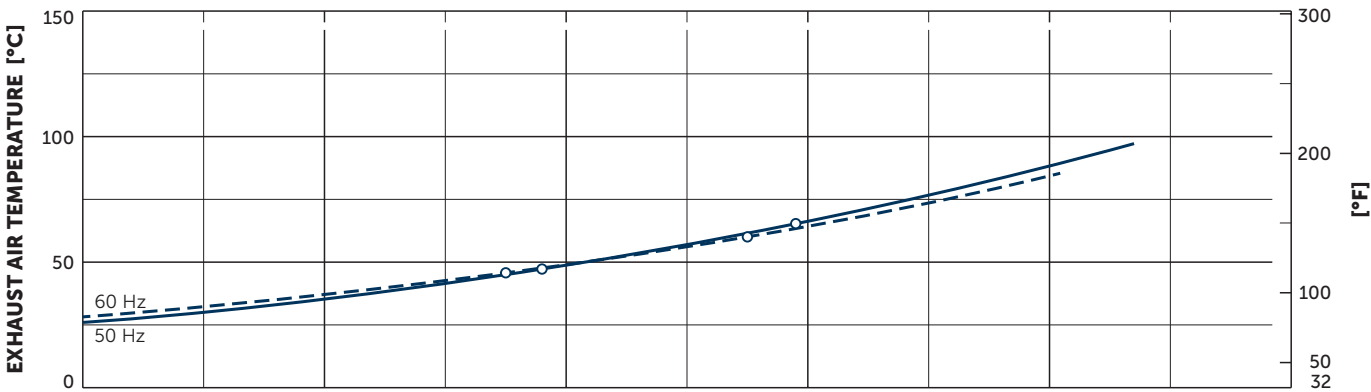
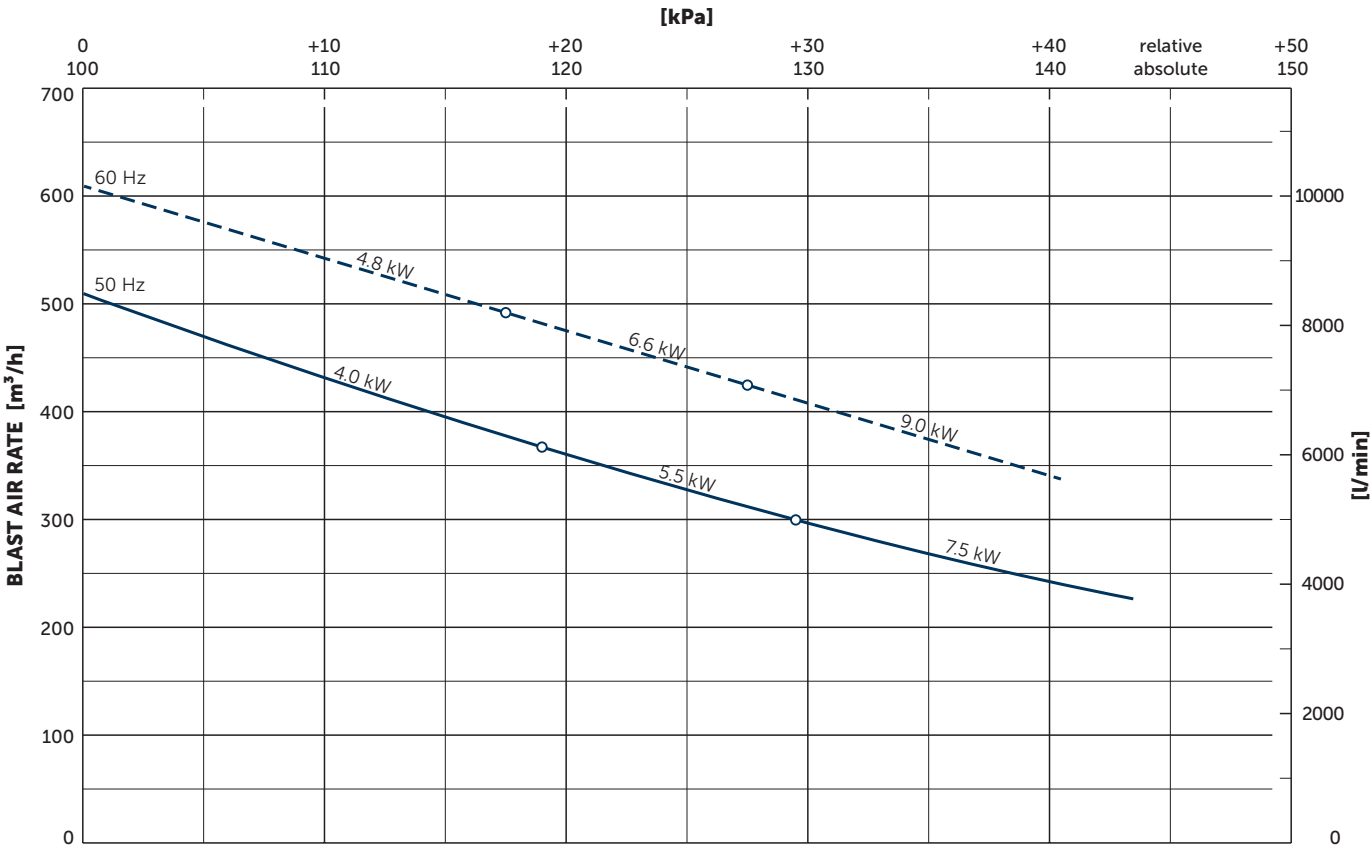


- 1 Vacuum connection (G3)
- 2 Pressure connection (G3)
- 3 Rubber buffer position (optional)
- \* Device dimensions without pedestal under the silencer, with rubber buffers on the enclosure cover
- The motor illustration may vary
- Dimensions in mm [inch]

| Blast air rate |       | Pressure relative |       | Motors |       | Emission sound pressure level <sup>1)</sup> |                  | Weight with motor | L          |
|----------------|-------|-------------------|-------|--------|-------|---------------------------------------------|------------------|-------------------|------------|
| m³/h           |       | mbar              |       | kW     |       | dB(A)                                       |                  | kg                | mm [inch]  |
| 50 Hz          | 60 Hz | 50 Hz             | 60 Hz | 50 Hz  | 60 Hz | 50 Hz                                       | 60 Hz            |                   |            |
| 510            | 610   | +190              | +175  | 4.0    | 4.8   | 71.6 (+225 mbar)                            | 74.1 (+220 mbar) | 61.5              | 496 [19.5] |
| 510            | 610   | +295              | +275  | 5.5    | 6.6   | 71.6 (+225 mbar)                            | 74.1 (+220 mbar) | 66.5              | 530 [20.9] |
| 510            | 610   | +435              | +405  | 7.5    | 9.0   | 75.4 (+310 mbar)                            | 77.4 (+300 mbar) | 75.5              | 600 [23.6] |

<sup>1)</sup> According to DIN EN ISO 11203, accuracy class of measurement: class 2, extended measurement uncertainty: 3 dB  
1 m [39.4 inch] distance, at medium load, both connection sides piped

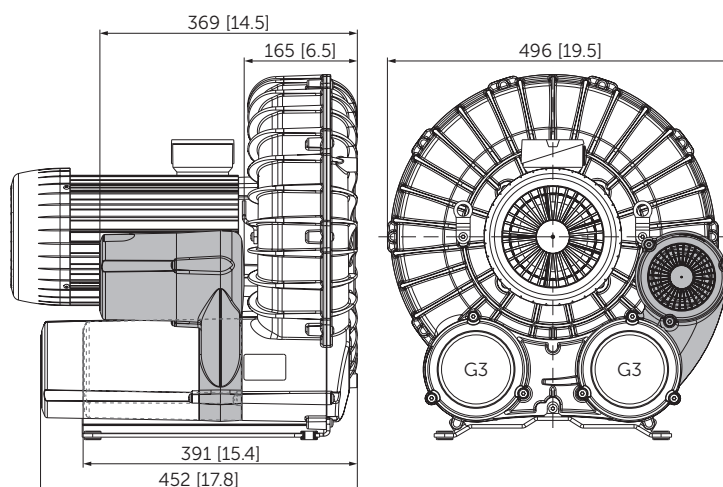
| 3~ Motors |       |           |     |                   |           |            |                                |            |                      |                                |                                         |
|-----------|-------|-----------|-----|-------------------|-----------|------------|--------------------------------|------------|----------------------|--------------------------------|-----------------------------------------|
| #         | 50 Hz |           |     |                   |           | 60 Hz      |                                |            |                      |                                | Version                                 |
|           | kW    | V         |     | min <sup>-1</sup> | A         | kW         | V                              |            | min <sup>-1</sup>    | A                              |                                         |
| 01        | 4.0   | Δ230/Y400 | IE3 | 2930              | 14.6/8.4  | 4.8        | Δ265/Y460<br>Δ230/Y400         | IE3<br>IE3 | 3520<br>3490         | 14.3/8.25<br>15.4/8.85         | UL • CSA<br>IP55 • ISO F • bimetal      |
| 02        |       |           |     |                   |           | 4.8        | YY230/Y460<br>YY208            | IE3        | 3520<br>3500         | 16.5/8.25<br>17.1              | UL • CSA<br>IP55 • ISO F • bimetal      |
| 03        | 4.0   | Δ200/Y350 | IE3 | 2930              | 16.6/9.6  | 4.8        | Δ220/Y380–400<br>Δ200/Y350     | IE3<br>IE3 | 3520<br>3490         | 16.6/9.6–9.45<br>17.7/10.1     | IP55 • ISO F • bimetal                  |
| 04        |       |           |     |                   |           | 4.8        | Δ400                           | IE3        | 3530                 | 9.0                            | UL • CSA • CC<br>IP55 • ISO F • bimetal |
| 05        | 5.5   | Δ400/Y690 | IE3 | 2930              | 11.9/6.9  | 6.6<br>5.5 | Δ460<br>Δ400/Y690              | IE3<br>IE3 | 3520<br>3520         | 11.5<br>10.2/5.9               | UL • CSA<br>IP55 • ISO F • bimetal      |
| 06        |       |           |     |                   |           | 6.6        | Δ230/Y400<br>Δ265/Y460<br>Δ208 | IE3<br>IE3 | 3496<br>3528<br>3470 | 20.6/11.9<br>19.9/11.5<br>22.5 | UL • CSA • CC<br>IP55 • ISO F • bimetal |
| 07        | 5.5   | Δ200/Y350 | IE3 | 2935              | 26.9/15.4 | 6.6        | Δ220/Y380–400<br>Δ200/Y350     | IE3<br>IE3 | 3530<br>3500         | 24.0/13.9–14.3<br>24.7/14.1    | IP55 • ISO F • bimetal                  |
| 08        |       |           |     |                   |           | 6.6        | Δ400/Y690                      | IE3        | 3520                 | 13.2/7.65                      | UL • CSA<br>IP55 • ISO F • bimetal      |
| 09        | 7.5   | Δ400/Y690 | IE3 | 2940              | 16.1/9.3  | 9.0        | Δ460<br>Δ400/Y690              | IE3<br>IE3 | 3535<br>3505         | 15.7<br>16.3/9.45              | UL • CSA<br>IP55 • ISO F • bimetal      |
| 10        |       |           |     |                   |           | 9.0        | YY230/Y460<br>YY208            | IE3        | 3545<br>3485         | 28.9/17.4<br>31.0              | UL • CSA • CC<br>IP55 • ISO F • bimetal |
| 11        | 7.5   | Δ200/Y350 | IE3 | 2945              | 38.1/21.8 | 9.0        | Δ220/Y380–400<br>Δ200/Y350     | IE3<br>IE3 | 3540<br>3520         | 32.8/19.0–20.0<br>33.3/19.1    | IP55 • ISO F • bimetal                  |
| 12        |       |           |     |                   |           | 9.0        | Δ400                           | IE3        | 3520                 | 17.2                           | UL • CSA • CC<br>IP55 • ISO F • bimetal |



Reference data (atmosphere): 1000 mbar (100 kPa), 20°C (68°F)  
Tolerance:  $\pm 10\%$   
Temperature: Ambient air -10°C ... 40°C (14°F ... 104°F), Inlet air 0°C ... 40°C (32°F ... 104°F)

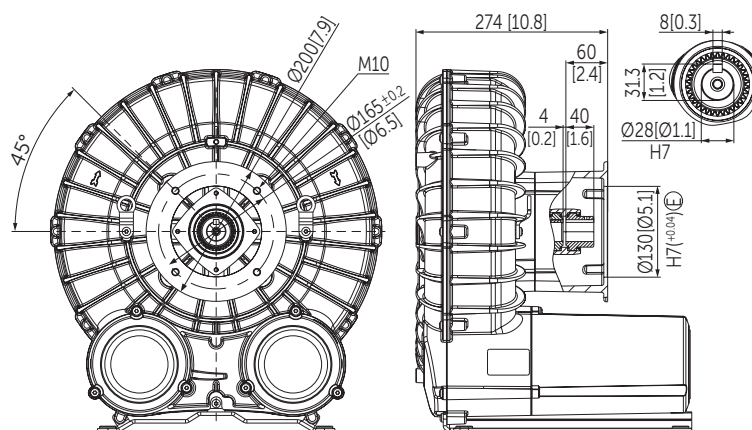
## **+** VARIANTS AND ACCESSORIES

### PRESSURE SAFETY VALVE



### WITHOUT MOTOR

- With coupling for flange motor
- The motor must be supported!



### OTHER VARIANTS AND ACCESSORIES

- External suction filter
- With increased corrosion protection
- VARIAIR SV 500/1 with frequency inverter VAU11-22/3 for 100 Hz operation<sup>1)</sup>
- Sound proof box SH 18<sup>1)</sup> – Not with 7.5/9.0 kW motors!

<sup>1)</sup> See separate data sheet

- Dimensions in mm [inch] – For other dimensions, see the figure on page 2.
- Possible combinations on request



Sound proof box SH 18



**MAKE IT BECKER.**