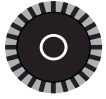
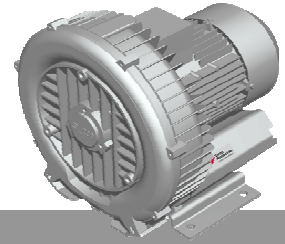


# G-BH1

## Data sheet 2BH1 200

### Side channel blower

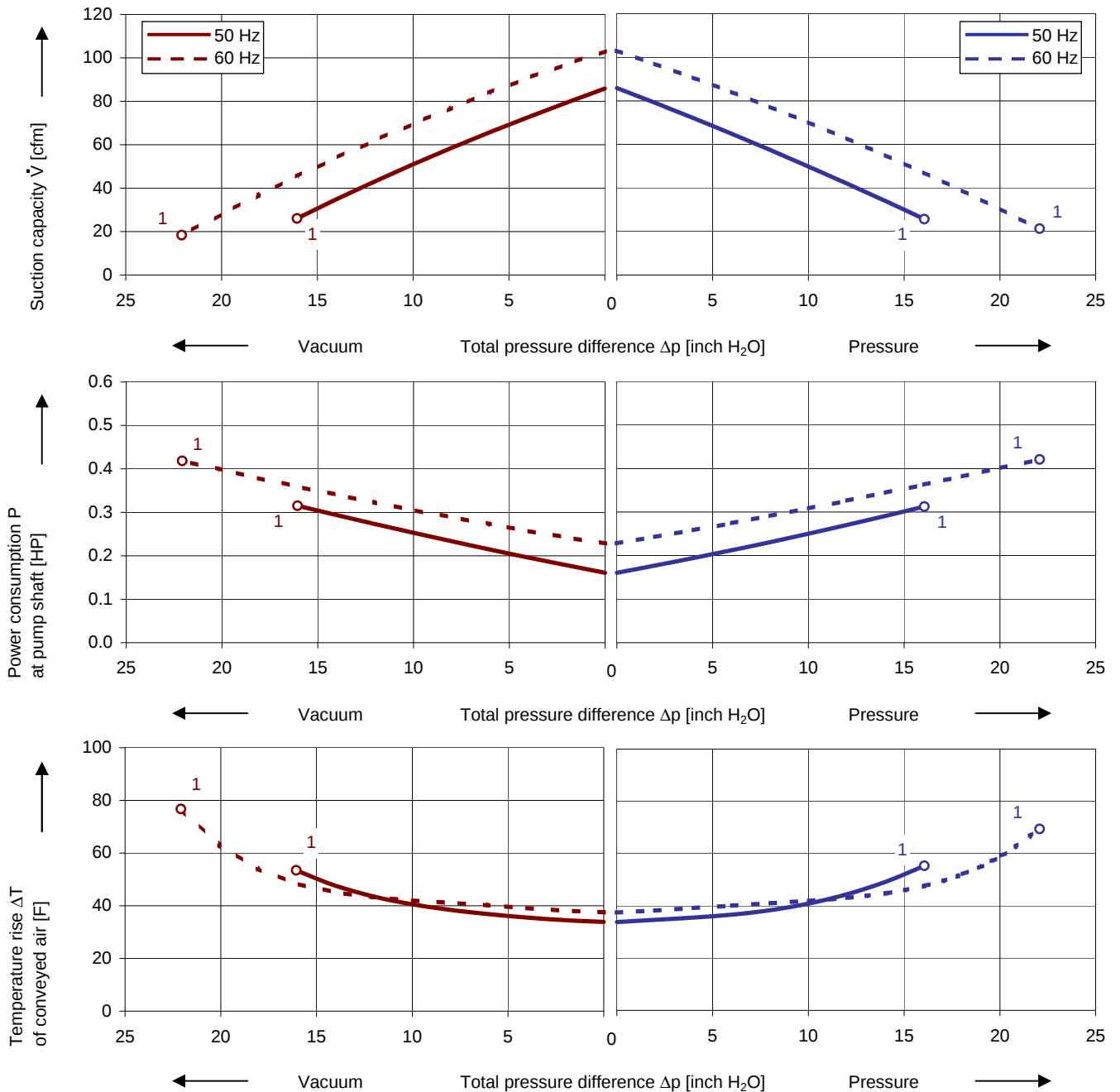
CAL<sup>®</sup> US



#### Performance curves

##### Vacuum operation

##### Compressor operation



The performance curves are based on air at a temperature of 59 F and an atmospheric pressure of 401.53 inch H<sub>2</sub>O with a tolerance of  $\pm 10\%$ . The total pressure differences are valid for suction and ambient temperature up to 77 F. For other conditions please get in touch with us.

Every G-BH pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F. The vacuum pumps / compressors are UL and CSA approved.

| No.                                                                                                                                                | Fre-<br>quency | Rated                 |                |       | Max. differential<br>pressure |          | Sound<br>pressure<br>level | Weight<br>Approx. | Order No.     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------|----------------|-------|-------------------------------|----------|----------------------------|-------------------|---------------|
|                                                                                                                                                    |                | Voltage               | Current        | Power | Vacuum                        | Pressure |                            |                   |               |
|                                                                                                                                                    | Hz             | V <sup>1)</sup>       | A              | hp    | inch H2O <sup>2)</sup>        |          | dB(A) <sup>3)</sup>        | lbs               |               |
| 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239)                                     |                |                       |                |       |                               |          |                            |                   |               |
| 1                                                                                                                                                  | 50             | 200-240 Δ / 345-415 Y | 1,38 Δ / 0,8 Y | 0,34  | -16                           | 16       | 57                         | 22                | 2BH1200-1AH06 |
|                                                                                                                                                    | 60             | 220-275 Δ / 380-480 Y | 1,74 Δ / 1,0 Y | 0,39  | -22                           | 22       | 61                         |                   |               |
| 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239)                                     |                |                       |                |       |                               |          |                            |                   |               |
| 1                                                                                                                                                  | 50             | 500 Y                 | 0,60 Y         | 0,34  | -16                           | 16       | 57                         | 22                | 2BH1200-1AC03 |
|                                                                                                                                                    | 60             | 575 Y                 | 0,76 Y         | 0,39  | -22                           | 22       | 61                         |                   |               |
| 1~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239), with capacitor for cont. operation |                |                       |                |       |                               |          |                            |                   |               |
| 1                                                                                                                                                  | 50             | 100 / 200             | 3,6 / 1,8      | 0,34  | -16                           | 16       | 57                         | 22                | 2BH1200-7AV04 |
|                                                                                                                                                    | 60             | 100 / 200             | 6,6 / 3,3      | 0,43  | -22                           | 22       | 61                         |                   |               |
| 1                                                                                                                                                  | 50             | 115 / 230             | 3,1 / 1,6      | 0,34  | -16                           | 16       | 57                         | 22                | 2BH1200-7AV05 |
|                                                                                                                                                    | 60             | 115 / 230             | 5,7 / 2,9      | 0,43  | -22                           | 22       | 61                         |                   |               |

- 1) In case of variable frequency drive operation the standard motor insulation system is suitable for VFD input voltages up to 460 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Surface sound pressure levels are according to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).

All G-BH blowers conform to the 2006/42/EC (machinery) and 2014/35/EU (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

The motors comply with EN 60 034 (IEC 60034) and thermal class F.

For three phase motors tolerances are +/-10% for fixed voltage motors and +/-5% for voltage range motors. Single phase machines are designed with a +/- 5% tolerance.

The frequency tolerance is +/- 2 % maximum.

| Motor for alternate voltages [V]                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                       |                       |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|
| Voltage range                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                     |                                                                                                  | Fixed voltage                                                                                    |                                                                                                                                                                             | VFD                                                                                                                                                                                                                                                                                                                                                      | c  US                                                                                                                                                                                                                                                                 |            |                                                                                       |                       |                                                                                       |
| 50 Hz                                                                                                                                                                                                                                                                                                                               | 60 Hz                                                                                                                                                                                                                                                                                                                               | 50 Hz                                                                                            | 60 Hz                                                                                            | 87 Hz                                                                                                                                                                       | 60 Hz                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                          | 2BH1200-.. |    | .                     |    |
|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                       |                       |                                                                                       |
| 3~                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                                                                                                  |                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                       |                       |                                                                                       |
| 185 - 225  / 320 - 390 Y<br>200 - 240  / 345 - 415 Y<br>345 - 415  / 600 - 720 Y | 200 - 240  / 345 - 415 Y<br>220 - 275  / 380 - 480 Y<br>380 - 480  / 660 - 720 Y | 500 Y<br>500  | 575 Y<br>575  | 380                                                                                      | <br><br><br> | <br><br><br> |            | H<br>H<br>H<br>C<br>C                                                                 | 1<br>6<br>7<br>3<br>5 |                                                                                       |
| Voltage range                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                     |                                                                                                  | Fixed voltage                                                                                    |                                                                                                                                                                             | VFD                                                                                                                                                                                                                                                                                                                                                      | c  US                                                                                                                                                                                                                                                               |            |                                                                                       |                       |                                                                                       |
| 50 Hz                                                                                                                                                                                                                                                                                                                               | 60 Hz                                                                                                                                                                                                                                                                                                                               | 50 Hz                                                                                            | 60 Hz                                                                                            | 87 Hz                                                                                                                                                                       | 60 Hz                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                          | 2BH1200-.. |  | .                     |  |
|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                                                                                                  |   |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                       |                       |                                                                                       |
| 3~                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                     |                                                                                                  | 3~ IE2 <sup>4)</sup>                                                                             |                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                       |                       |                                                                                       |
| 180 - 240 D / 310 - 415 Y<br>450 - 550 Y                                                                                                                                                                                                                                                                                            | 200 - 275 D / 345 - 480 Y<br>520 - 600 Y                                                                                                                                                                                                                                                                                            | 200 D / 345 Y<br>500 Y                                                                           | 230 D / 400 Y<br>575 Y                                                                           |                                                                                                                                                                             | <br><br>                                                                                  | <br><br>                                                                                  |            | P<br>P<br>P                                                                           | 1<br>3<br>5           |                                                                                       |
| 450 - 550 D                                                                                                                                                                                                                                                                                                                         | 520 - 600 D                                                                                                                                                                                                                                                                                                                         | 500 D                                                                                            | 575 D                                                                                            |                                                                                                                                                                             |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                     |            | P                                                                                     | 6                     |                                                                                       |
| 200 - 260 D / 350 - 450 Y<br>350 - 450 D / 610 - 725 Y                                                                                                                                                                                                                                                                              | 230 - 290 D / 400 - 500 Y<br>400 - 500 D / 690 - 725 Y                                                                                                                                                                                                                                                                              | 230 D / 400 Y<br>400 D / 690 Y                                                                   | 265 D / 460 Y<br>460 D                                                                           | 400                                                                                    | <br>                                                                                                                                                                           | <br>                                                                                                                                                                           |            | P<br>P                                                                                | 6<br>7                |                                                                                       |

- 4) Performance can differ if IE2 motors are used. Please refer to corresponding data sheets.

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given does not constitute an obligation from our side to deliver as shown.



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