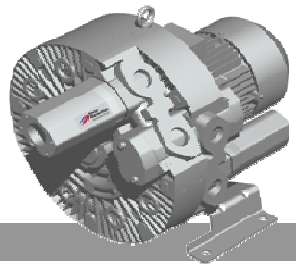
Elmo Rietschle
A Gardner Denver Product

# G-BH7

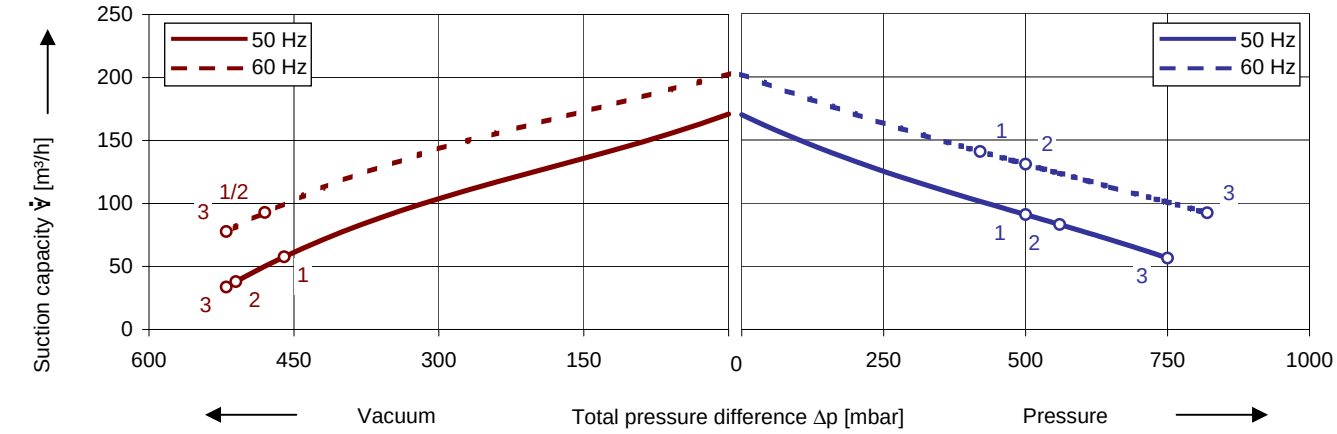
## Data sheet 2BH7 620-0A

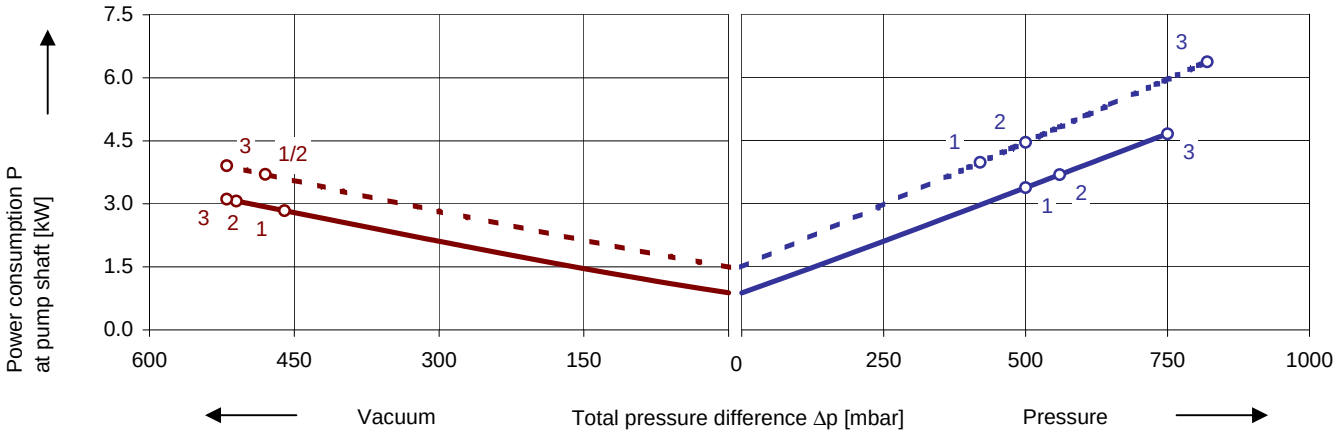
### Side channel blower

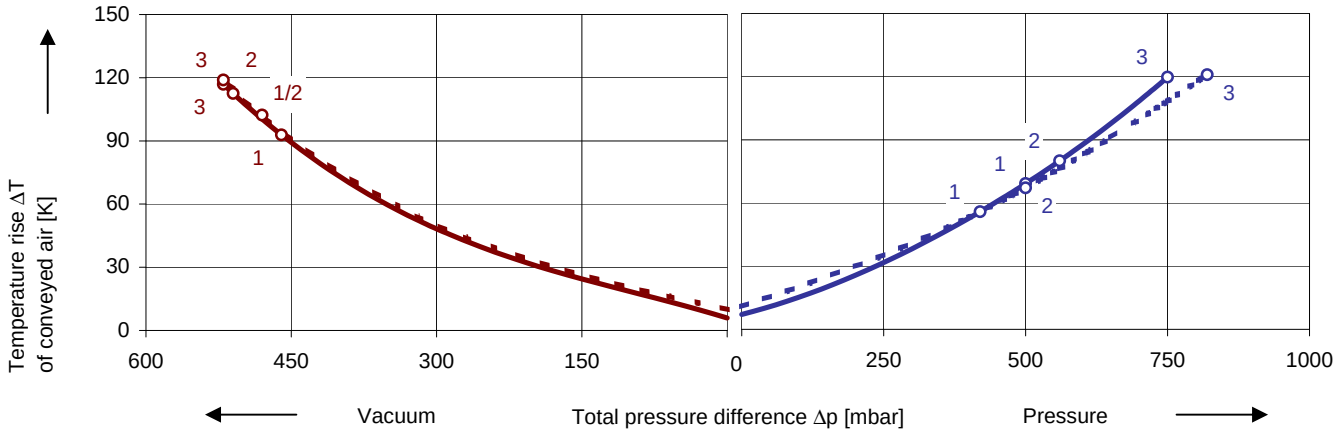


## Performance curves

**Vacuum operation** | **Compressor operation**




The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch wit h 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.

## Selection and ordering data

**Type 2BH7 620-0A**

| No. | Frequency | Rated | | | Max. differential pressure [2] | | Sound pressure level [3] | Weight Approx. | Order No. |
|---|---|---|---|---|---|---|---|---|---|
| | | Voltage [1] | Current | Power | Vacuum | Pressure | | | |
| | Hz | V | A | kW | mbar | | dB(A) | kg | |
| **3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)** | | | | | | | | | |
| 1 | 50 | 200 - 240 Δ / 345 - 415 Y | 13.0 Δ / 7.5 Y | 3.3 | -460 | 500 | 67 | 50 | **2BH7620-0AH36-8** |
| | 60 | 220 - 275 Δ / 380 - 480 Y | 13.8 Δ / 8.0 Y | 3.8 | -480 | 420 | 71 | | |
| 2 | 50 | 200 - 240 Δ / 345 - 415 Y | 14.0 Δ / 8.1 Y | 4.0 | -510 | 560 | 67 | 58 | **2BH7620-0AH46-8** |
| | 60 | 220 - 275 Δ / 380 - 480 Y | 15.0 Δ / 8.6 Y | 4.6 | -480 | 500 | 71 | | |
| 3 | 50 | 345 - 415 Δ | 11.5 Δ | 5.5 | -520 | 750 | 68 | 70 | **2BH7620-0AH57-8** |
| | 60 | 380 - 480 Δ | 12.0 Δ | 6.3 | -520 | 820 | 72 | | |
| **3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)** | | | | | | | | | |
| 1 | 50 | 500 Δ | 5.4 Δ | 3.3 | -460 | 500 | 67 | 50 | **2BH7620-0AC35-8** |
| | 60 | 575 Δ | 5.4 Δ | 3.8 | -480 | 420 | 71 | | |
| 2 | 50 | 500 Δ | Δ | 4.0 | -510 | 560 | 67 | 58 | **2BH7620-0AC45-8** |
| | 60 | 575 Δ | Δ | 4.6 | -480 | 500 | 71 | | |
| 3 | 50 | 500 Δ | 9.3 Δ | 5.5 | -520 | 750 | 68 | 70 | **2BH7620-0AC55-8** |
| | 60 | 575 Δ | 9.3 Δ | 6.3 | -520 | 820 | 72 | | |

1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 460 V.

2) Relief valves available for limiting differential pressure.

3) Measuring surface sound pressure level acc. 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 fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm “Rotating electrical machines”.

The motors comply with EN 60 034-1 / -2 / -30 (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.

## Andere Spannungen

| 50 Hz | 50 Hz Spannungsbereich | 60 Hz Spannungsbereich | 86 Hz (5000 1/min) | | 2BH7…-.. □ . □ |
|---|---|---|---|---|---|
| **3~** | | | | | |
| ----- | 185 - 225 V Δ / 320 - 390 V Y | 200 - 240 V Δ / 345 - 415 V Y | ----- | | **H 1** |
| ----- | 200 - 240 V Δ / 345 - 415 V Y | 220 - 275 V Δ / 380 - 480 V Y | 380 V Δ | | **H 6** |
| ----- | 345 - 415 V Δ | 380 - 480 V Δ | ----- | | **H 7** |
| ----- | 500 V Δ | 575 V Δ | ----- | | **C 5** |
| **IE2 3~ [5]** | **3~ [5]** | | | | |
| 200 V Δ / 345 V Y | 180 - 240 V Δ / 310 - 415 V Y | 200 - 275 V Δ / 345 - 480 V Y | ----- | | **P 1** |
| 500 V Δ | 450 - 550 V Δ | 520 - 600 V Δ | ----- | | **P 5** |
| 230 V Δ / 400 V Y | 200 - 260 V Δ / 350 - 450 V Y | 230 - 290 V Δ / 400 - 500 V Y | 400 V Δ | | **P 6** |
| 400 V Δ / 690 V Y | 350 - 450 V Δ / 610 - 725 V Y | 400 - 500 V Δ / 690 - 725 V Y | ----- | | **P 7** |

5) Bei Einsatz von Energiesparmotoren können sich die Leistungsdaten ändern. Bitte beachten Sie die entsprechenden Datenblätter.



Gardner Denver

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