

G-BH1

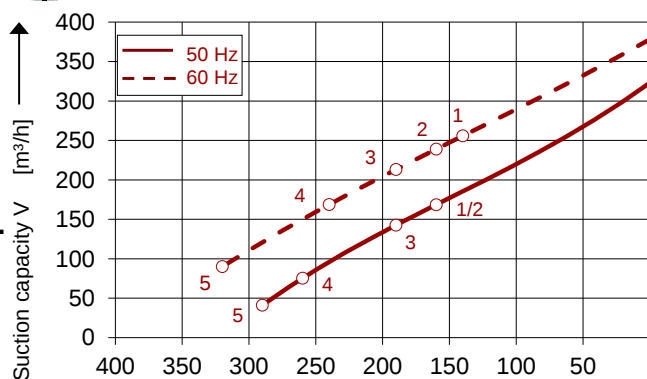
Data sheet 2BH1 600

Side channel blower

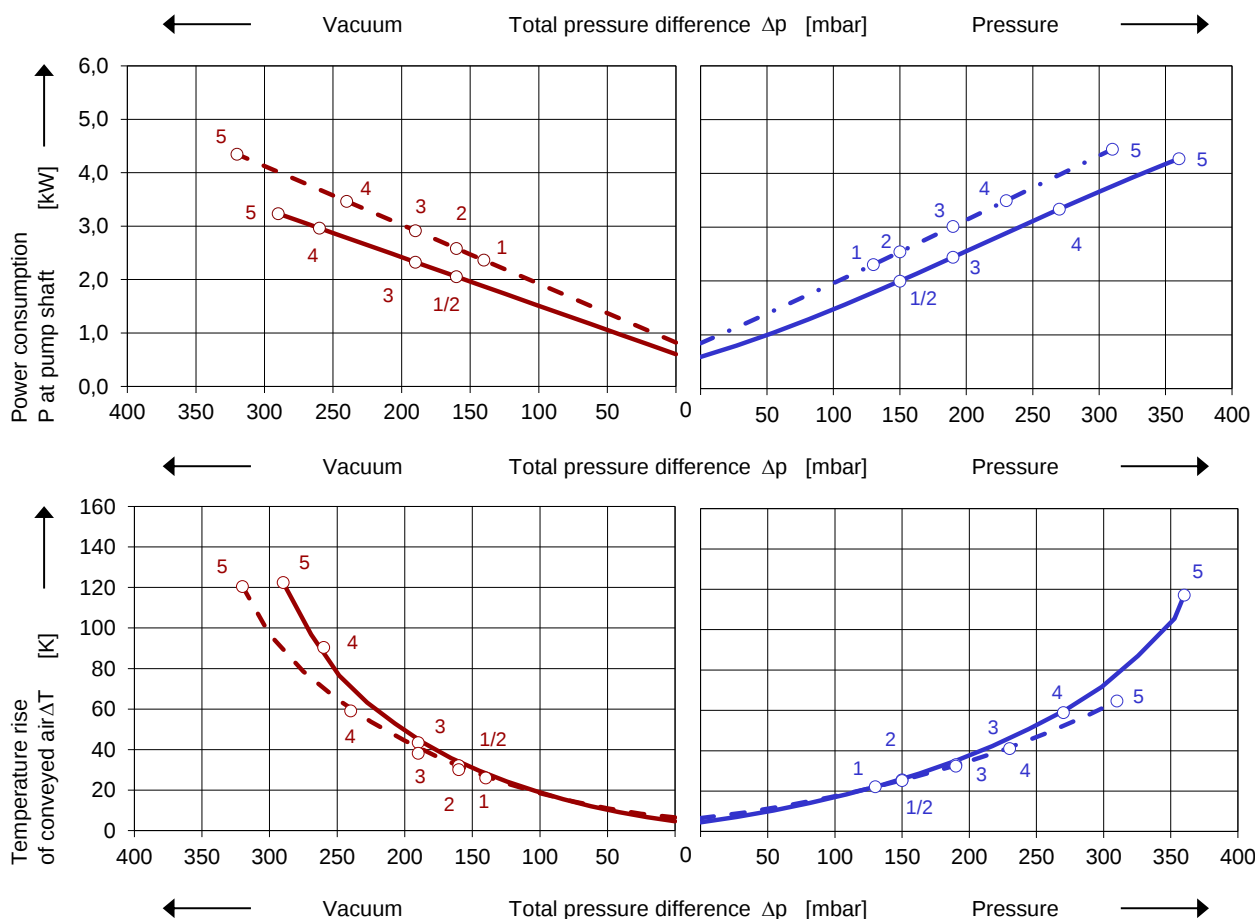
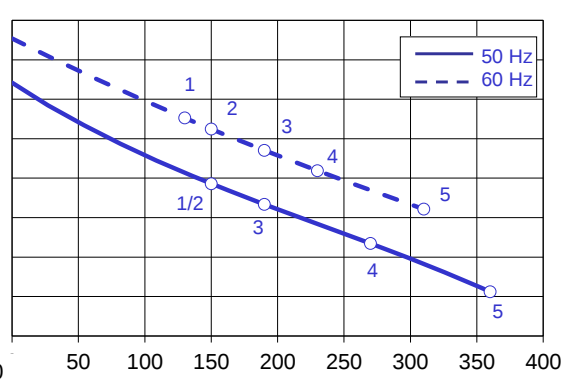


Performance curves

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 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.

Selection and ordering data									
Type 2BH1 600									
No.	Fre- quency	Rated			Max. differential pressure		pressure level	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure			
	Hz	V ¹⁾	A	kW	mbar ²⁾		dB(A) ³⁾	kg	
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239)									
2	50	200-240 Δ / 345-415 Y	8,5 Δ / 4,9 Y	1,6	-160	150	69	27	2BH1600-7AH06
	60	220-275 Δ / 380-480 Y	8,8 Δ / 5,1 Y	2,05	-160	150	72		
3	50	200-240 Δ / 345-415 Y	9,7 Δ / 5,6 Y	2,2	-190	190	69	30	2BH1600-7AH16
	60	220-275 Δ / 380-480 Y	10,3 Δ / 6,0 Y	2,55	-190	190	72		
4	50	200-240 Δ / 345-415 Y	12,5 Δ / 7,2 Y	3,0	-260	270	71	37	2BH1600-1AH26
	60	220-275 Δ / 380-480 Y	12,6 Δ / 7,3 Y	3,45	-240	230	75		
5	50	200-240 Δ / 345-415 Y	15,6 Δ / 9,0 Y	4,0	-290	360	71	47	2BH1600-1AH36
	60	220-275 Δ / 380-480 Y	15,6 Δ / 9,0 Y	4,6	-320	310	75		
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	3,2 Y	1,5	-160	150	69	26	2BH1600-7AC03
	60	575 Y	3,2 Y	1,75	-140	130	72		
3	50	500 Y	4,5 Y	2,2	-190	190	69	29	2BH1600-7AC13
	60	575 Y	4,55 Y	2,55	-190	190	72		
4	50	500 Y	5,7 Y	3,0	-260	270	71	37	2BH1600-1AC23
	60	575 Y	5,8 Y	3,45	-240	230	75		
5	50	500 Y	7,5 Y	4,0	-290	360	71	47	2BH1600-1AC33
	60	575 Y	7,6 Y	4,6	-320	310	75		

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 match 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		2BH1600--	
						Δ	Y		
3-									
185 - 225 Δ / 320 - 390 Y	200 - 240 Δ / 345 - 415 Y				380 Δ	•	•		H 1
200 - 240 Δ / 345 - 415 Y	220 - 275 Δ / 380 - 480 Y					•	•		H 6
345 - 415 Δ / 600 - 720 Y	380 - 480 Δ / 660 - 720 Y					•	•		H 7
		500 Y		575 Y		•	•		C 3
		500 Δ		575 Δ					C 5
Voltage range						efficiency degree ⁴⁾	c  US		
50 Hz	60Hz						60 Hz	2BH1600--	
3- IE3  ⁵⁾									
200 Δ	200 YY / 230 Δ / 400 Y					•			K 1
190-210 Δ	190-210 YY / 220-240 Δ / 380-420 Y				IE3	•			
200 YY / 230 Δ / 400 Y	230 YY / 460 Y					•			K 6
190-210 YY / 220-240 Δ / 380-420 Y	220-240 YY / 440-480 Y				IE3	•			
475-525 V Y	550-600 V Y					•			Q 3
475-525 V Δ	550-600 V Δ					•			Q 5
400 V Δ / 690 V Y	460 V Δ					•			Q 7

4) The motors according to NEMA MG1-12. NP=NEMA Premium; NEMA Premium includes IE3.

5) Performance can differ if IE3/NP 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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