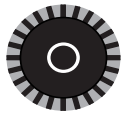


G-BH1

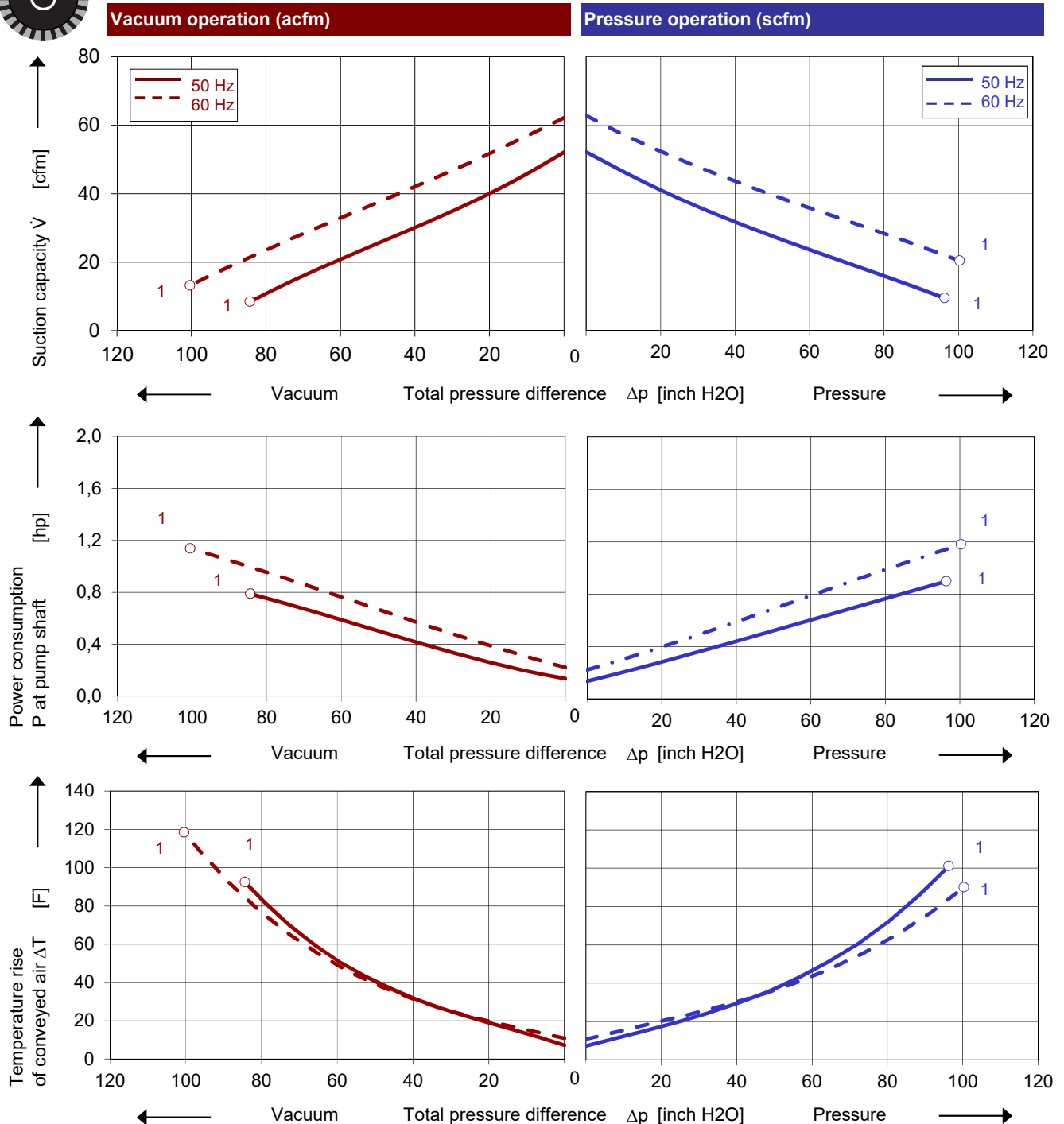
Data sheet 2BH1 310

Side channel blower

UL[®] US



Performance curves



The performance curves are based on air at a temperature of 59 F and an atmospheric pressure of 29.92 inch Hg with a tolerance of $\pm 10\%$. The total Suction capacity relates to inlet conditions. Pressure capacity relates to atmospheric conditions. For other conditions please contact Elmo Rietschle.

Every G-BH blower can be used either for vacuum or pressure in continuous operation over the total performance curve range. The standard motors have a protection category of IP 55 and insulation class F. These blowers are UL and CSA approved.

Selection and ordering data

Type 2BH1 310									
No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Weight Approx.	Order No.
		Voltage	Current	Power	Vacuum	Pressure			
	Hz	V ¹⁾	A	hp	inch H2O ²⁾		dB(A) ³⁾	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	3,8 Δ / 2,20 Y	0,94	-84	96	56	35	2BH1310-1HH26
	60	220-275 Δ / 380-480 Y	3,75 Δ / 2,15 Y	1,11	-100	100	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	1,49 Y	0,94	-84	96	56	35	2BH1310-1HC23
	60	575 Y	1,46 Y	1,11	-100	100	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	Δ	Y	2BH1310-.. □ . □
3~								
185 - 225 Δ / 320 - 390 Y 200 - 240 Δ / 345 - 415 Y 345 - 415 Δ / 600 - 720 Y	200 - 240 Δ / 345 - 415 Y 220 - 275 Δ / 380 - 480 Y 380 - 480 Δ / 660 - 720 Y	500 Y 500 Δ	575 Y 575 Δ	380 Δ	• • • •	• • • •		H H H C C 1 6 7 3 5
Voltage range		Fixed voltage		VFD	C  US			
50 Hz	60 Hz	50 Hz	60 Hz	87 Hz	60 Hz	Δ	Y	2BH1310-.. □ . □
3~ IE2 ⁴⁾								
180 - 240 D / 310 - 415 Y 450 - 550 Y	200 - 275 D / 345 - 480 Y 520 - 600 Y	200 D / 345 Y 500 Y	230 D / 400 Y 575 Y		• • •	• • •		P P P 1 3 5
450 - 550 D	520 - 600 D	500 D	575 D		•	•		P 5
200 - 260 D / 350 - 450 Y 350 - 450 D / 610 - 725 Y	230 - 290 D / 400 - 500 Y 400 - 500 D / 690 - 725 Y	230 D / 400 Y 400 D / 690 Y	265 D / 460 Y 460 D	400 Δ	• •	• •		P P 6 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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