

Elmo Rietschle

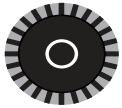
G-BH1

Data sheet 2BH1 500

Side channel blower with IE2-motors

IE2

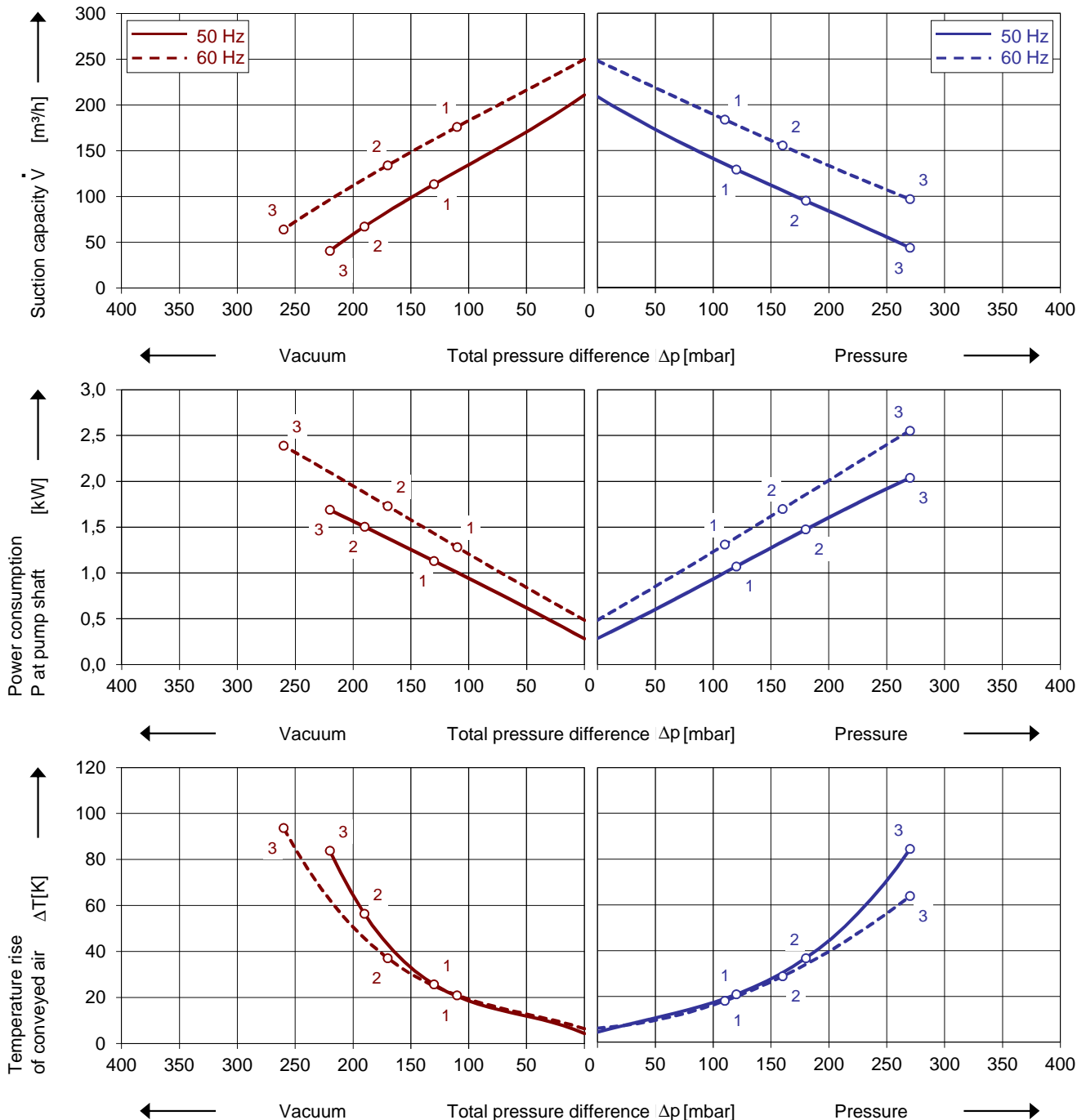
CE US



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 500

No.	Fre- quency	Rated			Max. differential pressure ²⁾		Sound pressure level ³⁾	Weight Approx.	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure			
		Hz	V	A	kW	mbar			
IE2 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239)									
1	50	230 Δ / 400 Y	3.9 Δ / 2.25 Y	1.1	-130	120	64	23	2BH1500-7AP16
	60	265 Δ / 460 Y	3.8 Δ / 2.15 Y	1.27	-110	110	70		
2	50	230 Δ / 400 Y	5.3 Δ / 3.05 Y	1.5	-190	180	64	21	2BH1500-7AP26
	60	265 Δ / 460 Y	5.1 Δ / 2.95 Y	1.75	-170	160	70		
3	50	230 Δ / 400 Y	7.6 Δ / 4.4 Y	2.2	-220	270	64	28	2BH1500-7AP36
	60	265 Δ / 460 Y	7.6 Δ / 4.4 Y	2.55	-260	270	70		
IE2 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	1.79 Y	1.1	-130	120	64	23	2BH1500-7AP13
	60	575 Y	1.76 Y	1.27	-110	110	70		
2	50	500 Y	2.45 Y	1.5	-190	180	64	21	2BH1500-7AP23
	60	575 Y	2.4 Y	1.75	-170	160	70		
3	50	500 Y	3.5 Y	2.2	-220	270	64	28	2BH1500-7AP33
	60	575 Y	3.5 Y	2.55	-260	270	70		

- In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 460 V.
- Relief valves available for limiting differential pressure.
- 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 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.

Motor for alternate voltages

Voltage range		Fixed voltage		VFD	RU ^{US}		
50 Hz	60 Hz	50 Hz	60 Hz	87 Hz	60 Hz		2BH1500-7. □ . □
					Δ	Y	
3~ ⁵⁾							
185 - 225 V Δ / 320 - 390 V Y 200 - 240 V Δ / 345 - 415 V Y 345 - 415 V Δ / 600 - 720 V Y	200 - 240 V Δ / 345 - 415 V Y 220 - 275 V Δ / 380 - 480 V Y 380 - 480 V Δ / 660 - 720 V Y	500 V Δ 500 V Y	575 V Δ 575 V Y	380 V Δ	•	•	H 1 H 6 H 7 C 3 C 5
		IE2 3~					
180 - 240 V Δ / 310 - 415 V Y 450 - 550 V Y 450 - 550 V Δ	200 - 275 V Δ / 345 - 480 V Y 520 - 600 V Y 520 - 600 V Δ	200 V Δ / 345 V Y 500 V Y 500 V Δ	230 V Δ / 400 V Y 575 V Y 575 V Δ	400 V Δ	•	•	P 1 P 3 P 5 P 6 P 7
200 - 260 V Δ / 350 - 450 V Y 350 - 450 V Δ / 610 - 725 V Y	230 - 290 V Δ / 400 - 500 V Y 400 - 500 V Δ / 690 - 725 V Y	230 V Δ / 400 V Y 400 V Δ / 690 V Y	265 V Δ / 460 V Y 460 V Δ		•	•	

- Performance can differ if IE1 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 do not constitute an obligation from our side to deliver as shown.

Elmo Rietschle is a brand of Gardner Denver

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