

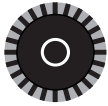
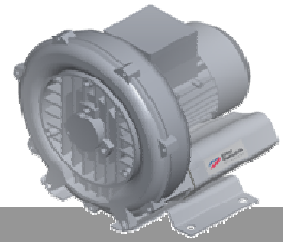


Elmo Rietschle

G-BH1

Data sheet 2BH1 400

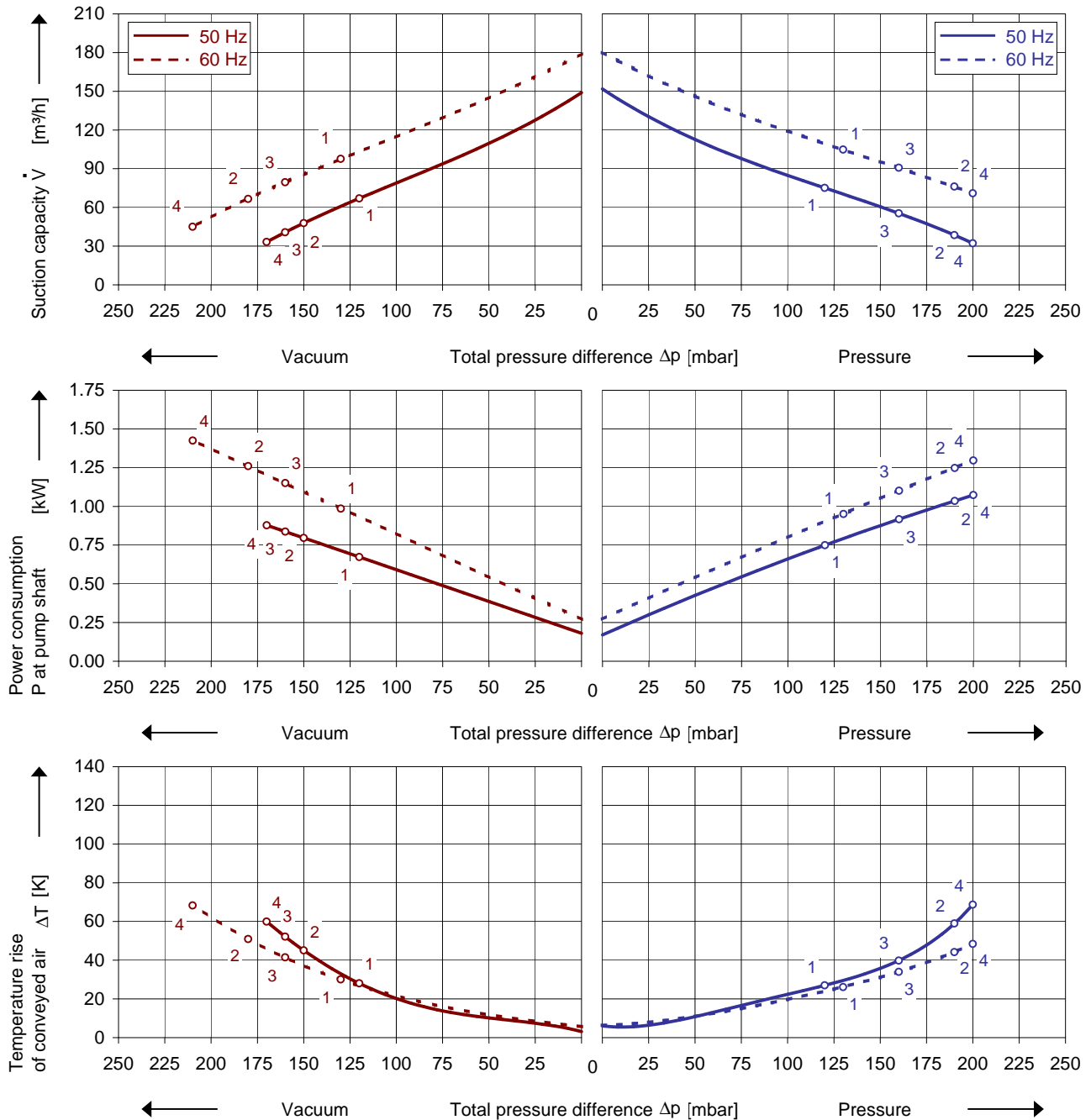
Side channel blower



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 $\pm 10\%$. 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 400

No.	Fre- quency	Rated			Max. differential pressure ²⁾		Sound pressure level ³⁾	Weight Approx.	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure			
					mbar				
Hz	V	A	kW			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	3.8 Δ / 2.2 Y	0.7	-120	120	63	13	2BH1400-7AH06
	60	220-275 Δ / 380-480 Y	3.8 Δ / 2.15 Y	0.83	-130	130	64		
3	50	200-240 Δ / 345-415 Y	4.2 Δ / 2.4 Y	0.85	-160	160	63	16	2BH1400-7AH16
	60	220-275 Δ / 380-480 Y	4.0 Δ / 2.3 Y	0.95	-160	160	64		
4	50	200-240 Δ / 345-415 Y	5.7 Δ / 3.3 Y	1.3	-170	200	63	19	2BH1400-7AH26
	60	220-275 Δ / 380-480 Y	5.7 Δ / 3.3 Y	1.5	-210	200	64		
3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)									
1	50	500 Y	1.88 Y	0.7	-120	120	63	13	2BH1400-7AC03
	60	575 Y	1.76 Y	0.83	-130	130	64		
3	50	500 Y	1.9 Y	0.85	-160	160	63	16	2BH1400-7AC13
	60	575 Y	1.95 Y	0.95	-160	160	64		
4	50	500 Y	2.65 Y	1.1	-170	200	63	19	2BH1400-7AC23
	60	575 Y	2.6 Y	1.5	-210	200	64		
1~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239), with attached capacitor for cont. operation									
2	50	115 / 230	13.0 / 6.5	1.1	-150	190	63	17	2BH1400-7AV25
	60	115 / 230	14.0 / 7.0	1.3	-180	190	64		

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 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.

Motors for other mains

Voltage range		Fixed voltage		VFD	c  us		
50 Hz	60 Hz	50 Hz	60 Hz	87 Hz	60 Hz	2BH1400-7. <input type="checkbox"/> <input type="checkbox"/>	
					Δ	Y	
3~							
185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y			380 V Δ	•	•	H 1
200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y				•	•	H 6
345 - 415 V Δ / 600 - 720 V Y	380 - 480 V Δ / 660 - 720 V Y			•	•	H 7	
		500 V Y	575 V Y		•	•	C 3
		500 V Δ	575 V Δ		•	•	C 5
3~							
		IE2 3~ ⁵⁾					
180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	200 V Δ / 345 V Y	230 V Δ / 400 V Y	400 V Δ	•	•	P 1
450 - 550 V Y	520 - 600 V Y	500 V Y	575 V Y		•	•	P 3
450 - 550 V Δ	520 - 600 V Δ	500 V Δ	575 V Δ	•	•	P 5	
200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	230 V Δ / 400 V Y	265 V Δ / 460 V Y	•	•	P 6	
350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	400 V Δ / 690 V Y	460 V Δ	•	•	P 7	

5) 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 do not constitute an obligation from our side to deliver as shown.

Elmo Rietschle is a brand of Gardner Denver

**Gardner
Denver**

Your Ultimate Source for Vacuum and Pressure

Gardner Denver Deutschland GmbH

Industriestraße 26
97616 Bad Neustadt - Germany

Tel.: +49 9771 6888-0

Fax: +49 9771 6888-4000

www.gd-elmorietschle.com • er.de@gardnerdenver.com

Gardner Denver Schopfheim GmbH

Roggenbachstraße 58
79650 Schopfheim - Germany

Tel.: +49 7622 392-0

Fax: +49 7622 392-300