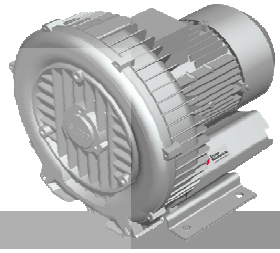
Elmo Rietschle
A Gardner Denver Product

G-BH1

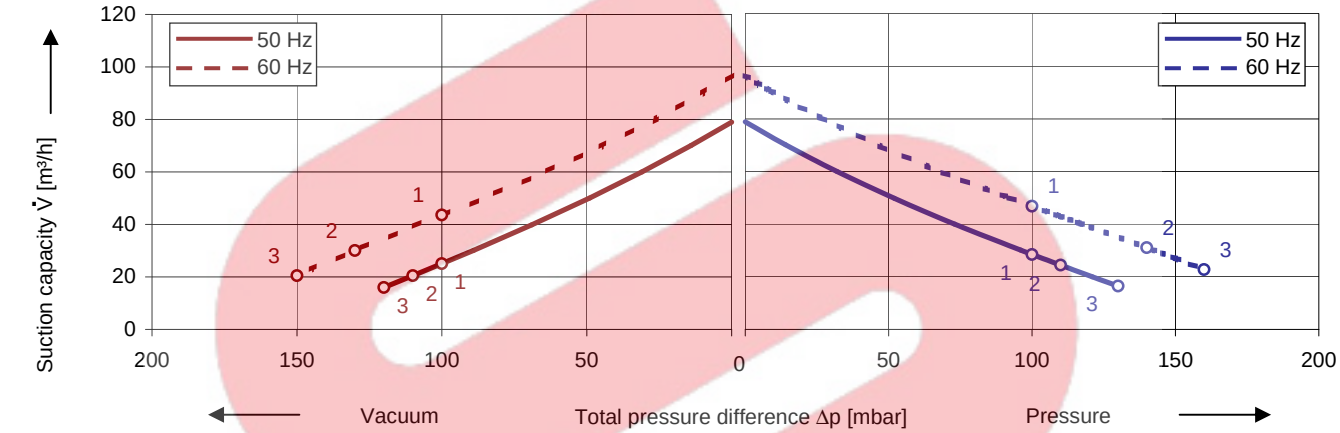
Data sheet 2BH1 300

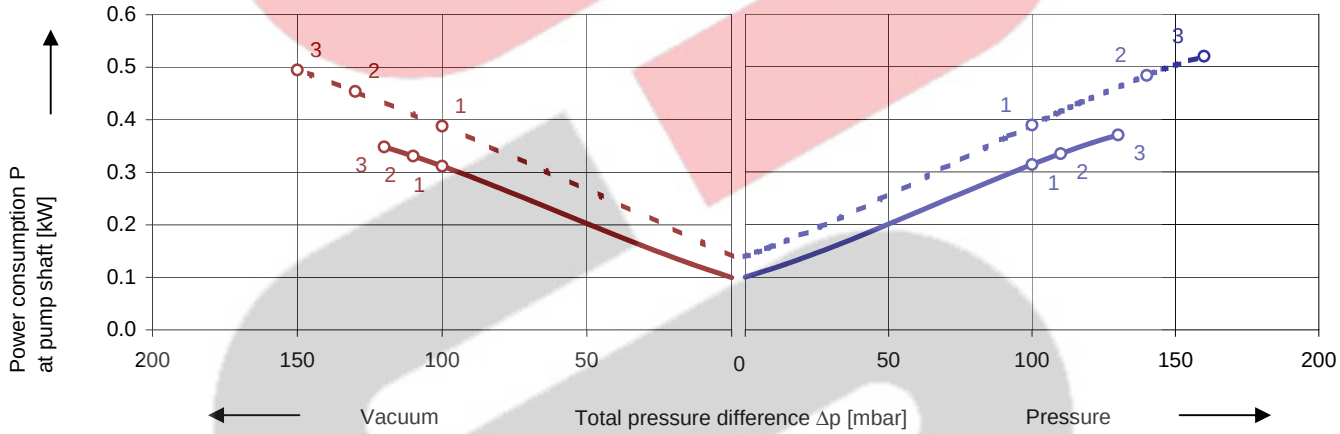
Side channel blower

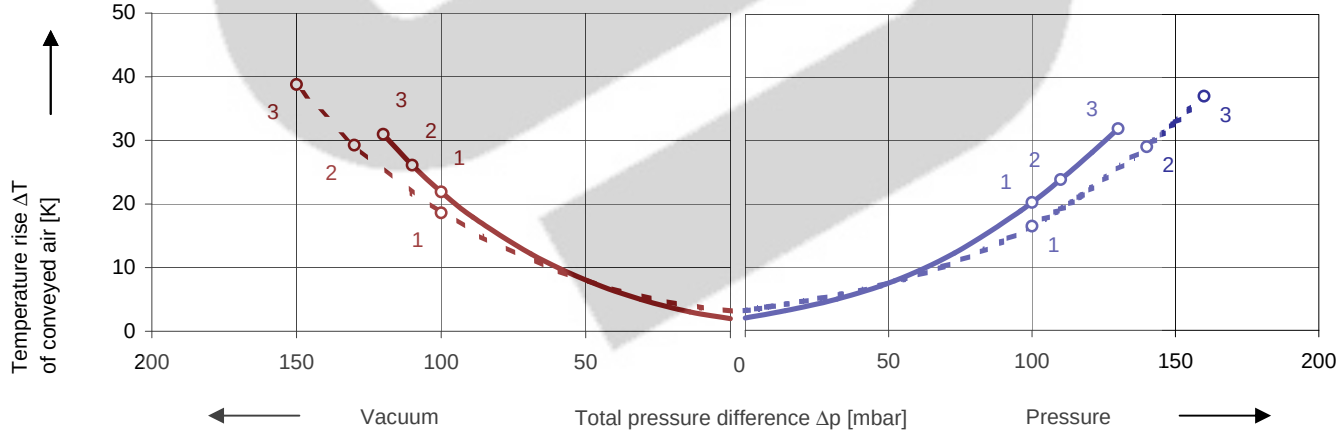


Performance curves

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 2BH1 300

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		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	2.10 Δ / 1.2 Y	0.25	-100	100	53	8	**2BH1300-7AH06**
	60	220 - 275 Δ / 380 - 480 Y	1.74 Δ / 1.0 Y	0.29	-100	100	56		
3	50	200 - 240 Δ / 345 - 415 Y	2.60 Δ / 1.5 Y	0.40	-120	130	53	10	**2BH1300-7AH16**
	60	220 - 275 Δ / 380 - 480 Y	2.60 Δ / 1.5 Y	0.50	-150	160	56		
3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)									
1	50	500 Δ	0.72 Δ	0.25	-100	100	53	8	**2BH1300-7AC05**
	60	575 Δ	0.76 Δ	0.29	-100	100	56		
3	50	500 Δ	1.03 Δ	0.40	-120	130	53	10	**2BH1300-7AC15**
	60	575 Δ	1.10 Δ	0.50	-150	160	56		
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	100 / 200	6.5 / 3.2	0.37	-110	110	53	10	**2BH1300-7AV14**
	60	100 / 200	8.3 / 4.1	0.45	-130	140	56		
2	50	115 / 230	5.4 / 2.7	0.37	-110	110	53	10	**2BH1300-7AV15**
	60	115 / 230	6.6 / 3.3	0.45	-130	140	56		

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.

Other voltages

50 Hz	50 Hz voltage range	60 Hz voltage range	86 Hz (5000 rpm)		2BH1…-7. □ . □
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 Y	450 - 550 V Y	520 - 600 V Y	-----		**P 3**
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) Performance can differ if high effiiciency motors are used. Please refer to corresponding data sheets.

Gardner Denver

Elmo Rietschle is a brand of Gardner Denver's Industrial Products Group and part of Blower Operations

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