G-BH1

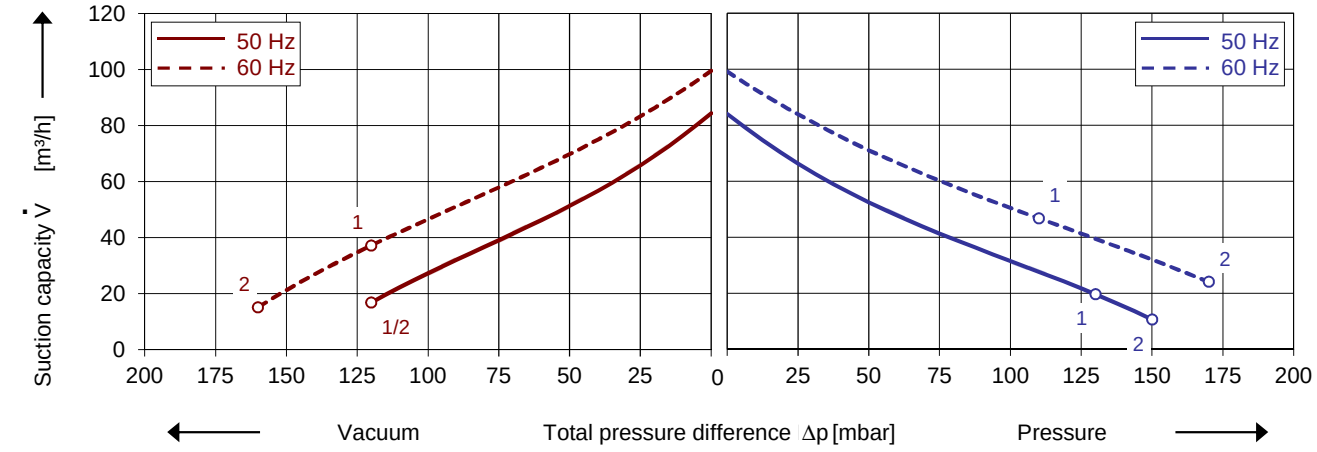
Data sheet 2BH1 300

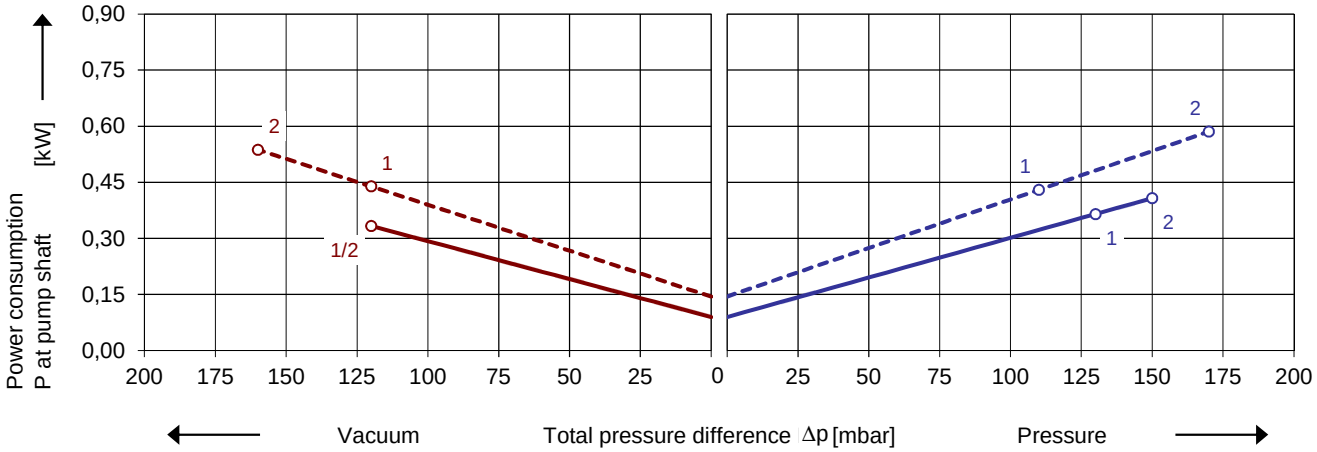
Side channel blower with IE2-motors

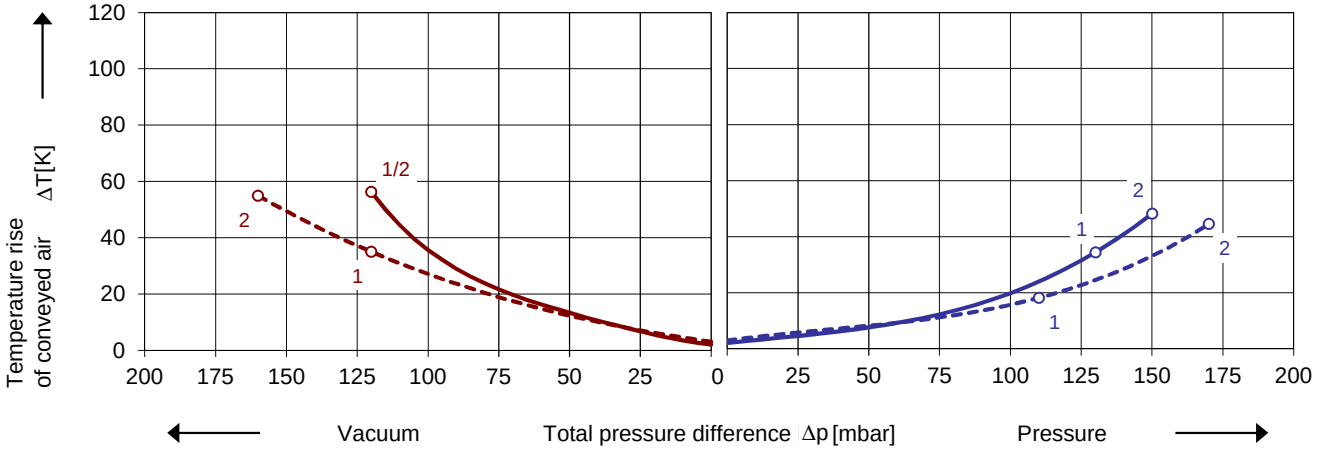
IE2

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 300

No.	Frequency	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	
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	1.7 Δ / 0.95 Y	0.37	-120	130	53	10	**2BH1300-7AP16**
	60	265 Δ / 460 Y	1.7 Δ / 0.99 Y	0.43	-120	110	56		
2	50	230 Δ / 400 Y	2.5 Δ / 1.42 Y	0.55	-120	150	53	11	**2BH1300-7AP26**
	60	265 Δ / 460 Y	2.5 Δ / 1.42 Y	0.63	-160	170	56		
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	0.76 Y	0.37	-120	130	53	10	**2BH1300-7AP13**
	60	575 Y	0.79 Y	0.43	-120	110	56		
2	50	500 Y	1.14 Y	0.55	-120	150	53	11	**2BH1300-7AP23**
	60	575 Y	1.14 Y	0.63	-160	170	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 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	cULus			
50 Hz	**60 Hz**	**50 Hz**	**60 Hz**	**87 Hz**	**60 Hz** Δ	**60 Hz** Y	**2BH1300-7.** □ . □	
3~ [5]								
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 / 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~**						
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		•	•	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	400 V Δ	•	•	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 IE1 motors are used. Please refer to corresponding data sheets.

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

Gardner Denver Schopfheim GmbH
Roggenbachstraße 58
79650 Schopfheim - Germany
Tel.: +49 7622 392-0
Fax: +49 7622 392-300

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