



G-BH2

Data sheet 2BH2 0540-1

Side channel blower with IE2-motors

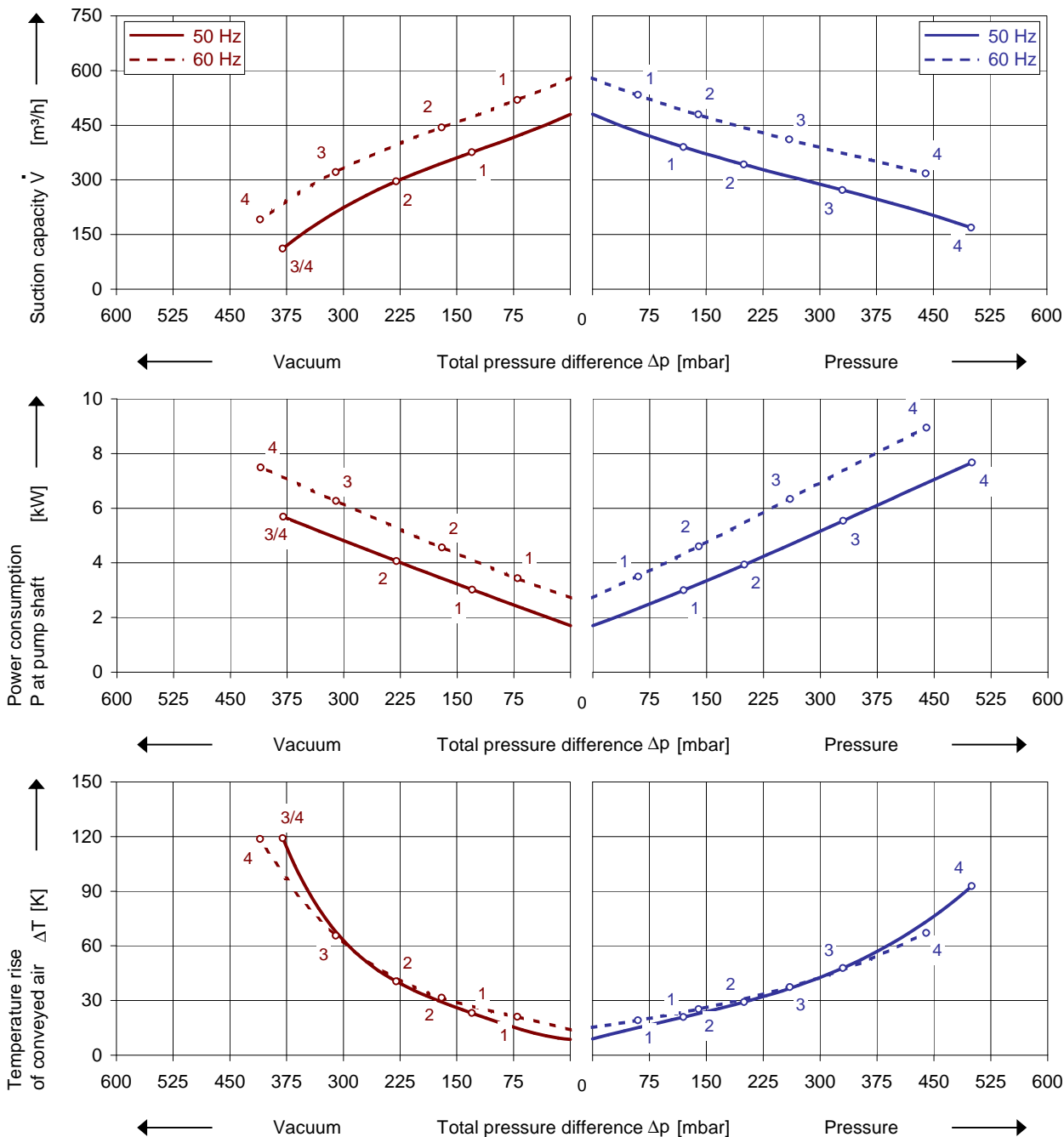
IE2



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 $\pm 10\%$. 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 2BH2 0540-1

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)	
IE2 3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)									
1	50	230 Δ / 400 Y	10.1 Δ / 5.8 Y	3.0	-130	120	69	74	2BH20540-1AAPK6-AA
	60	265 Δ / 460 Y	9.7 Δ / 5.6 Y	3.45	-70	60	73		
2	50	400 Δ / 690 Y	7.6 Δ / 4.4 Y	4.0	-230	200	69	85	2BH20540-1AAPL7-AA
	60	460 Δ	7.3 Δ	4.55	-170	140	73		
3	50	400 Δ / 690 Y	10.1 Δ / 5.9 Y	5.5	-380	330	69	96	2BH20540-1AAPM7-AA
	60	460 Δ	9.9 Δ	6.3	-310	260	73		
4	50	400 Δ / 690 Y	13.4 Δ / 7.7 Y	7.5	-380	500	71	104	2BH20540-1AAPN7-AA
	60	460 Δ	13.1 Δ	8.6	-410	440	75		
IE2 3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)									
1	50	500 Δ	4.7 Δ	3.0	-130	120	69	74	2BH20540-1AAPK5-AA
	60	575 Δ	4.5 Δ	3.45	-70	60	73		
2	50	500 Δ	6.0 Δ	4.0	-230	200	69	85	2BH20540-1AAPL5-AA
	60	575 Δ	5.9 Δ	4.55	-170	140	73		
3	50	500 Δ	8.1 Δ	5.5	-380	330	69	96	2BH20540-1AAPM5-AA
	60	575 Δ	7.9 Δ	6.3	-310	260	73		
4	50	500 Δ	10.7 Δ	7.5	-380	500	71	104	2BH20540-1AAPN5-AA
	60	575 Δ	10.5 Δ	8.6	-410	440	75		

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	c us			
50 Hz	60 Hz	50 Hz	60 Hz	87 Hz	60 Hz	2BH20540-1AA □ . □ -AA		
					Δ	Y		
3~		IE2 3~						
180 - 240 V Δ / 310 - 415 V Y 450 - 550 V Y	200 - 275 V Δ / 345 - 480 V Y 520 - 600 V Y	200 V Δ / 345 V Y 500 V Y	230 V Δ / 400 V Y 575 V Y		•	•	P	1
450 - 550 V Δ	520 - 600 V Δ	500 V Δ	575 V Δ		•	•	P	3
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	5
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	6
							P	7

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.

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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