

G-BH1 N

Data sheet 2BH1 940

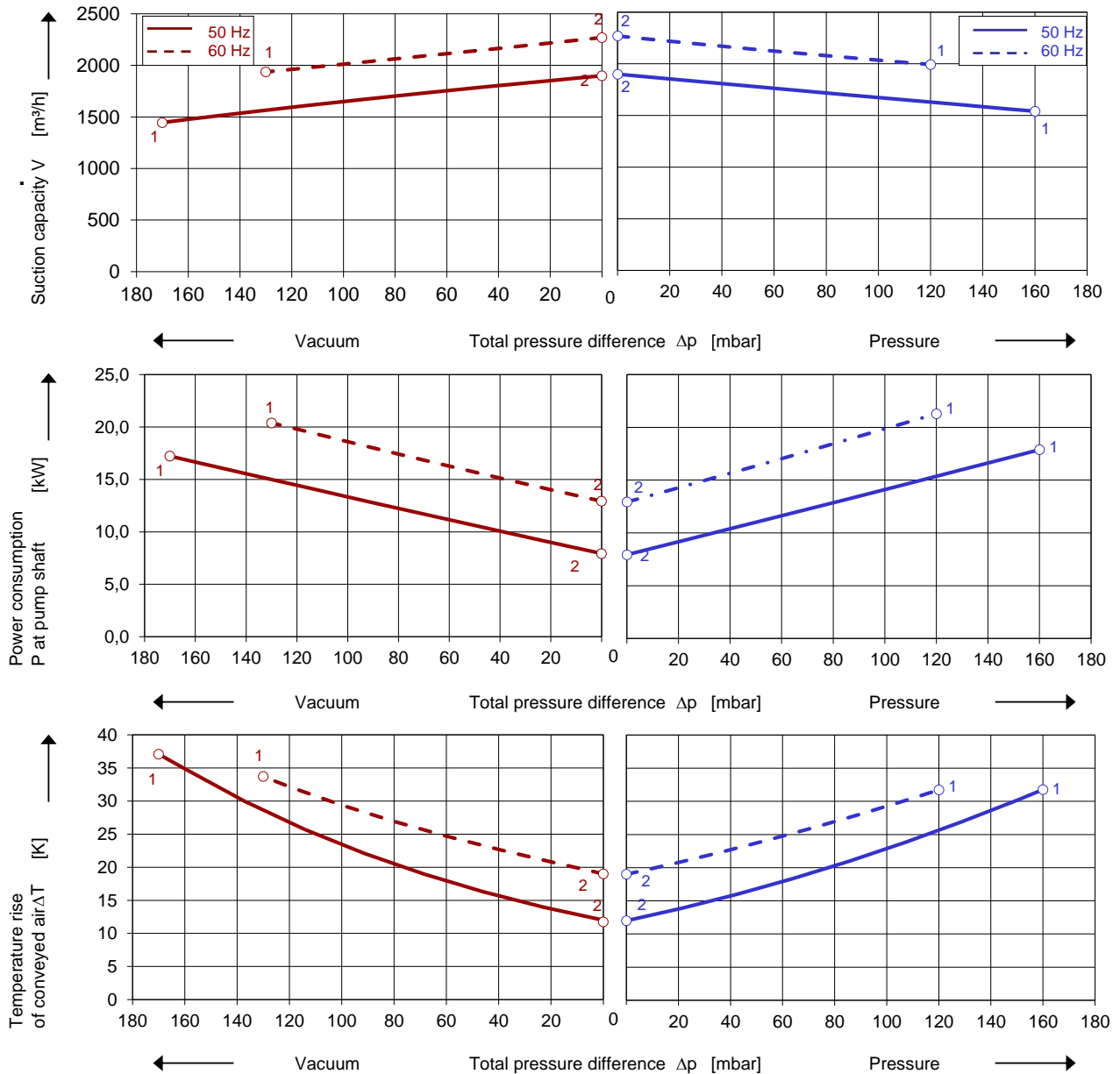
Side channel blower in ATEX configuration



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. Blowers with 2014/34/EU (ATEX Directive) are available for categories 3GD and 3/2D as fixed voltage machines for 50 and 60 Hz. For category 3/2G 50 Hz or 60 Hz versions only are available.

Selection and ordering data

Type 2BH1 940											
No.	Frequency	Rated			Max. differential pressure		Sound pressure level	Weight Approx.	Degree of protection	ATEX category	Order No.
		Voltage	Current	Power	Vacuum	Pressure					
		Hz	V	A	kW	mbar					
IE3 3~ 50/60 Hz, Insulation material class F, Temperature class T3										3GD, 3/2D	
1	50	400 Δ / 690 Y	32,0 Δ / 18,6 Y	18,5	-170	160	73	317	IP65	3/2D ²⁾	2BH1940-1BD36-Z Z=M34
	60	460 Δ	32,0 Δ	21,3	-130	120	73				
	50	400 Δ / 690 Y	32,0 Δ / 18,6 Y	18,5	-170	160	73		IP55	3GD ²⁾	2BH1940-1BD36-Z Z=M74
	60	460 Δ	32,0 Δ	21,3	-170	120	73				
IE3 3~ 50 Hz oder 3~ 60 Hz, Insulation material class F, Temperature class T3										3/2G	
2	50								IP55	3/2G ²⁾	2BH1940-1BD31-Z Z=M71 2BH1940-1BG31-Z Z=M71
	60										

- 1) 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).
- 2) The abbreviations „D“ and „G“ used include the subcategories (i) for „inside“ and (o) for „outside“. Examples:
3GD includes 3D(i) and 3D(o),
3/2D includes 3D(i) and 2D(o),
3/2G includes 3G(i) and 2G(o)

Alle G-BH erfüllen die Richtlinien 2006/42/EG (Maschinen) und 2014/34/EU (ATEX-Richtlinie) sowie die Normen EN 60079-0 EN (Explosionsgefährdete Bereiche: Betriebsmittel- Allgemeine Anforderungen), EN 60079-7 EN (Explosionsgefährdete Bereiche: Geräteschutz durch erhöhte Sicherheit "e") und ISO 80079-36 (Explosionsfähige Atmosphären: Nicht-elektrische Geräte für den Einsatz in explosionsfähigen Atmosphären- Grundlagen und Anforderungen). Die Motoren sind nach Wärmeklasse F in Effizienzklasse IE3 ausgeführt. Die Spannungstoleranz ist nach den oben genannten Normen ausgeführt. Die Frequenztoleranz beträgt max. +/- 2 %.

Other Voltages [V]

ATEX-category	50 Hz	60 Hz	2BH1...-1.	□	□	-Z	Z=
3-							
3/2D, 3GD	230 Δ / 400 Y	460 Y		D	1		M34, M74
	400 Δ / 690 Y	460 Δ		D	6		
	500 Δ	575 Δ		D	5		
3/2G	230 Δ / 400 Y	-		D	1		M71
	400 Δ / 690 Y	-		D	6		
	500 Δ	-		D	5		
	-	460 Y		G	1		
	-	460 Δ		G	6		
	-	575 Δ		G	5		

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given does not constitute an obligation from o



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