



**Elmo
Rietschle**

G-BH1 N

Data sheet 2BH1 300

Side channel blower in ATEX configuration



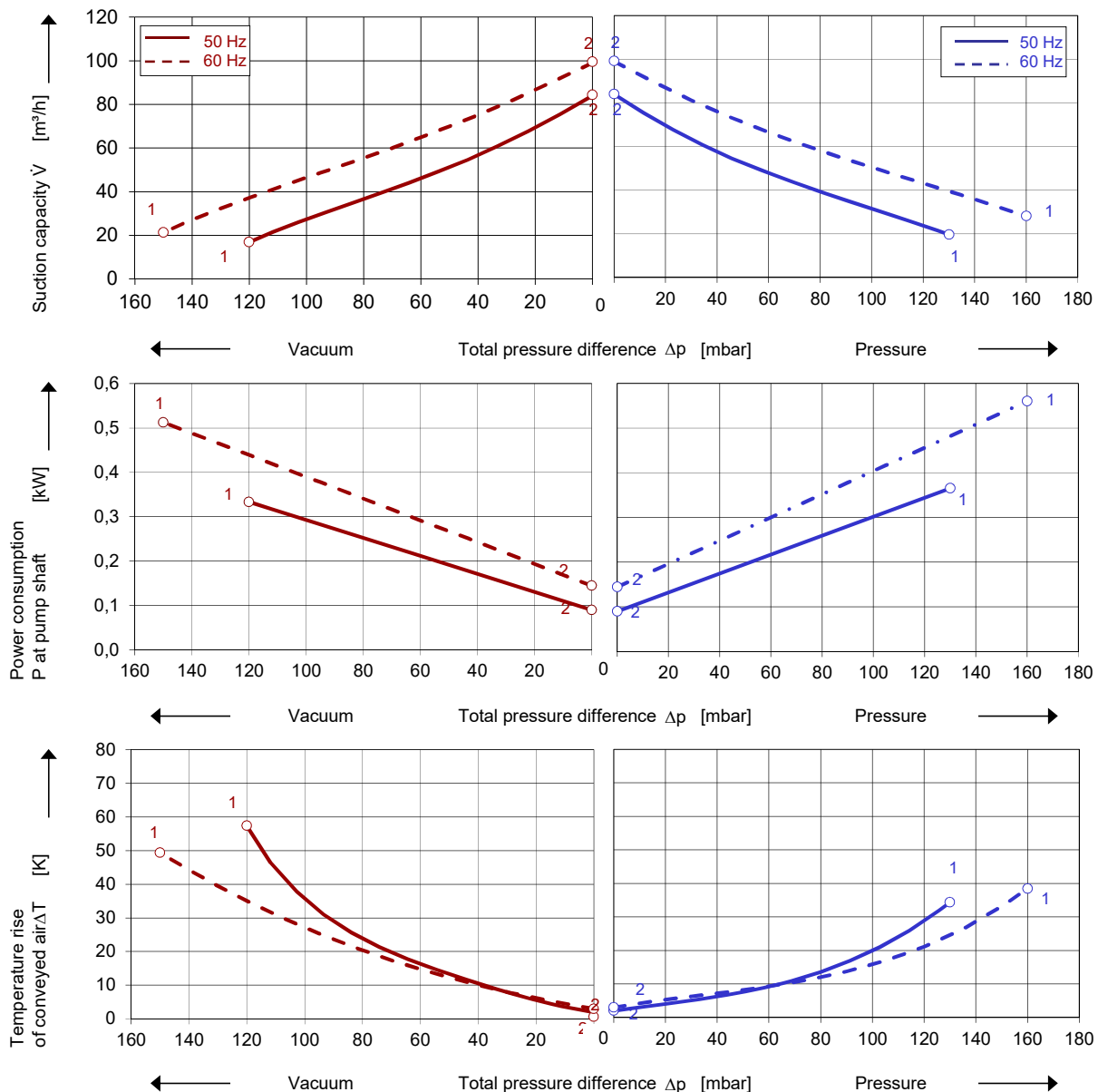
IE2



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. 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 300											
No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Weight Approx.	Degree of pro- tection	ATEX category	Order No.
		Voltage	Current	Power	Vacuum	Pressure					
	Hz	V	A	kW		mbar	dB(A)	kg			
IE2 3~ 50/60 Hz, Insulation material class F, Temperature class T3										3GD, 3/2D	
1	50	230 Δ / 400 Y	2,35 Δ / 1,34 Y	0,55	-120	130	53	12	IP55	3/2D 2)	2BH1300-1AD21-Z Z=M34
	60	460 Y	1,34 Y	0,63	-150	160	56				
	50	230 Δ / 400 Y	2,35 Δ / 1,34 Y	0,55	-120	130	53		IP55	3GD 2)	2BH1300-1AD21-Z Z=M74
	60	460 Y	1,34 Y	0,63	-150	160	56				

- 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:
M74/75: 3GD includes 3(i) and 3(o)  II 3G IIB T3 Gc and II 3D IIIB T125°C Dc
M34: 3/2D includes 3D(i) and 2D(o)  II 3/2D IIIC T125°C Dc/Db
M71: 3/2G includes 3G(i) and 2G(o)  II 3/2G IIB T3 Gc/Gb

All G-BH fulfil the directives 2006/42 / EC (machines) and 2014/34 / EU (ATEX directive) as well as the standards EN 60079-0 / EN (potentially explosive areas: equipment - general requirements / device protection through increased safety "e ") and ISO 80079-36 (Explosive atmospheres: non-electrical devices for use in explosive atmospheres - basics and requirements).
The motors are comply with thermal class F in efficiency class IE2. The voltage tolerance is designed according to the standards mentioned above.
The frequency tolerance is ± 2 % maximum.

Other Voltages [V]						
ATEX- category	50 Hz	60 Hz	2BH1...-1.			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 fi



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