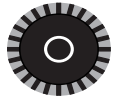


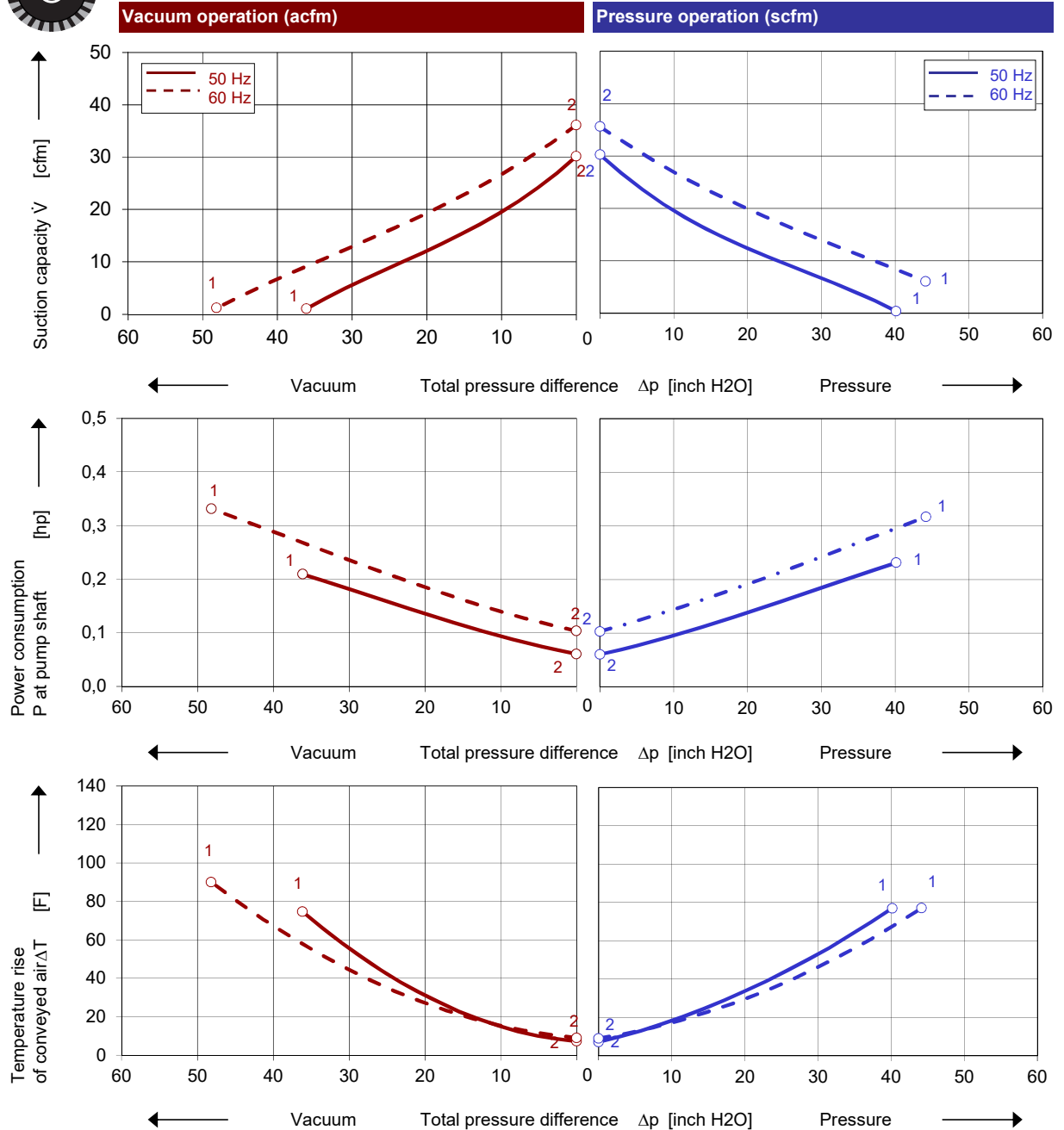
G-BH1 N

Data sheet 2BH1 100

Side channel blower in ATEX configuration



Performance curves



The performance curves are based on air at a temperature of 59 F and an atmospheric pressure of 29.92 inch Hg with a tolerance of $\pm 10\%$. The total Suction capacity relates to inlet conditions. Pressure capacity relates to atmospheric conditions. For other conditions please contact Elmo Rietschle.

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 100											
No.	Frequency Hz	Rated			Max. differential pressure		Sound pressure level	Weight	Degree of protection	ATEX category	Order No.
		Voltage	Current	Power	Vacuum	Pressure					
		V	A	hp	inch H2O		dB(A)	lbs			
IE2 3~ 50/60 Hz, Insulation material class F, Temperature class T3											3GD, 3/2D
1	50	230 Δ / 400 Y	1,20 Δ / 0,69 Y	0,3	-36,1	40,1			IP65	3/2D 2)	2BH1100-1AD01-Z Z=M34
	60	0 460 Y	0,66 Y	0,4	-48,2	44,2					
	50	230 Δ / 400 Y	1,20 Δ / 0,69 Y	0,3	-36,1	40,1			IP55	3GD 2)	2BH1100-1AD01-Z Z=M74
	60	0 460 Y	0,66 Y	0,4	-48,2	44,2					
IE2 3~ 50 Hz oder 3~ 60 Hz, Insulation material class F, Temperature class T3											3/2G
2	50					50	14	IP55	3/2G 2)	2BH1100-1AD01-Z Z=M71	
	60					50				2BH1100-1AG01-Z Z=M71	

- 1) Surface sound pressure levels are according 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 IIB T125°C Dc
M34: 3/2D includes 3D(i) and 2D(o) II 3/2D IIC 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 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	
	—	0 460 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 our side to deliver as shown.



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