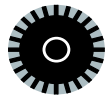


G-BH2 e Data sheet 2BH2 0360-2

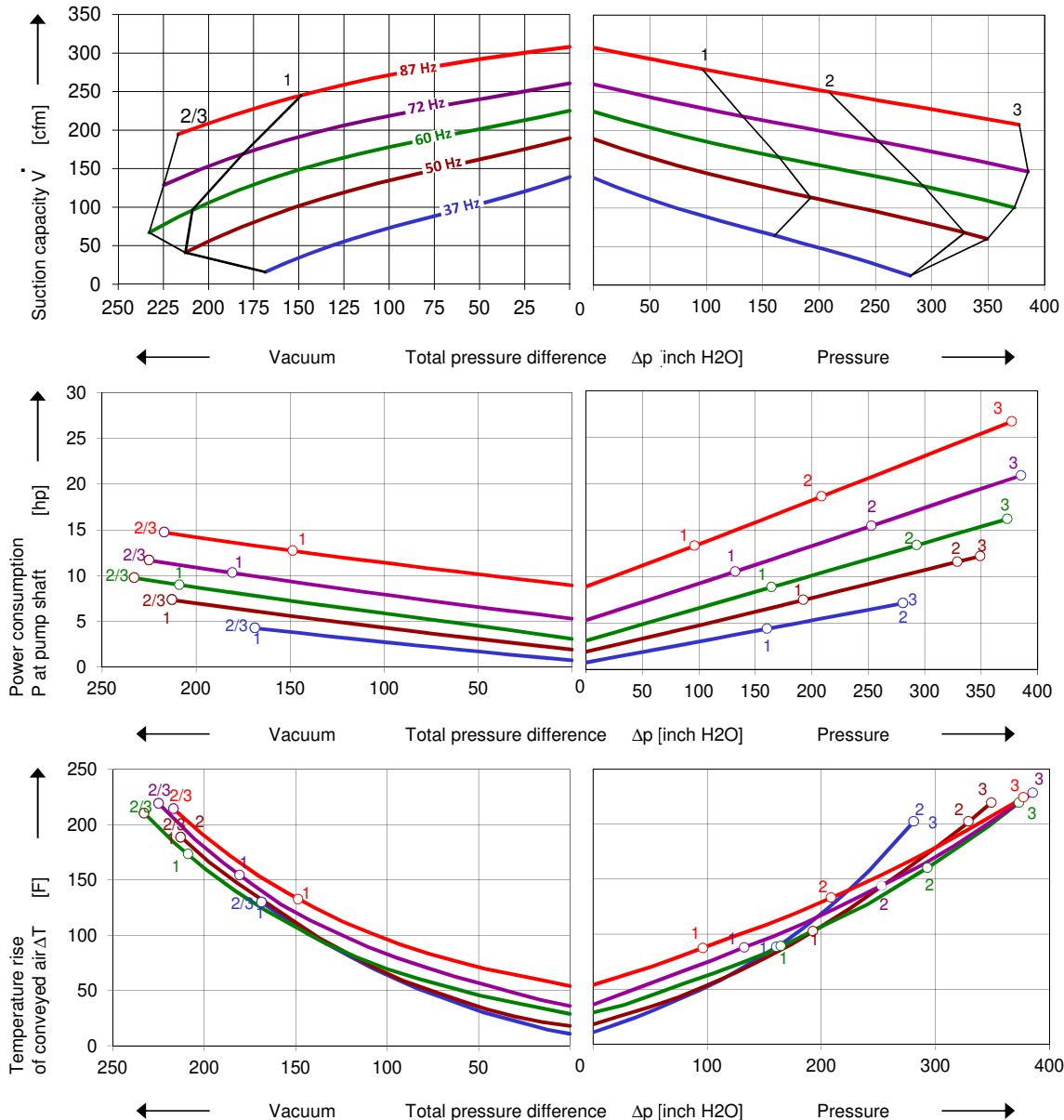
Side channel blower with Frequency Converter



Performance curves

Vacuum operation (acfm)

Pressure operation (scfm)



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.

The performance curves are based on frequency converter operation and a pulse frequency of 4 kHz minimum. Rated voltage/frequency set point is 345 V / 87 Hz and delta connection of motor. Frequency converters must be connected to a mains voltage of 380 V minimum.

Selection and ordering data

Type 2BH2 0360-2

No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Weight Approx.	Order No.		VFD type	
		Voltage	Current	Power	Vacuum	Pressure						
		Hz	V	A	hp	inch H2O ¹⁾						dB(A) ²⁾
Integrated VFD 3~ 400V -15% ... 480V +10%, 50/60 Hz ±6% with thermistor (PTC), IP55, UL 1450												
1	84	380 Y	20.3 Y	13.3	-181	104	84	76/78	254	258	2BH20360-2AA3M1-BA	F
2	85	380 Y	27.4 Y	18.8	-217	209	84	76/78	289	293	2BH20360-2AA3N1-BA	G
3	85	380 Y	41.0 Y	27.5	-217	377	85	76/78	340	344	2BH20360-2AA3P1-BA	K
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)												
	37	-	-	-	-169	169	68	75/76	203	207	2BH20360-2AAKL6-BA ³⁾	F
	50	-	-	-	-169	149	65					
	60	-	-	-	-145	116	69					
	87	400 Δ	14.4 Δ	10.1	-48	24	79					
	37	-	-	-	-169	241	69	76/78	218	223	2BH20360-2AAKM6-BA ³⁾	G
	50	-	-	-	-213	221	65					
	60	-	-	-	-233	189	69					
	85	400 Δ	20.4 Δ	13.7	-181	104	84					
2	37	-	-	-	-169	281	69	76/78	245	249	2BH20360-2AAKN6-BA ³⁾	G
	50	-	-	-	-213	329	65					
	60	-	-	-	-233	293	69					
	85	400 Δ	26.0 Δ	18.8	-217	209	84					
3	37	-	-	-	-169	281	73	77/79	287	291	2BH20360-2AAKP6-BA ³⁾	J
	50	-	-	-	-213	349	65					
	60	-	-	-	-233	373	69					
	85	400 Δ	39.5 Δ	27.5	-217	377	85					

With separately driven fan (order option G17)

- 1) We recommend differential pressure indicators / switches for limiting differential pressure. Relief valves are only useable at defined frequency.
- 2) 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
- 3) PTC sensors recommended for motor overload protection. Ordering example: 2BH20360-2 □□□□□-□□-□ Z=A11
- 4) Sound pressure level with G17 dependent on voltage (50Hz / 60Hz)

All G-BH blowers conform to the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

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The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F.

Frequency converter (IP55) motor integrated / for wall mounting

Frequency Converter		Rated mains voltage	Max. motor current	Typical motor power	Rated mains current	Fuse Protection	Weight Approx.	Adaptor for wall mounting
Order No.		V	A	kW	A	A	kg	Order No.
A	2FC4152-1 □□□□00	400V (-15%) ... 480V (+10%)	4	2	3	10	4	2FX16190ER00
B	2FC4222-1 □□□□00		6	2	5	10	5	2FX16490ER00
C	2FC4302-1 □□□□00		8	3	6	16		
D	2FC4402-1 □□□□00		10	4	8	16		
E	2FC4552-1 □□□□00		13	6	11	20	9	2FX16690ER00
F	2FC4752-1 □□□□00		18	8	15	25		
G	2FC4113-1 □□□□00		28	11	23	35	21	2FX16990ER00
H	2FC4153-1 □□□□00		34	15	28	50		
J	2FC4183-1 □□□□00		40	19	33	50		
K	2FC4223-1 □□□□00		48	22	40	63		

I/O's and automation

I/O's and automation	Order option	Example:
ST 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS	STANDARD	2BH20360-2AA3M1-BA Z=U51 VFD type 2FC4752-1PB00 to be delivered already installed
PB 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / ProfiBus interface	Z = U51	
CB 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / CANopen interface	Z = U52	
PN 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / ProfiNet interface	Z = U53	
SC 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / SERCOS3 interface	Z = U54	
EC 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS, with EtherCAT-Interface	Z = U56	

VFD accessories

Item	Order No.	Item	Order No.
Manual control		Differential pressure transmitters	
MMI handheld	2FX4520-0ER00	Vacuum -1000 ... 0 mbar	2FX6022-0BD00
USB adaptor cable	2FX4521-0ER00	Pressure ... 600 mbar	2FX6013-0BD00
		... 1000 mbar	2FX6014-0BD00
INVERTerpc Software			
Free download at www.gd-elmoietschle.com >Downloads >frequency-converters >Miscellaneous >Software			

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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