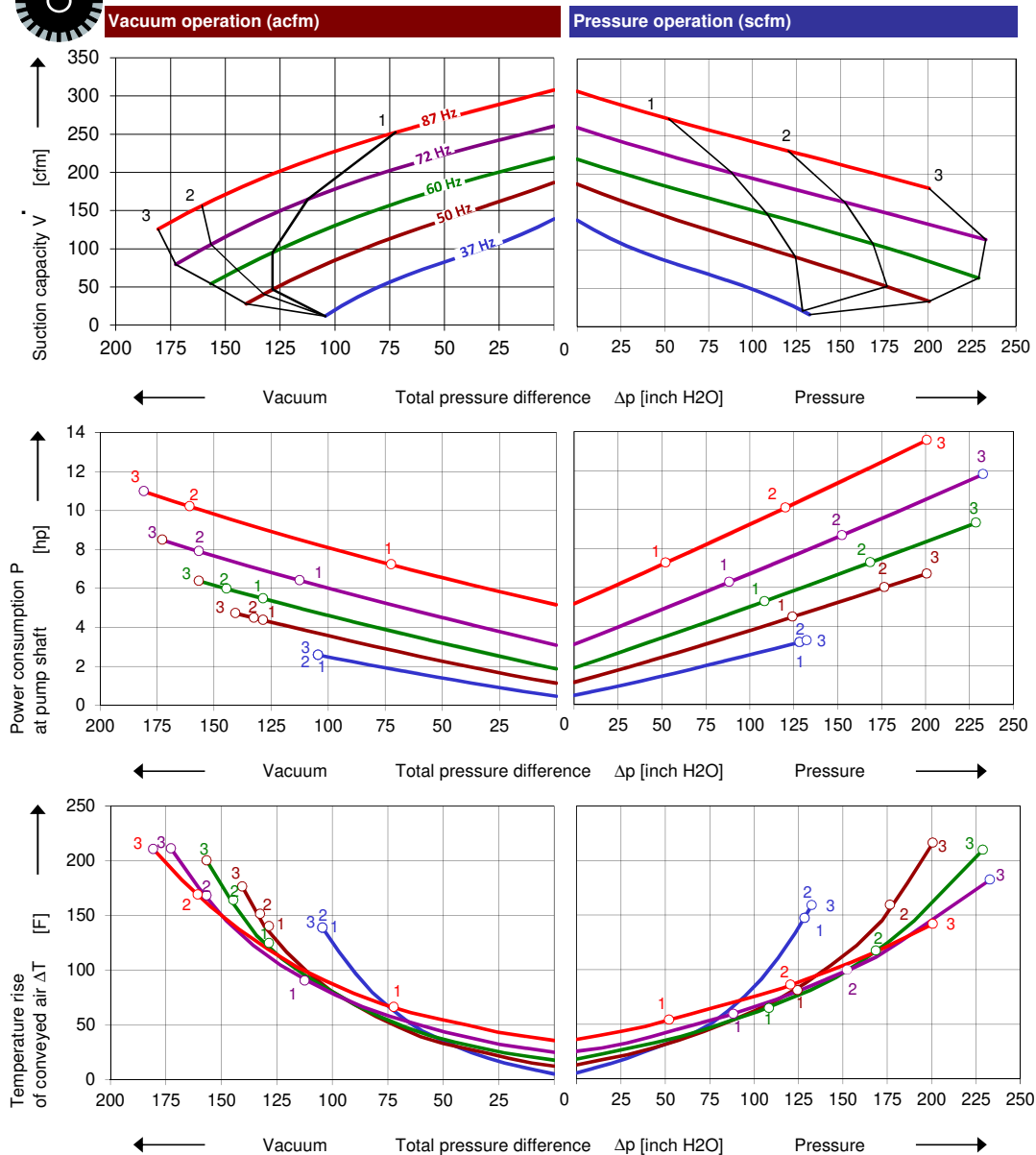


G-BH2 e Data sheet 2BH2 0360-1

Side channel blower with Frequency Converter



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.

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 0360-1													
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⁾	lbs					
Integrated VFD 3~ 400V -15% ... 480V +10%, 50/60 Hz ±6% with thermistor (PTC), IP55, UL 1450													
1	87	380 Y	11.5 Y	7.8	-72	52	78	75/76	134	139	2BH20360-1AA3K1-BA	E	
2	85	380 Y	14.9 Y	10.1	-161	120	78	75/76	168	172	2BH20360-1AA3L1-BA	F	
3	85	380 Y	20.3 Y	13.7	-181	201	84	75/76	190	194	2BH20360-1AA3M1-BA	G	
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)													
	37	-	-	-	-100	96	54	75/76	123	128	2BH20360-1AAKJ6-BA ³⁾	D	
	50	-	-	-	-92	84	64						
	60	-	-	-	-80	68	67						
	72	330 Δ	8.8 Δ	4.7	-60	48	64						
1	37	-	-	-	-104	128	66	75/76	134	139	2BH20360-1AAKK6-BA ³⁾	E	
	50	-	-	-	-128	124	64						
	60	-	-	-	-128	108	67						
	87	400 Δ	11.0 Δ	7.8	-72	52	81						
2	37	-	-	-	-104	128	66	75/76	150	154	2BH20360-1AAKL6-BA ³⁾	F	
	50	-	-	-	-132	177	64						
	60	-	-	-	-145	169	67						
	87	400 Δ	14.4 Δ	10.1	-161	120	78						
3	37	-	-	-	-104	132	68	75/77	166	171	2BH20360-1AAKM6-BA ³⁾	G	
	50	-	-	-	-141	201	64						
	60	-	-	-	-157	229	67						
	85	400 Δ	20.4 Δ	13.7	-181	201	84						
With seperately 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 sensores recommended for motor overload protection. Ordering example: 2BH20360-1 □□□□□-□□-□ 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".

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".

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							Order option	Example:	
ST 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS							STANDARD	2BH20360-1AA3K1-BA Z=U51 VFD type 2FC4552-1PB00 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 RELAIS, 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-elmorietschle.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.