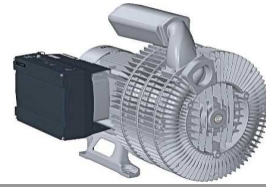
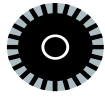
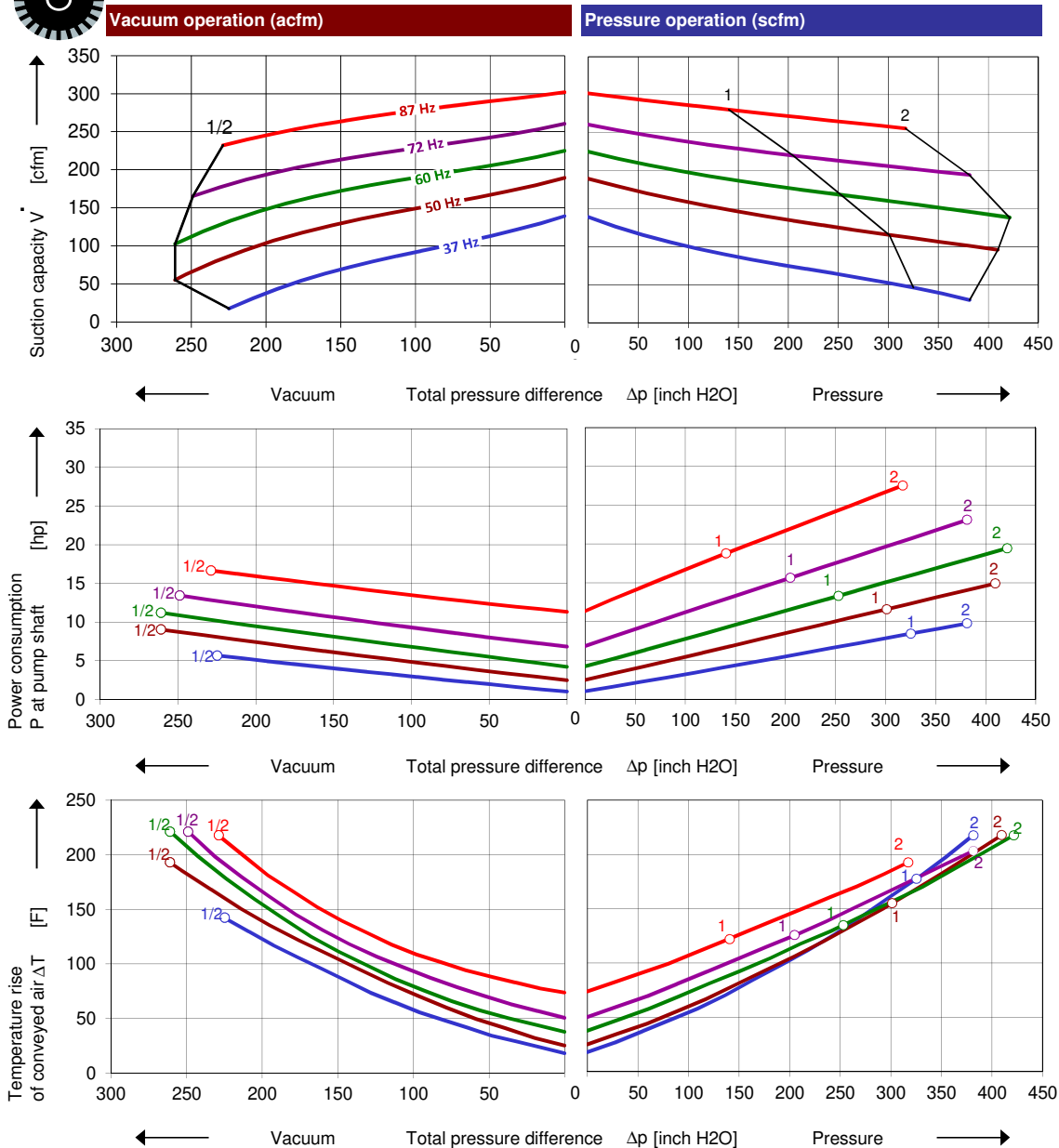


G-BH2 e Data sheet 2BH2 0360-3

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 0360-3

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	85	380 Y	27.4 Y	18.8	-229	141	85	76/78	285	290	2BH20360-3AA3N1-BA	G
2	85	380 Y	41.0 Y	27.5	-229	317	85	77/79	381	386	2BH20360-3AA3P1-BA	K
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)												
1	37	-	-	-	-225	225	68	76/78	261	266	2BH20360-3AAKM6-BA ³⁾	
	50	-	-	-	-237	193	69					
	60	-	-	-	-213	153	74					
	85	400 Δ	20.4 Δ	13.7	-100	40	84					G
	37	-	-	-	-225	325	68	76/78	287	291	2BH20360-3AAKN6-BA ³⁾	
	50	-	-	-	-261	301	69					
	60	-	-	-	-261	253	74					
	85	400 Δ	26.0 Δ	18.8	-229	141	84					G
2	37	-	-	-	-225	381	68	77/79	347	352	2BH20360-3AAKP6-BA ³⁾	
	50	-	-	-	-261	409	69					
	60	-	-	-	-261	422	74					
	85	400 Δ	39.5 Δ	27.5	-229	317	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: 2BH20360-3 □□□□□-□□-□ 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		
H	2FC4153-1 □ □ □ 00		34	15	28	50	21	2FX16990ER00
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	2BH20360-3AA3N1-BA Z=U51 VFD type 2FC4113-1PB00 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.



Your Ultimate Source for Vacuum and Pressure

Gardner Denver Deutschland GmbH

Industriestraße 26
97616 Bad Neustadt - Germany
Tel.: +49 9771 6888-0
Fax: +49 9771 6888-4000

www.gd-elmoietschle.com • er.de@gardnerdenver.com

Gardner Denver, Inc.

1800 Gardner Expressway
Quincy, IL 62305
Tel: 866-249-2275
Fax: 217-221-8780