

G-BH2 e Data sheet 2BH2 0780-2

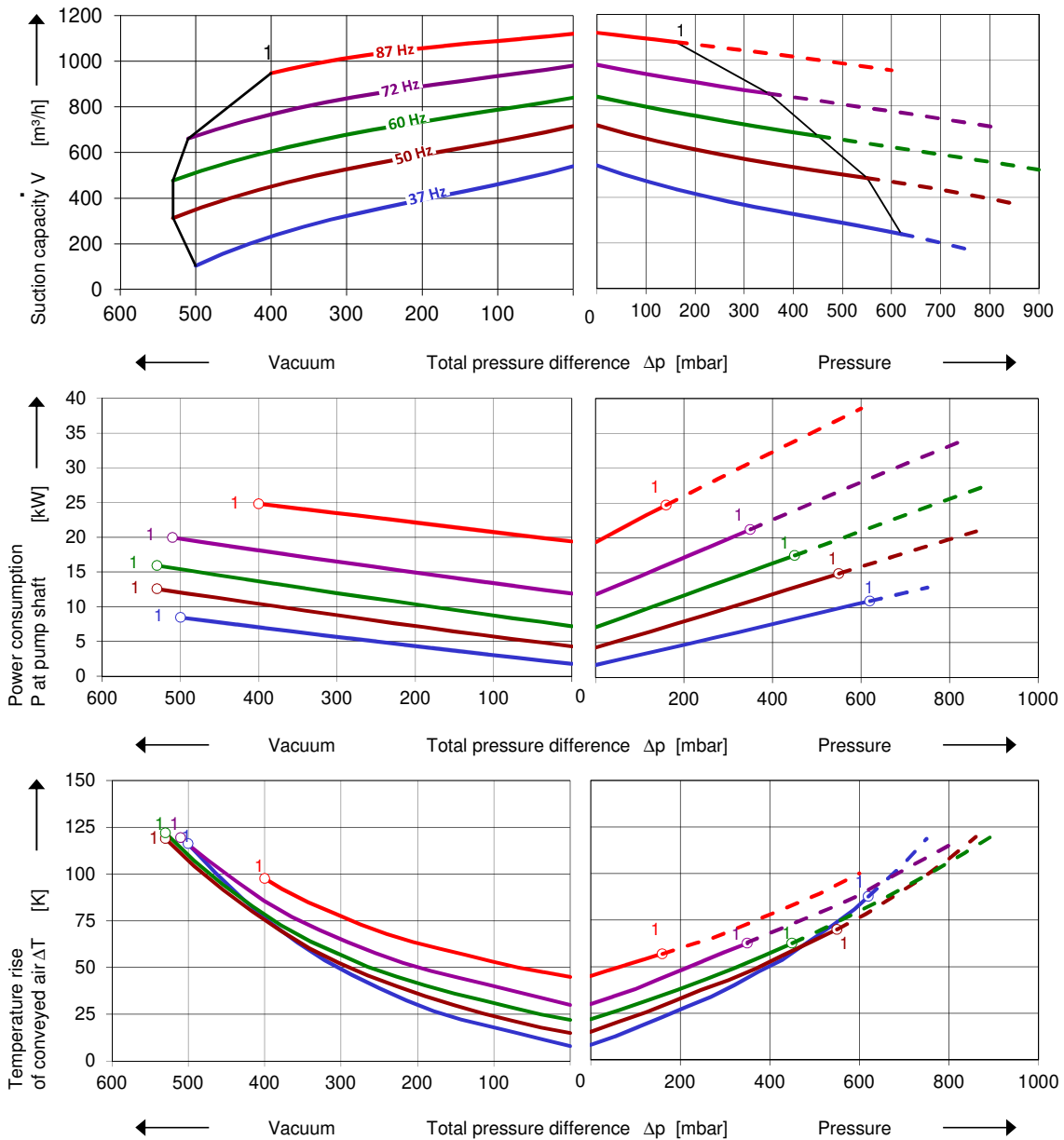
Side channel blower with Frequency Converter



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.

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 0780-2												
No.	Fre- quency Hz	Rated			Max. differential pressure		Sound pressure level dB(A) ²⁾	Weight Approx. kg	Order No.		VFD type	
		Voltage V	Current A	Power kW	Vacuum mbar ¹⁾	Pressure						
Integrated VFD 3~ 400V -15% ... 480V +10%, 50/60 Hz ±6% with thermistor (PTC), IP55, UL 1450												
1	85	380 Y	48.0 Y	25.0	-400	160	85	79/80	225	227	2BH20780-2AA3Q6-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	-	-	-	-500	500	72	79/80	191	193	2BH20780-2AAKP6-BA ³⁾	J
	50	-	-	-	-530	420	71					
	60	-	-	-	-450	320	76					
	72	330 Δ	39.3 Δ	17.4	-350	200	85					
	37	-	-	-	-500	750	72	79/80	201	203	2BH20780-2AAKQ6-BA ³⁾	
	50	-	-	-	-530	670	71					
	60	-	-	-	-530	560	76					
	85	400 Δ	53.7 Δ	28.2	-480	270	85					
	37	-	-	-	-500	750	72	79/80	213	215	2BH20780-2AAKR6-BA ³⁾	
	50	-	-	-	-530	860	71					
	60	-	-	-	-530	750	76					
	85	400 Δ	65.0 Δ	35.5	-480	490	85					
	37	-	-	-	-500	750	72	79/82	261	263	2BH20780-2AAKS6-BA ³⁾	
	50	-	-	-	-530	860	71					
	60	-	-	-	-530	900	76					
	85	400 Δ	75.0 Δ	42.0	-480	600	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) 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, w
- 3) PTC recommended for motor overload protection. Ordering example: 2BH20780-2 □□□□-□□-□ Z=A11
- 4) Sound pressure level with G17 dependent on voltage (50Hz / 60Hz)

All G-BH match 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.

The frequency tolerance is +/- 2 % maximum.

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	9	2FX16690ER00
E	2FC4552-1 □□ 00		13	6	11	20		
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	2BH20780-2AA3Q6-BA Z=U51	
PB 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / ProfiBus interface						Z = U51	VFD type 2FC4223-1PB00 to be delivered already installed	
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	0 ... 600 mbar	2FX6013-0BD00
		0 ... 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 s



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