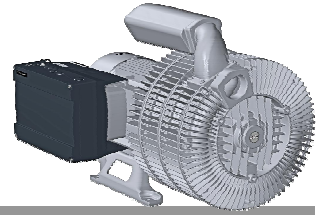
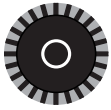


G-BH2 e Data sheet 2BH2 0540-3

IE2



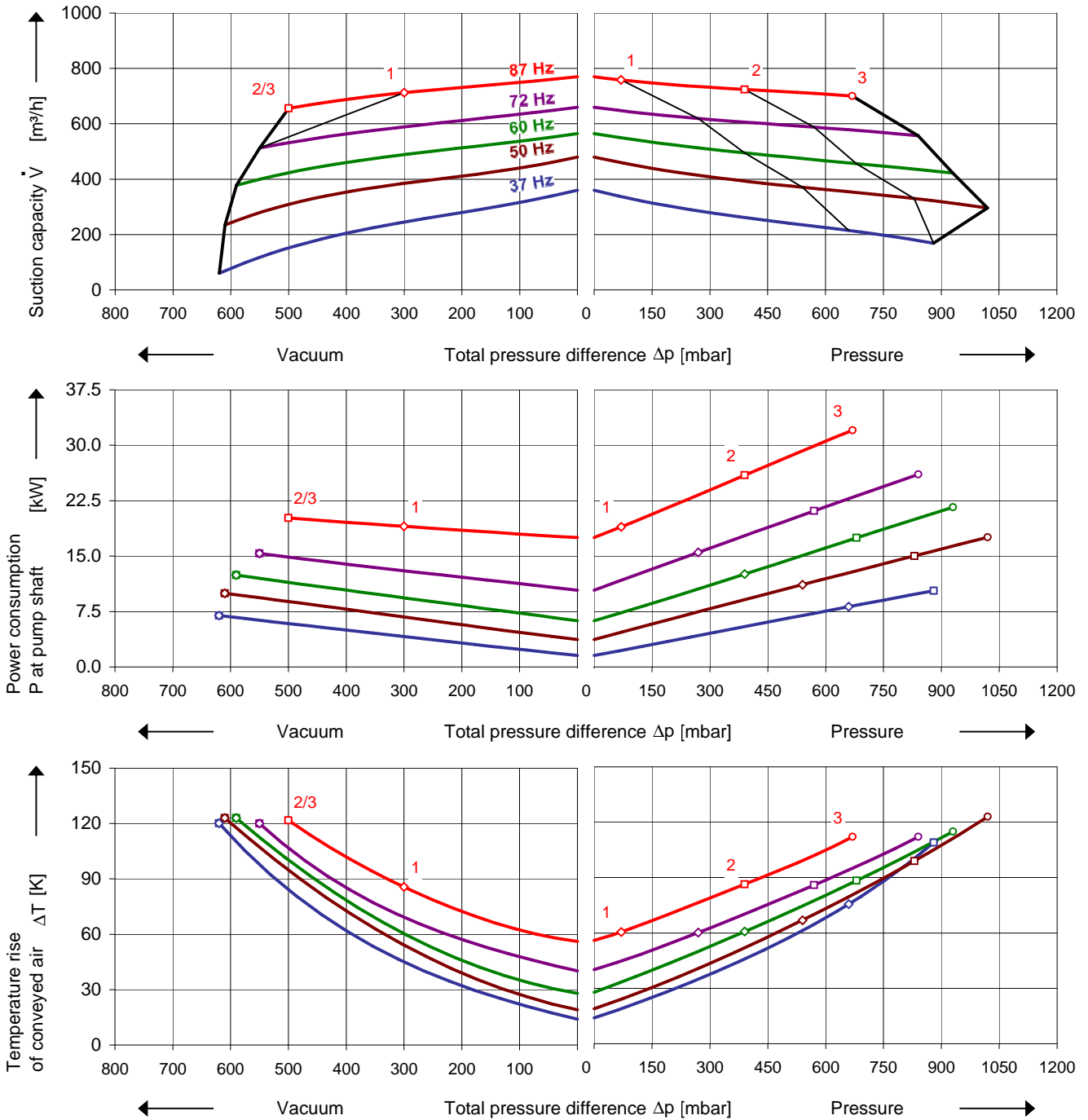
Side channel blower with Frequency Converter



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 $\pm 10\%$. 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 0540-3

No.	Fre- quency	Rated motor			Max. differential pressure ¹⁾		Sound pressure level ²⁾	Weight Approx.	Order No.	VFD type
		Voltage	Current	Power	Vacuum	Pressure				
		Hz	V	A	kW	mbar				
3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)										
1	50	345 Y	23.0 Y	11.0	-610	540	71	214	2BH20540-3AAP1-AA ³⁾	G
	60	400 Y	22.5 Y	12.6	-590	390	77			G
	87	345 Δ	39.5 Δ	19.0	-300	70	84			J
2	50	345 Y	31.0 Y	15.0	-610	830	71	188	2BH20540-3AAPQ1-AA ³⁾	H
	60	400 Y	30.5 Y	17.3	-590	680	77			H
	87	345 Δ	53.0 Δ	26.0	-500	390	84			J
3	50	345 Y	37.0 Y	18.5	-610	1020	71	199	2BH20540-3AAPR1-AA ³⁾	J
	60	400 Y	36.5 Y	21.3	-590	870	77			J
	87	345 Δ	64.0 Δ	32.0	-500	670	84			J

- 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, with piping connected, but no relief valves fitted, tolerance ± 3 dB (A).
- 3) PTC recommended for motor overload protection. Ordering example: 2BH20540-3 □□□□-□□-□ Z=A11

All G-BH match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 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	
G	2FC4113-1 □□ 00	400V (-15%) ... 480V (+10%)	28.0	11.0	23.3	35	21.0	2FX16990ER00
H	2FC4153-1 □□ 00		34.0	15.0	28.3	50		
J	2FC4183-1 □□ 00		40.0	18.5	33.3	50		
K	2FC4223-1 □□ 00		48.0	22.0	39.9	63		
I/O's and automation				Order option	Example:			
ST	2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS			STANDARD	2BH20540-2AA2P1-AA-Z Z=U51			
PB	2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / ProfiBus interface			Z = U51	#NV			
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				

VFD accessories

Item	Order No.	Item	Order No.
Manual control		Differential pressure transmitters	
MMI handheld	2FX4520-0ER00	Vacuum	-1000 ... 0 mbar
USB adaptor cable	2FX4521-0ER00	Pressure	0 ... 600 mbar
			0 ... 1000 mbar
INVERTERpc Software			
Free download at www.gd-elmorietschle.com >Downloads >Product Documents >Accessories			

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given do not constitute an obligation from our side to deliver as shown.

Elmo Rietschle is a brand of Gardner Denver

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