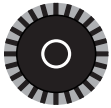
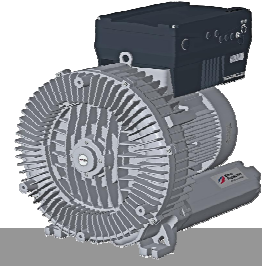


# G-BH1 e

## Data sheet 2BH1 930

Side channel blower with Frequency Converter

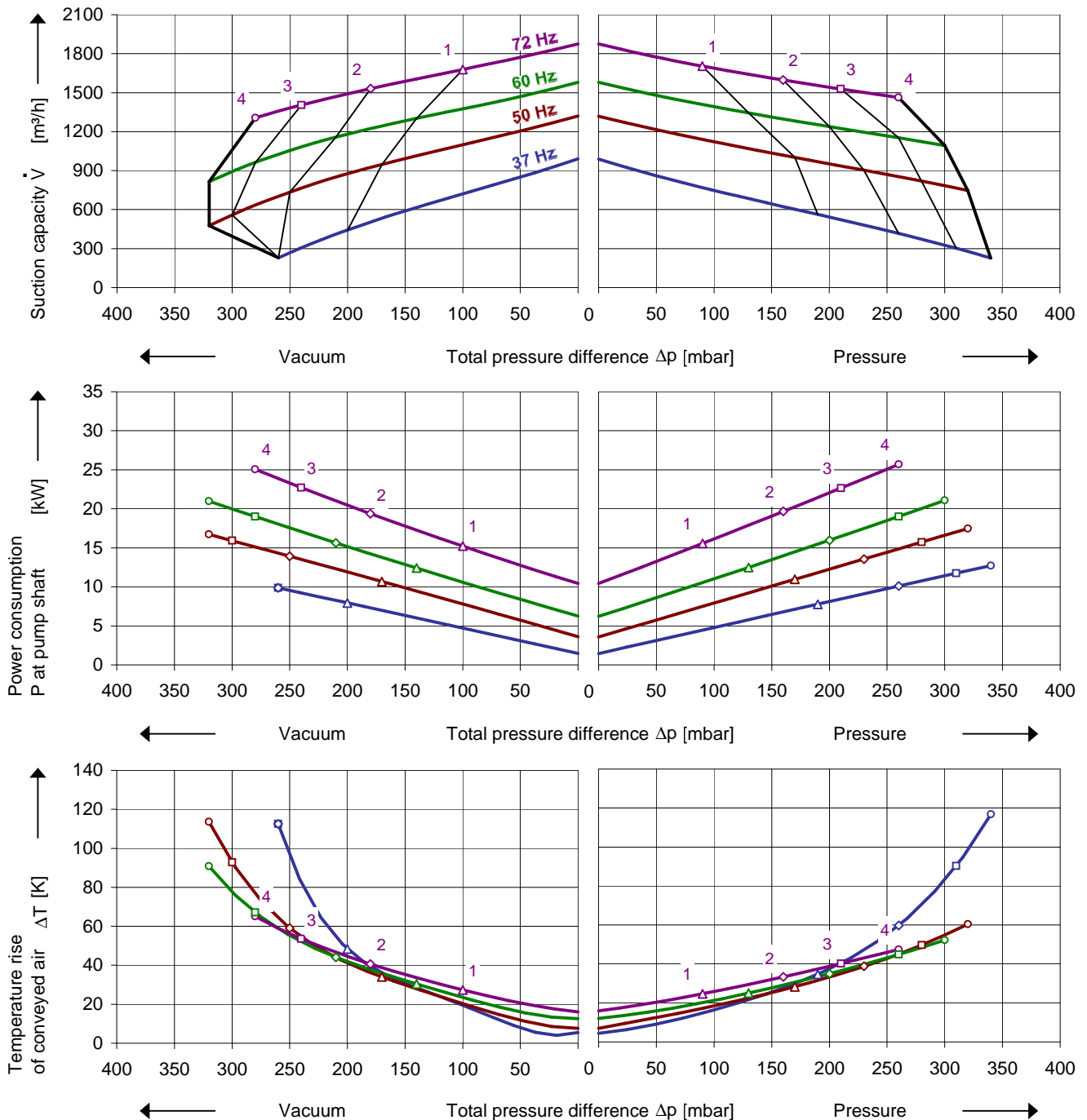
**IE2**



### 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 2BH1 930

No.	Fre- quency	Rated motor			Max. differential pressure <sup>1)</sup>		Sound pressure level <sup>2)</sup>	Weight Approx.	Order No.	VFD type
		Voltage	Current	Power	Vacuum	Pressure				
		Hz	V	A	kW	mbar				
<b>Integrated VFD 3- 400V -15% ... 480V +10%, 50/60 Hz ±6% with IE2 motor with thermistor (PTC), IP55</b>										
2	72	330 Δ	46.5 Δ	21.0	-180	160	82	244	2BH1930-7A226	K
3	72	330 Δ	48.0 Δ	22.6	-240	210	82	247	2BH1930-7A236	K
<b>3- 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)</b>										
1	50	400 Y	19.7 Y	11.0	-170	170	75	198	2BH1930-7AP16 <sup>3)</sup>	G
	60	460 Y	19.5 Y	12.6	-140	130	80			G
	72	330 Δ	34.5 Δ	15.4	-100	90	82			J
2	50	400 Y	26.5 Y	15.0	-250	230	75	207	2BH1930-7AP26 <sup>3)</sup>	G
	60	460 Y	26.5 Y	17.3	-210	200	80			G
	72	330 Δ	46.5 Δ	21.0	-180	160	82			K
4	50	400 Y	32.0 Y	18.5	-320	320	75	226	2BH1930-7AP36 <sup>3)</sup>	H
	60	460 Y	32.0 Y	21.3	-320	300	80			H
	72	330 Δ	56.0 Δ	25.9	-280	260	82			-

- 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: 2BH1930-□□□□-Z 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	Order No.
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	2BH1930-7A226-Z Z=U51 VFD type 2FC4223-1PB00 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	

## VFD accessories

Item	Order No.	Item	Order No.
<b>Manual control</b>		<b>Differential pressure transmitters</b>	
MMI handheld	2FX4520-0ER00	Vacuum -1000 ... 0 mbar	2FX6022-0BD00
USB adaptor cable	2FX4521-0ER00	Pressure 0 ... 600 mbar	2FX6013-0BD00
		0 ... 1000 mbar	2FX6014-0BD00
<b>INVERTERpc Software</b>			
Free download at <a href="http://www.gd-elmorietschle.com">www.gd-elmorietschle.com</a> >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.

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