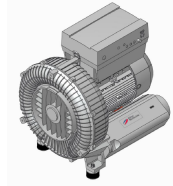


G-BH9 e

Data sheet 2BH92300

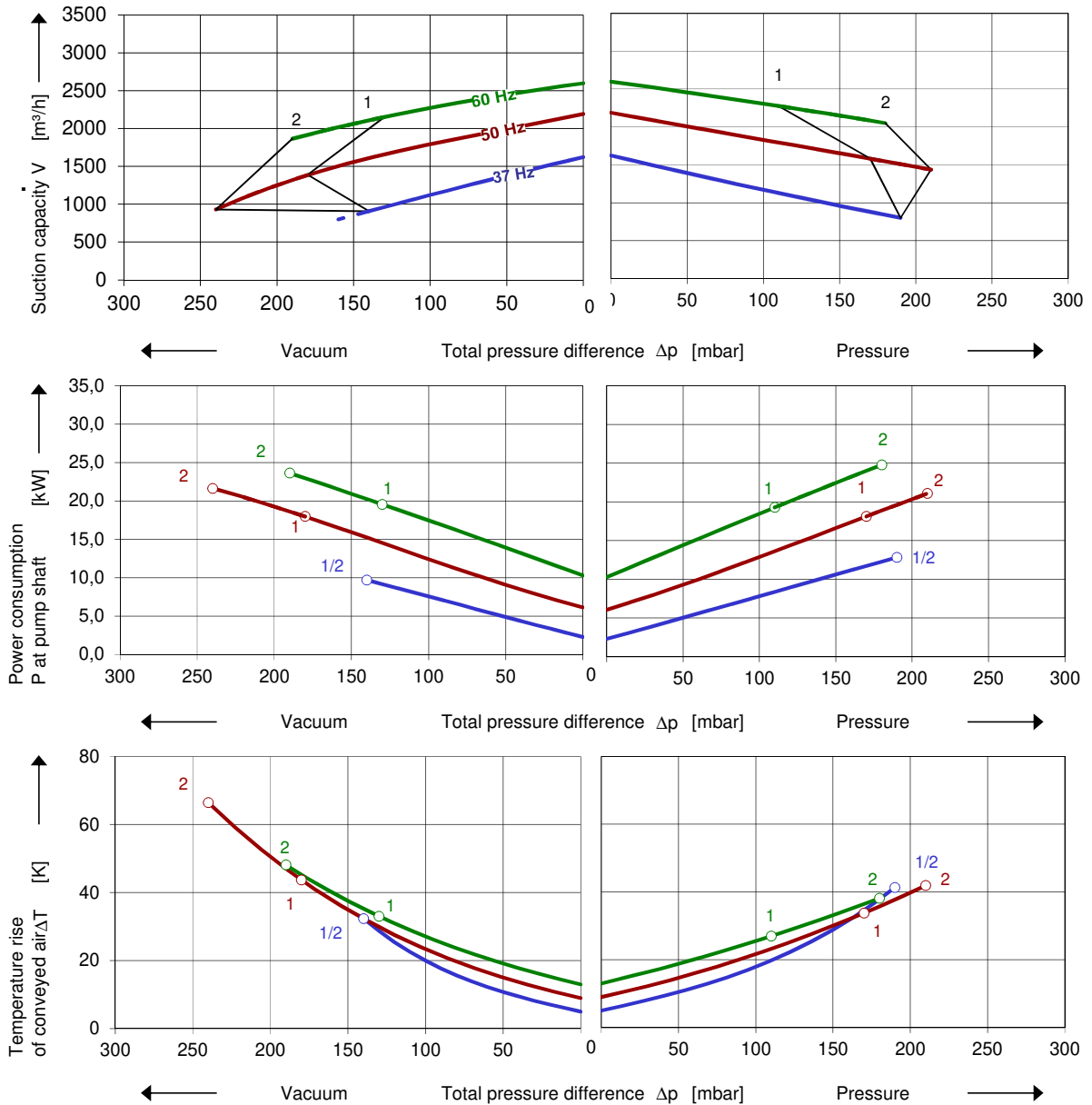
Side channel blower with Frequency Converter



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 2BH92300														
No.	Fre- quency Hz	Rated			Max. differential pressure		Sound pressure level dB(A) ²⁾	Weight Approx. kg	Order No.			VFD type		
		Voltage	Current	Power	Vacuum	Pressure								
		V	A	kW	mbar ¹⁾	mbar ¹⁾								
Integrated VFD 3~ 400V -15% ... 480V +10%, 50/60 Hz ±6% with thermistor (PTC), IP55, UL 1450														
1	60	370	Y	35,5	Y	18,5	-130	110		166		2BH92300-1AA3Q2-BA	J	
2	60	370	Y	42,0	Y	24,5	-190	180		178		2BH92300-1AA3R2-BA	K	
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)														
	50	-	-	-	-	-	-190	170	81	81	146	148	2BH92300-1AAKQ6-BA ³⁾	
	60	265	Δ	55,5	Δ	19,9	-150	130	81	81				
	37	-	-	-	-	-	-160	180	81	81				
	50	-	-	-	-	-	-220	210	81	81	158	160	2BH92300-1AAKR6-BA ³⁾	
	60	265	Δ	65,8	Δ	24,5	-180	170	81	81				

with separately driven fan (order option G17) ⁴⁾



2BH9 2300-1AAPxx-AA
Discharge right (standard)



2BH9 2300-5AAPxx-AA
Discharge left (optional)

- 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 pi
- 3) PTC recommended for motor overload protection. Ordering example: 2BH9300 □□□□-□□-Z-Z-A11
- 4) Sound pressure level with G17 dependent on voltage (50Hz / 60Hz)

All G-BH match the 2006/42/EC (machinery) and 2014/35/EU (low voltage) directives and the EN 60034 norm "Rotating electrical machines". The motors comply with EN 60 034 (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		
C	2FC4302-1 □□00		8	3	6	16		
D	2FC4402-1 □□00		10	4	8	16	5	2FX16490ER00
E	2FC4552-1 □□00		13	6	11	20		
F	2FC4752-1 □□00		18	8	15	25		
G	2FC4113-1 □□00		28	11	23	35		
H	2FC4153-1 □□00		34	15	28	50		
J	2FC4183-1 □□00		40	19	33	50	21	2FX16990ER00
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	2BH92300-1AA3Q2-BA Z=U51 VFD type 2FC4183-1PB00 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		
SO 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / SERCOS3 interface						Z = U54		
EO 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 0 ... 600 mbar 0 ... 1000 mbar
USB adaptor cable	2FX4521-0ER00	Pressure	
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



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