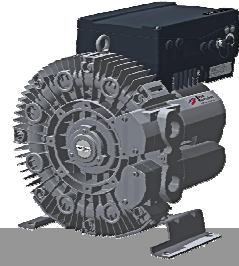
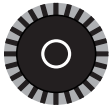


G-BH7 e

Data sheet 2BH7 410

IE2


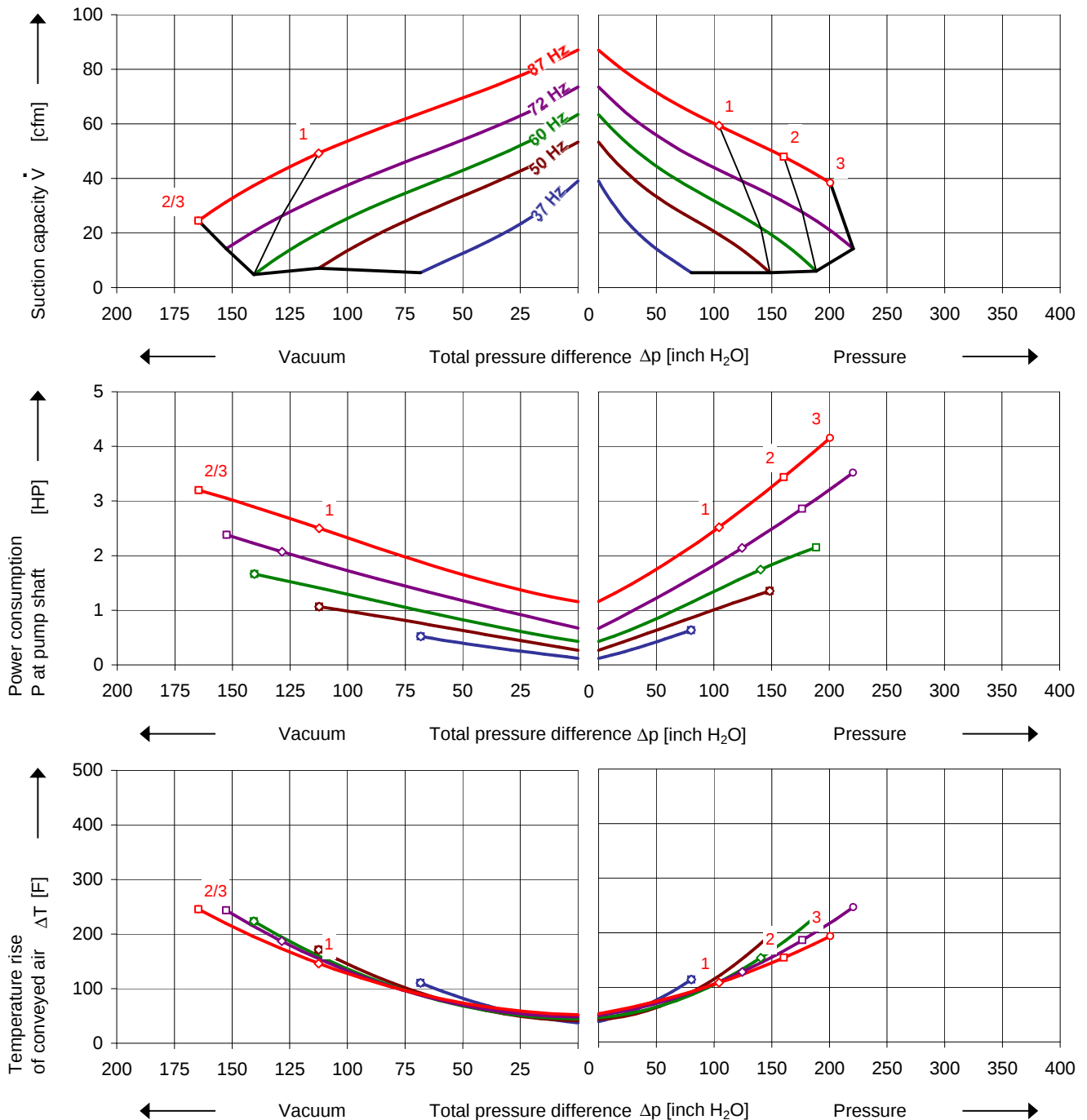
Side channel blower with Frequency Converter



Performance curves

Vacuum operation (acfm)

Pressure operation (scfm)



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 2BH7 410										
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			dB(A)	lbs		
Integrated VFD 3~ 400V -15% ... 480V +10%, 50/60 Hz ±6% with IE2 motor with thermistor (PTC), IP55										
2	87	345 Δ	6.1 Δ	2.6	-410	400			2BH7410-0A221-7	C
3	87	345 Δ	8.8 Δ	3.8	-410	500		77	2BH7410-0A231-7	D
3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)										
1	50	345 Y	2.6 Y	1.1	-280	370	58	49	2BH7410-0AP11-7 ³⁾	A
	60	400 Y	2.5 Y	1.3	-350	350	62			A
	87	345 Δ	4.5 Δ	1.9	-280	260	77			B
2	50	345 Y	3.6 Y	1.5	-280	370			2BH7410-0AP21-7 ³⁾	A
	60	400 Y	3.4 Y	1.75	-350	470				A
	87	345 Δ	6.1 Δ	2.6	-410	400				C
3	50	345 Y	5.1 Y	2.2	-280	370	58	66	2BH7410-0AP31-7 ³⁾	B
	60	400 Y	5.1 Y	2.55	-350	470	62			B
	87	345 Δ	8.8 Δ	3.8	-410	500	77			D

- 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 connected, but no relief valves fitted, tolerance ±3 dB (A).
- 3) PTC sensores recommended for motor overload protection. Ordering example: 2BH7410- □□□□-□-Z Z=A11

All G-BH blowers conform to 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.
A	2FC4152-1 □□ 00	400V (-15%)	4.0	1.5	3.3	10	3.9	2FX16190ER00
B	2FC4222-1 □□ 00		5.6	2.2	4.6	10	5.0	2FX16490ER00
C	2FC4302-1 □□ 00	...	7.5	3.0	6.2	16		
D	2FC4402-1 □□ 00	480V (+10%)	9.5	4.0	7.9	16		
I/O's and automation						Order option	Example:	
ST	2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS					STANDARD	2BH7410-0A221-7-Z Z=U51 VFD type 2FC4302-1PB00 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.
Manual control		Differential pressure transmitters	
MMI handheld	2FX4520-0ER00	Vacuum -1000 ... 0 mbar	2FX6022-0BD00
USB adaptor cable	2FX4521-0ER00	Pressure 0 ... 600 mbar	2FX6013-0BD00

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

**Gardner
Denver**

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-elmorietschle.com • er.de@gardnerdenver.com

Gardner Denver, Inc.

1800 Gardner Expressway
Quincy, IL 62305
Tel: 217-222-5400
Fax: 217-221-8780