

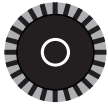
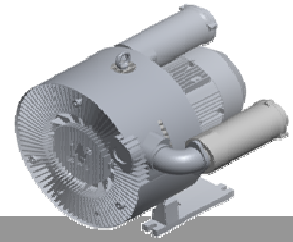


# Elmo Rietschle

## G-BH1

### Data sheet 2BH1 810

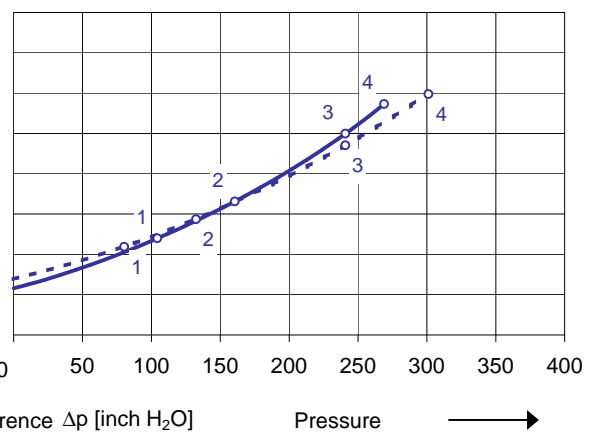
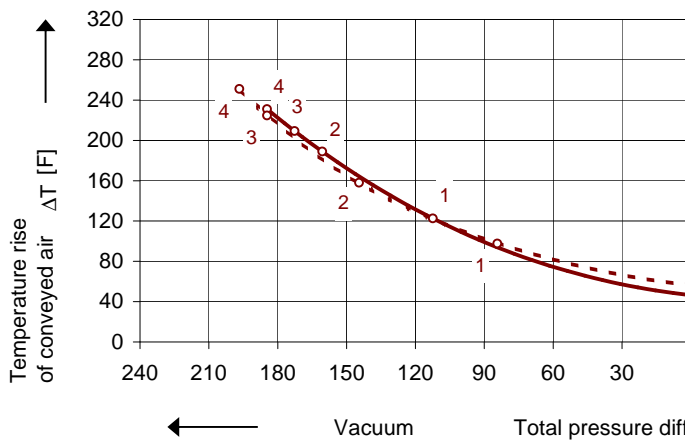
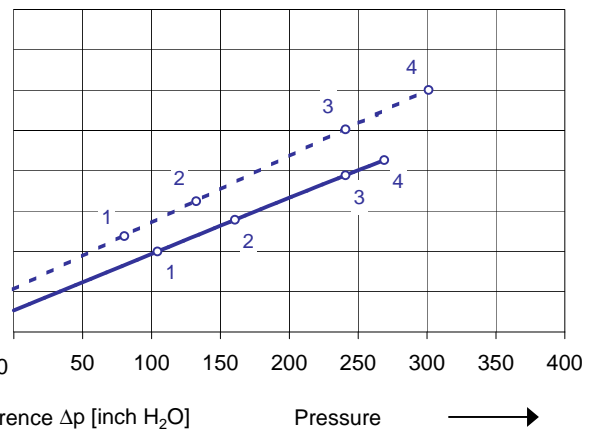
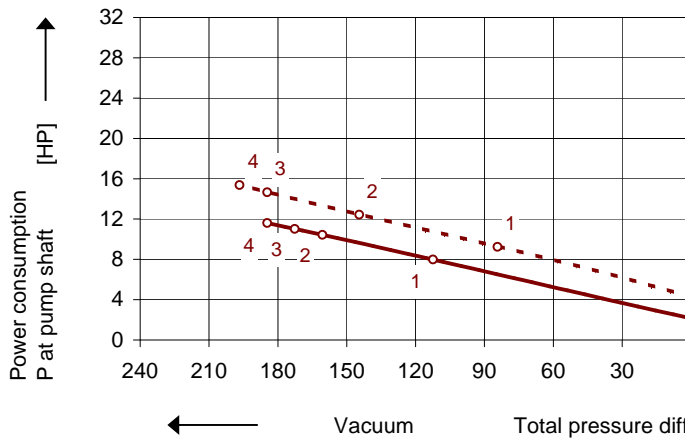
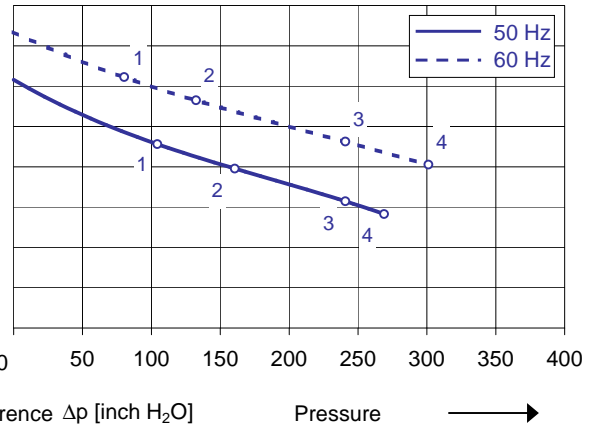
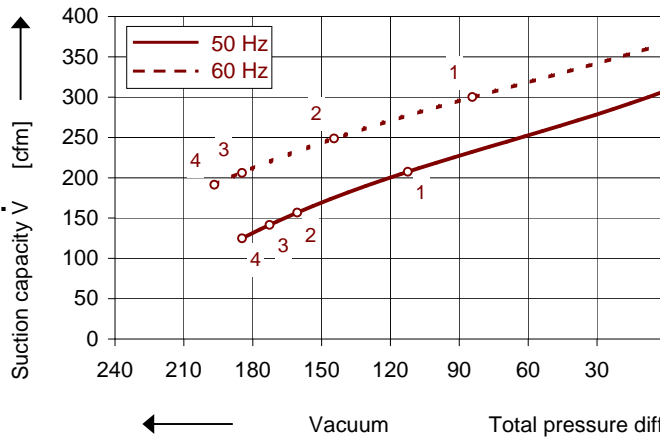
Side channel blower



#### 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 29.91 inch Hg with a tolerance of  $\pm 10\%$ . The total pressure differences are valid for inlet and ambient temperature up to 77 F. Suction capacity relates to inlet conditions. Pressure capacity relates to atmospheric conditions. For other conditions please get in touch with us.

Every G-BH blower can be used either for vacuum or pressure in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F. These blowers are UL and CSA approved.

## Selection and ordering data

### Type 2BH1 810

No.	Fre- quency	Rated			Max. differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight Approx.	Order No.
		Voltage <sup>1)</sup>	Current	Power	Vacuum	Pressure			
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)</b>									
1	50	200-240 Δ / 345-415 Y	23.5 Δ / 13.3 Y	7.4	-112	104	74	377	<b>2BH1810-7HH16</b>
	60	220-275 Δ / 380-480 Y	23.5 Δ / 13.3 Y	8.4	-84	80	78		
2	50	200-240 Δ / 345-415 Y	29.0 Δ / 16.7 Y	10.1	-161	161	74	390	<b>2BH1810-7HH26</b>
	60	220-275 Δ / 380-480 Y	30.8 Δ / 17.6 Y	11.5	-145	132	78		
3	50	200-240 Δ / 345-415 Y	48.5 Δ / 28 Y	14.8	-173	241	74	448	<b>2BH1810-7HH36</b>
	60	220-275 Δ / 380-480 Y	50.2 Δ / 29 Y	16.9	-185	241	78		
4	50	200-240 Δ / 345-415 Y	56.5 Δ / 32.5 Y	20.1	-185	269	74	474	<b>2BH1810-7HH46</b>
	60	220-275 Δ / 380-480 Y	60.0 Δ / 34.5 Y	23.2	-197	301	78		
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)</b>									
1	50	500 Δ	10.5 Δ	7.4	-112	104	74	377	<b>2BH1810-7HC15</b>
	60	575 Δ	10.4 Δ	8.4	-84	80	78		
2	50	500 Δ	13.0 Δ	10.1	-161	161	74	390	<b>2BH1810-7HC25</b>
	60	575 Δ	13.6 Δ	11.5	-145	132	78		
3	50	500 Δ	20.4 Δ	14.8	-173	241	74	448	<b>2BH1810-7HC35</b>
	60	575 Δ	20.4 Δ	16.9	-185	241	78		
4	50	500 Δ	24.0 Δ	20.1	-185	269	74	474	<b>2BH1810-7HC45</b>
	60	575 Δ	24.5 Δ	23.2	-197	301	78		

1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 460 V.

2) Relief valves available for limiting differential pressure.

3) 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).


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.

For three phase motors tolerances are +/-10% for fixed voltage motors and +/-5% for voltage range motors. Single phase machines are designed with a +/- 5% tolerance.

The frequency tolerance is +/- 2 % maximum.

## Motors for other mains

Voltage range		Fixed voltage		VFD			
50 Hz	60 Hz	50 Hz	60 Hz	87 Hz	60 Hz	2BH1810-7. □ . □	
					Δ	Y	
<b>3~</b>							
185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y			380 V Δ	•	•	H 1 H 6 H 7 C 3 C 5
200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y				•	•	
345 - 415 V Δ / 600 - 720 V Y	380 - 480 V Δ / 660 - 720 V Y				•	•	
		500 V Δ	575 V Δ		•	•	
<b>3~</b>							
		<b>IE2 3~ <sup>5)</sup></b>					
180 - 240 V Δ / 310 - 415 V Y	200 - 275 V Δ / 345 - 480 V Y	200 V Δ / 345 V Y	230 V Δ / 400 V Y	400 V Δ	•	•	P 1 P 3 P 5 P 6 P 7
450 - 550 V Y	520 - 600 V Y	500 V Y	575 V Y		•	•	
450 - 550 V Δ	520 - 600 V Δ	500 V Δ	575 V Δ		•	•	
200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	230 V Δ / 400 V Y	265 V Δ / 460 V Y		•	•	
350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	400 V Δ / 690 V Y	460 V Δ	•	•		

5) Performance can differ if IE2 motors are used. Please refer to corresponding data sheets.

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**

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