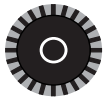
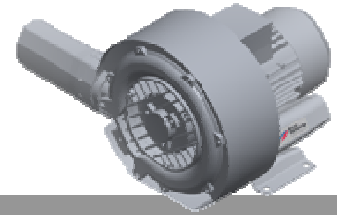


G-BH 1 N

Data sheet 2BH1 410

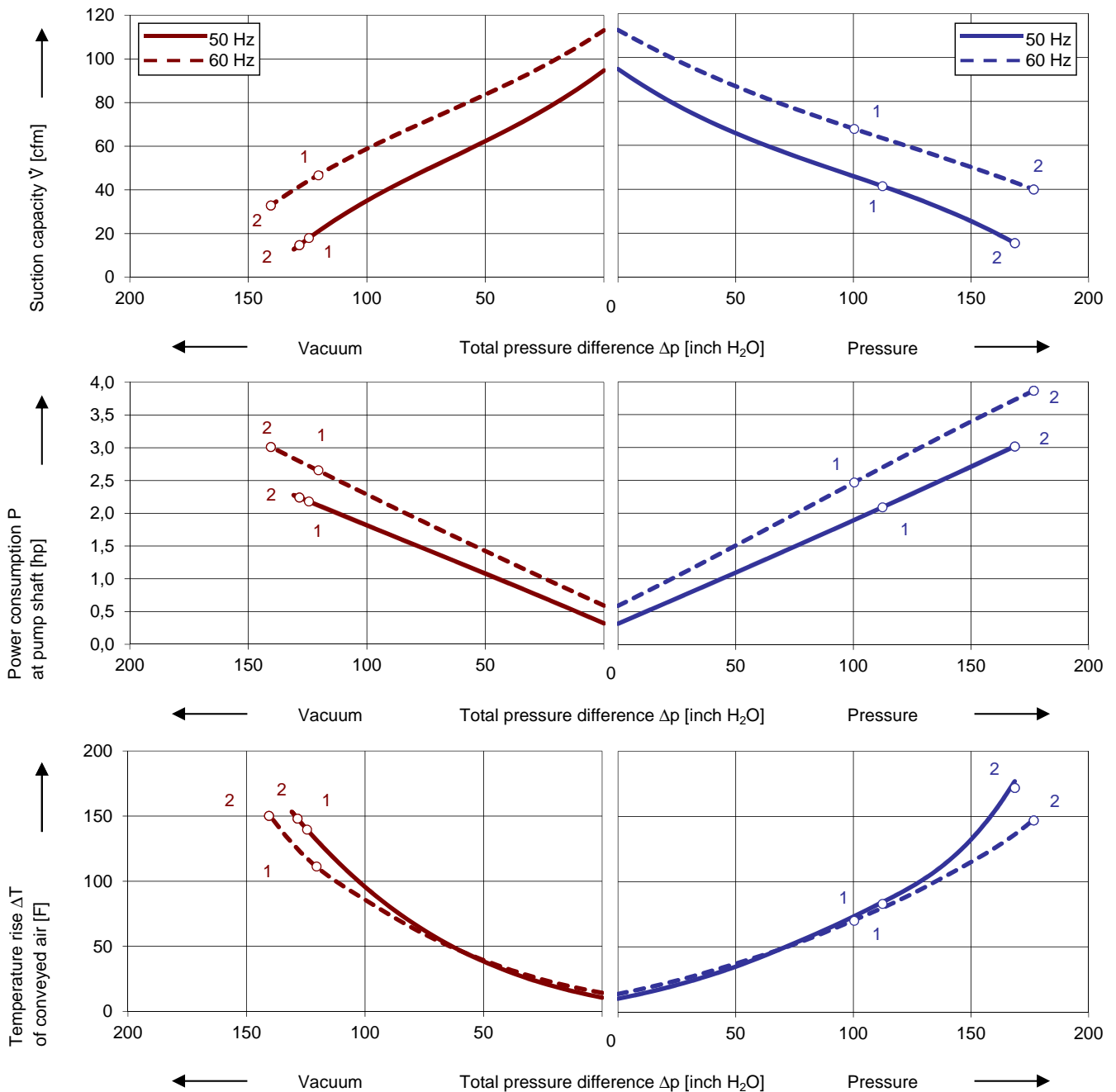
Side channel blower with NEMA Premium motor



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.

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

Selection and ordering data

Type											
No.	Fre- quency	Rated			Max. differential ²⁾ pressure		sound press. level ³⁾	Efficiency class ⁴⁾	Weight approx.	Order No.	
		Voltage ¹⁾		Current	Power	Vacuum					Pressure
		Hz	V	A	hp	inch H ₂ O					
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	190-210 Δ	6,9 Δ	2,3	-124	112	65	IE3	71	2BH1410-1HK31	
	60	190-210 YY / 380-420 Y	7,8 YY / 3,9 Y	2,7	-120	100	68	IE3			
	60	200 YY	7,8 YY	2,7	-120	100	68	NP			
2	50	190-210 Δ	9,9 Δ	3,4	-128	169	67	IE3	79	2BH1410-1HK41	
	60	190-210 YY / 380-420 Y	12,0 YY / 6,0 Y	4,0	-141	177	77	IE3			
	60	200 YY	12,0 YY	4,0	-141	177	77	NP			
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	220-240 Δ / 380-420 Y	6,0 Δ / 3,45 Y	2,3	-124	112	65	IE3	71	2BH1410-1HK36	
	60	220-240 YY / 440-480 Y	6,8 YY / 3,4 Y	2,7	-120	100	68	IE3			
	60	230 YY / 460 Y	6,8 YY / 3,4 Y	2,7	-120	100	68	NP			
2	50	220-240 Δ / 380-420 Y	8,6 Δ / 5,0 Y	3,4	-128	169	67	IE3	79	2BH1410-1HK46	
	60	220-240 YY / 440-480 Y	10,4 YY / 5,2 Y	4,0	-141	177	77	IE3			
	60	230 YY / 460 Y	10,4 YY / 5,2 Y	4,0	-141	177	77	NP			
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	475-525 Y	2,76 Y	2,3	-124	112	65	IE3	71	2BH1410-1HQ33	
	60	550-600 Y	2,72 Y	2,7	-120	100	68	NP			
2	50	475-525 Y	4,00 Y	3,4	-128	169	67	IE3	77	2BH1410-1HQ43	
	60	550-600 Y	4,1 Y	4,0	-141	177	77	NP			
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	380-420 Δ / 660-725 Y	3,45 Δ / 2,00 Y	2,3	-124	112	65	IE3	71	2BH1410-1HQ37	
	60	440-480 Δ	3,40 Δ	2,7	-120	100	68	IE3			
	60	460 Δ	3,40 Δ	2,7	-120	100	68	NP			
2	50	380-420 Δ / 660-725 Y	5,0 Δ / 2,90 Y	3,4	-128	169	67	IE3	77	2BH1410-1HQ47	
	60	440-480 Δ	5,2 Δ	4,0	-141	177	77	IE3			
	60	460 Δ	5,2 Δ	4,0	-141	177	77	NP			

- In case of variable frequency drive operation the standard motor insulation system is suitable for VFD input voltages up to 500 V.
- Relief valves available for limiting differential pressure.
- 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).
- The motors according to NEMA MG1-12. NP=NEMA Premium; NEMA Premium includes IE3.








All G-BH blowers conform to the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Service factor (SF) and motor efficiency according NEMA MG1-12.

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

Motor for alternate voltages

Voltage range		Efficiency ⁴⁾	c  us	2BH1...-1. □ . □					
50 Hz	60Hz			60 Hz					
3~									
200 VΔ	200 V YY / 230 VΔ / 400 VY		•	K	1				
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY								
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY		•	K	6				
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY								
475-525 V Y	550-600 V Y		•	Q	3				
475-525 VΔ	550-600 VΔ						•	Q	5
400 VΔ / 690 V Y	460 VΔ								

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.

Elmo Rietschle is a brand of Gardner Denver

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