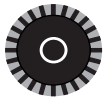


G-BH 1 N Data sheet 2BH1 510

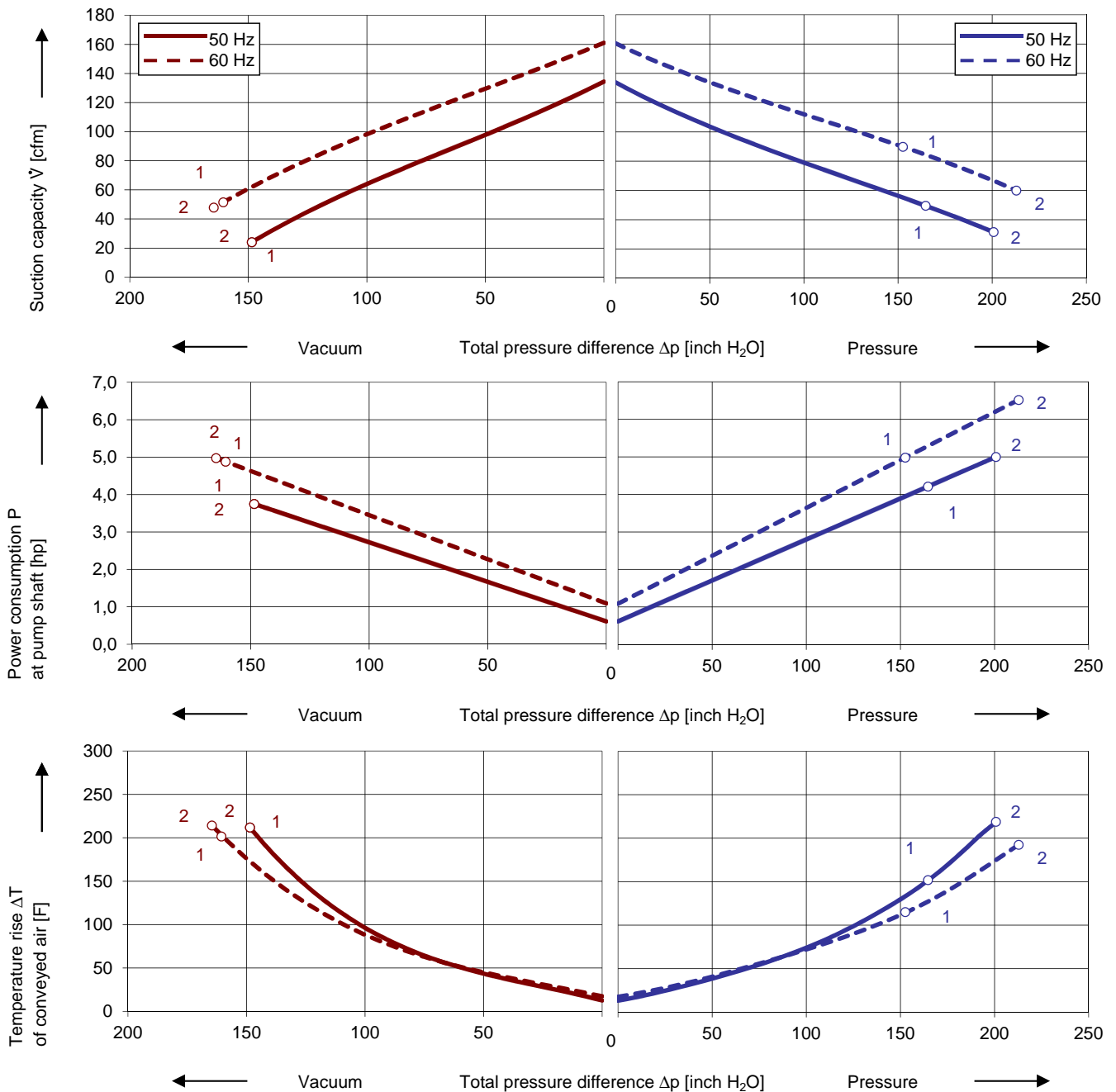
Side channel blower with NEMA Premium motor



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	13,3 Δ	4,6	-149	165	71	IE3	150	2BH1510-1HK41	
	60	190-210 YY / 380-420 Y	15,2 YY / 7,6 Y	5,4	-161	153	73	IE3			
	60	200 YY	15,2 YY	5,4	-161	153	73	NP			
2	50	190-210 Δ	17,7 Δ	6,2	-149	201	70	IE3	0	2BH1510-1HK51	
	60	190-210 YY / 380-420 Y	20,0 YY / 10,0 Y	7,1	-165	213	73	IE3			
	60	230 Δ	20,0 Δ	7,1	-165	213	73	NP			
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	220-240 Δ / 380-420 Y	11,6 Δ / 6,7 Y	4,6	-149	165	71	IE3	150	2BH1510-1HK46	
	60	220-240 YY / 440-480 Y	13,2 YY / 6,6 Y	5,4	-161	165	73	IE3			
	60	230 YY / 460 Y	13,2 YY / 6,6 Y	5,4	-161	165	73	NP			
2	50	220-240 Δ / 380-420 Y	15,4 Δ / 8,9 Y	6,2	-149	201	70	IE3	0	2BH1510-1HK56	
	60	220-240 YY / 440-480 Y	17,4 YY / 8,7 Y	7,1	-165	213	73	IE3			
	60	230 YY / 460 Y	17,4 YY / 8,7 Y	7,1	-165	213	73	NP			
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	475-525 Y	5,4 Y	4,6	-149	165	71	IE3	117	2BH1510-1HQ43	
	60	550-600 Y	5,3 Y	5,4	-161	153	73	NP			
2	50	475-525 Y	7,1 Y	6,2	-149	201	70	IE3	0	2BH1510-1HQ53	
	60	550-600 Y	6,95 Y	7,1	-165	213	73	NP			
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	380-420 Δ / 660-725 Y	6,7 Δ / 3,85 Y	4,6	-149	165	71	IE3	117	2BH1510-1HQ47	
	60	440-480 Δ	6,6 Δ	5,4	-161	153	73	IE3			
	60	460 Δ	6,6 Δ	5,4	-161	153	73	NP			
2	50	380-420 Δ / 660-725 Y	8,9 Δ / 5,1 Y	6,2	-149	201	70	IE3	0	2BH1510-1HQ57	
	60	440-480 Δ	8,7 Δ	7,0	-165	213	73	IE3			
	60	460 Δ	8,7 Δ	7,0	-165	213	73	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				
400 VΔ / 690 V Y	460 VΔ				
			•	Q	5
			•	Q	7

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

**Gardner
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