



Elmo Rietschle

G-BH 1 N Data sheet 2BH7 510

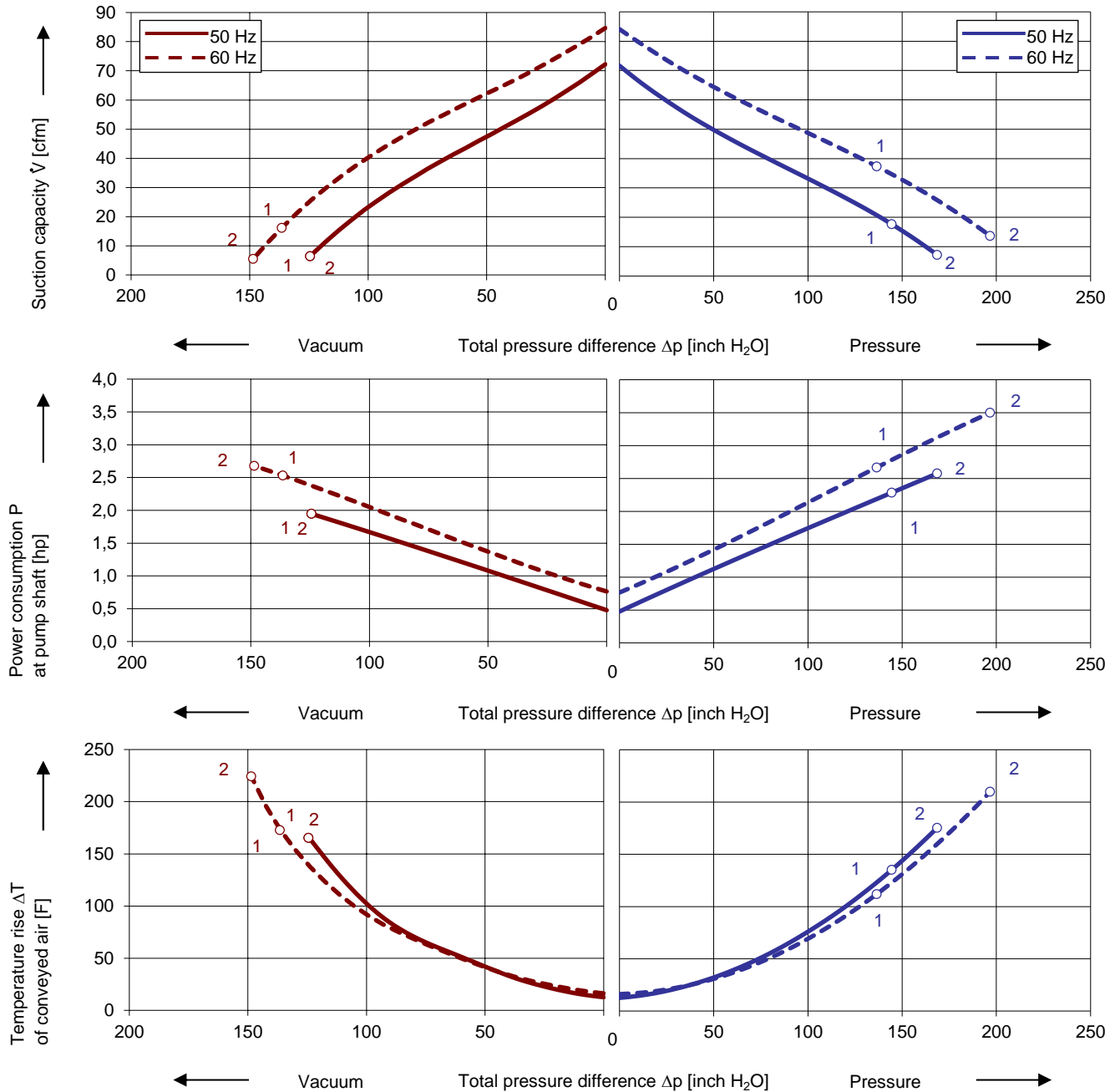
Side channel blower with NEMA Premium motor



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 ± 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 (certificate number E489378)										
1	50	190-210 Δ	6,9 Δ	2,3	-124	145	64	IE3	73	2BH7510-0AK11-1
	60	190-210 YY / 380-420 Y	7,8 YY / 3,9 Y	2,7	-136	136	68	IE3		
	60	200 YY	7,8 YY	2,7	-136	136	68	NP		
2	50	190-210 Δ	9,9 Δ	3,4	-124	169	64	IE3	84	2BH7510-0AK21-1
	60	190-210 YY / 380-420 Y	12,0 YY / 6,0 Y	4,0	-149	197	68	IE3		
	60	200 YY	12,0 YY	4,0	-149	197	68	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	220-240 Δ / 380-420 Y	6,0 Δ / 3,45 Y	2,3	-124	145	64	IE3	73	2BH7510-0AK16-1
	60	220-240 YY / 440-480 Y	6,8 YY / 3,4 Y	2,7	-136	136	68	IE3		
	60	230 YY / 460 Y	6,8 YY / 3,4 Y	2,7	-136	136	68	NP		
2	50	220-240 Δ / 380-420 Y	8,6 Δ / 5,0 Y	3,4	-124	169	64	IE3	84	2BH7510-0AK26-1
	60	220-240 YY / 440-480 Y	10,4 YY / 5,2 Y	4,0	-149	197	68	IE3		
	60	230 YY / 460 Y	10,4 YY / 5,2 Y	4,0	-149	197	68	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	500 Y	2,76 Y	2,3	-124	145	64	IE3	73	2BH7510-0AQ13-1
	60	575 Y	2,72 Y	2,7	-136	136	68	NP		
2	50	500 Y	4,00 Y	3,4	-124	169	64	IE3	84	2BH7510-0AQ23-1
	60	575 Y	4,1 Y	4,0	-149	197	68	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	380-420 Δ / 660-725 Y	3,45 Δ / 2,00 Y	2,3	-124	145	64	IE3	73	2BH7510-0AQ17-1
	60	440-480 Δ	3,40 Δ	2,7	-136	136	68	IE3		
	60	460 Δ	3,40 Δ	2,7	-136	136	68	NP		
2	50	380-420 Δ / 660-725 Y	5,0 Δ / 2,90 Y	3,4	-124	169	64	IE3	84	2BH7510-0AQ27-1
	60	440-480 Δ	5,2 Δ	4,0	-149	197	68	IE3		
	60	460 Δ	5,2 Δ	4,0	-149	197	68	NP		

2) Relief valves available for limiting differential pressure.

3) 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).

4) 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⁾		2BH1...-1. <input type="checkbox"/> <input type="checkbox"/>	
50 Hz	60Hz			60 Hz	
3~					
200 VΔ	200 V YY / 230 VΔ / 400 VY		•	<input type="checkbox"/>	<input type="checkbox"/>
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY	IE3	•	<input type="checkbox"/>	<input type="checkbox"/>
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY		•	<input type="checkbox"/>	<input type="checkbox"/>
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY	IE3	•	<input type="checkbox"/>	<input type="checkbox"/>
475-525 V Y	550-600 V Y		•	<input type="checkbox"/>	<input type="checkbox"/>
475-525 VΔ	550-600 VΔ		•	<input type="checkbox"/>	<input type="checkbox"/>
400 VΔ / 690 V Y	460 VΔ		•	<input type="checkbox"/>	<input type="checkbox"/>

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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