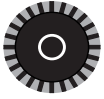


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Data sheet 2BH7 410

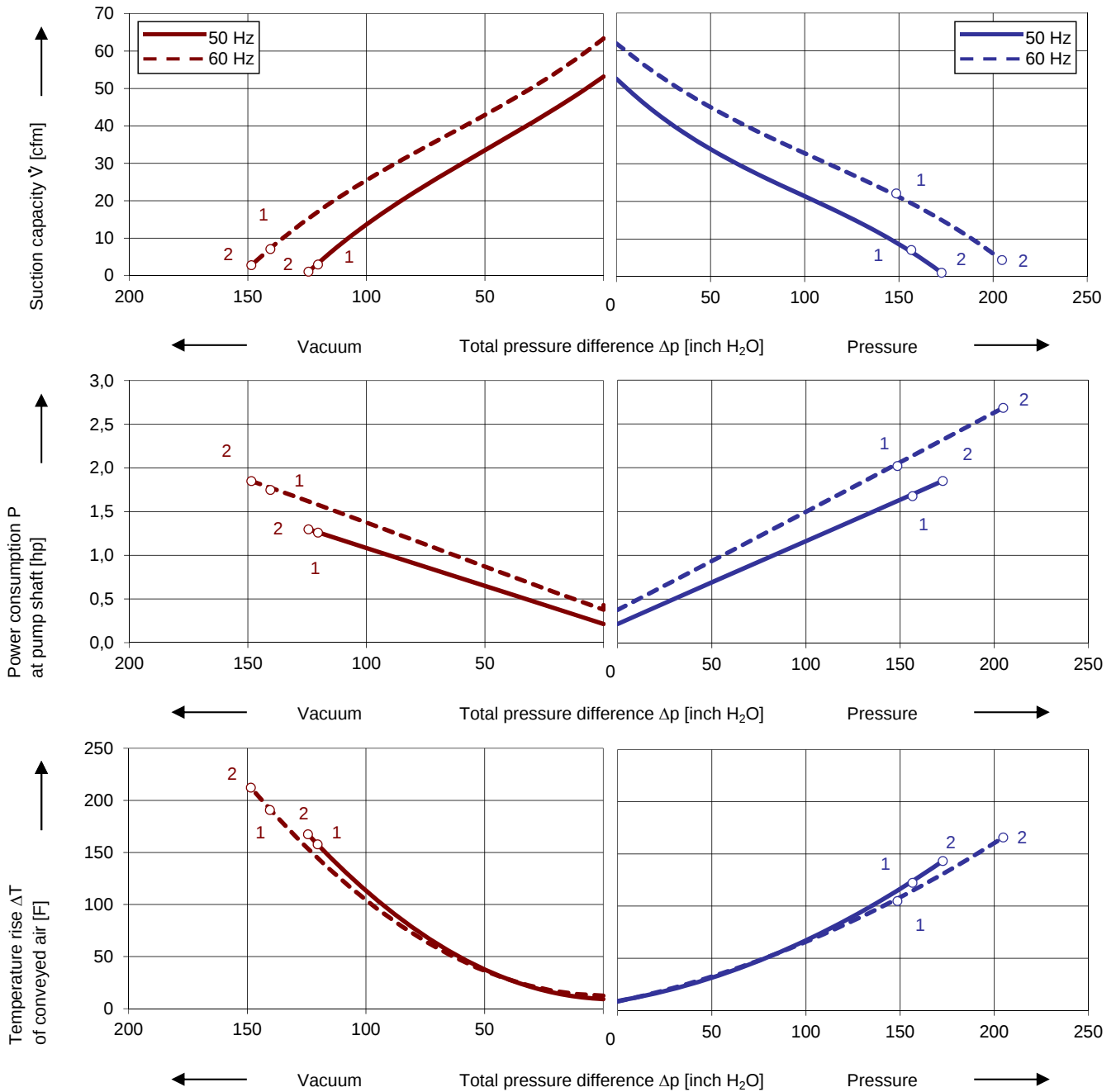
Side channel blower with NEMA Premium motor



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⁾ dB(A)	Efficiency class ⁴⁾	Weight approx. lbs	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure				
		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	5,6 Δ	1,7	-120	157	58	IE3	57	2BH7410-0AK11-1
	60	190-210 YY / 380-420 Y	6,3 YY / 3,16 Y	2,1	-141	149	62	IE3		
	60	200 YY	6,3 YY	2,1	-141	149	62	NP		
2	50	190-210 Δ	6,9 Δ	2,3	-124	173	58	IE3	64	2BH7410-0AK21-1
	60	190-210 YY / 380-420 Y	7,8 YY / 3,9 Y	2,7	-149	205	62	IE3		
	60	200 YY	7,8 YY	2,7	-149	205	62	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	220-240 Δ / 380-420 Y	4,9 Δ / 2,85 Y	1,7	-120	157	58	IE3	57	2BH7410-0AK16-1
	60	220-240 YY / 440-480 Y	5,5 YY / 2,75 Y	2,1	-141	149	62	IE3		
	60	230 YY / 460 Y	5,5 YY / 2,75 Y	2,1	-141	149	62	NP		
2	50	220-240 Δ / 380-420 Y	6,0 Δ / 3,45 Y	2,3	-124	173	58	IE3	64	2BH7410-0AK26-1
	60	220-240 YY / 440-480 Y	6,8 YY / 3,4 Y	2,7	-149	205	62	IE3		
	60	230 YY / 460 Y	6,8 YY / 3,4 Y	2,7	-149	205	62	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	500 Y	2,28 Y	1,7	-120	157	58	IE3	57	2BH7410-0AQ13-1
	60	575 Y	2,20 Y	2,1	-141	149	62	NP		
2	50	500 Y	2,76 Y	2,3	-124	173	58	IE3	64	2BH7410-0AQ23-1
	60	575 Y	2,72 Y	2,7	-149	205	62	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)										
1	50	380-420 Δ / 660-725 Y	2,85 Δ / 1,65 Y	1,7	-120	157	58	IE3	57	2BH7410-0AQ17-1
	60	440-480 Δ	2,75 Δ	2,1	-141	149	62	IE3		
	60	460 Δ	2,75 Δ	2,1	-141	149	62	NP		
2	50	380-420 Δ / 660-725 Y	3,45 Δ / 2,00 Y	2,3	-124	173	58	IE3	64	2BH7410-0AQ27-1
	60	440-480 Δ	3,4 Δ	2,7	-149	205	62	IE3		
	60	460 Δ	3,4 Δ	2,7	-149	205	62	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)	 US			
50 Hz		60Hz					60 Hz	2BH1...-1.	
3~									
200 VΔ		200 V YY / 230 VΔ / 400 VY				•		K	1
190-210 VΔ		190-210 VYY / 220-240 VΔ / 380-420VY			IE3				
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			IE3				
475-525 V Y		550-600 V Y				•		Q	3
475-525 VΔ		550-600 VΔ							
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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