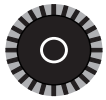


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Data sheet 2BH1 930

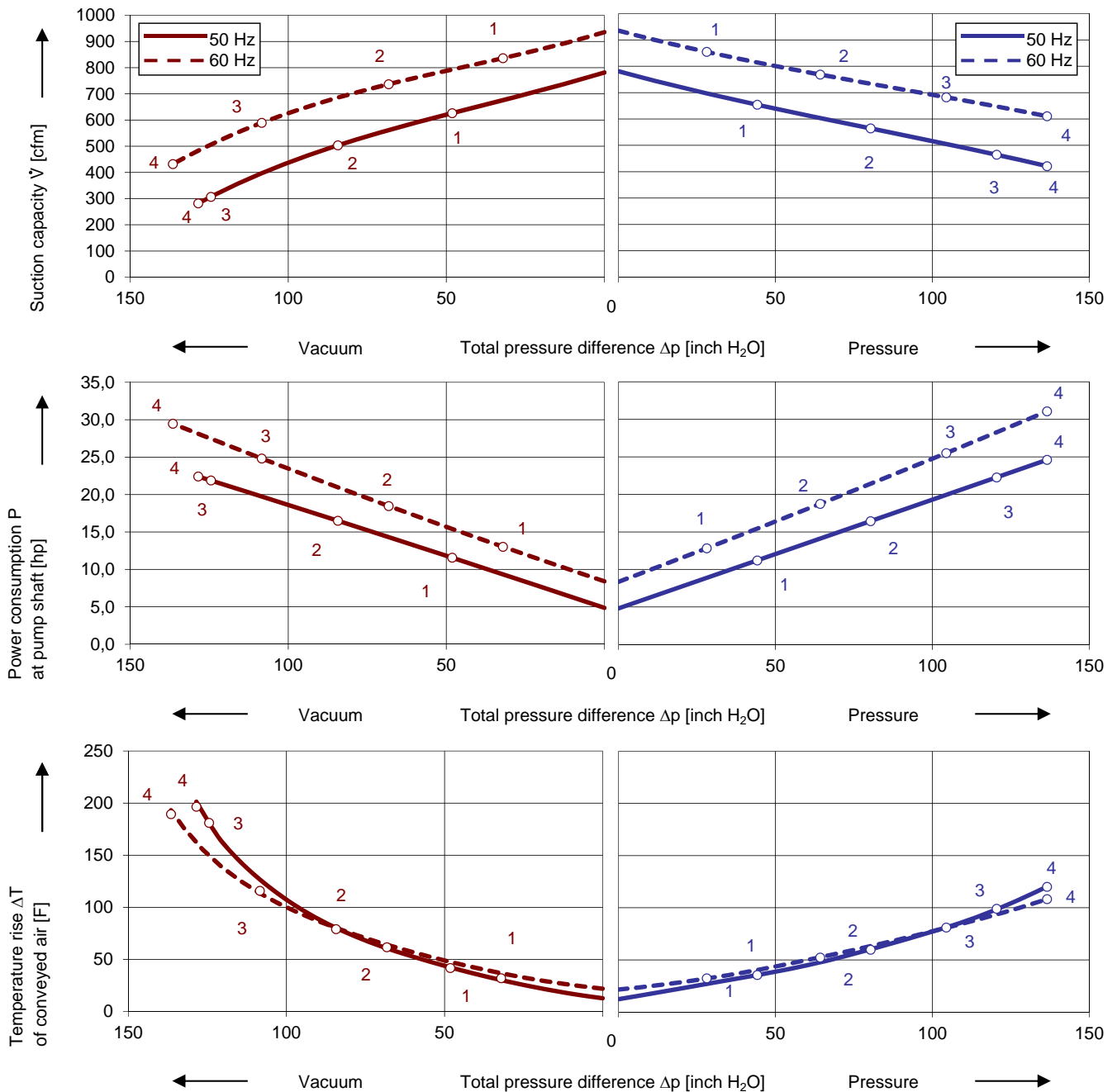
Side channel blower with NEMA Premium motor



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
		V		A	hp	inch H ₂ O					dB(A)
IE3 3- 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	190-210 Δ		30,8 Δ	11,5	-48	44	71	IE3	401	2BH1930-1AK01
	60	190-210 YY / 380-420 Y		35,2 YY / 17,6 Y	13,3	-32	28	76	IE3		
	60	200 YY		35,2 YY	13,3	-32	28	76	NP		
2	50	190-210 Δ		46,4 Δ	16,9	-84	80	71	IE3	461	2BH1930-1AK11
	60	190-210 YY / 380-420 Y		52,8 YY / 26,4 Y	19,4	-68	64	76	IE3		
	60	200 YY		52,8 YY	19,4	-68	64	76	NP		
3	50	190-210 Δ		63,1 Δ	23,2	-124	120	71	IE3	485	2BH1930-1AK21
	60	190-210 YY / 380-420 Y		72,2 YY / 36,1 Y	26,7	-108	104	76	IE3		
	60	200 YY		72,2 YY	26,7	-108	104	76	NP		
4	50	190-210 Δ		76,2 Δ	28,6	-128	149	71	IE3	503	2BH1930-1AK31
	60	190-210 YY / 380-420 Y		87,4 YY / 43,7 Y	32,9	-136	136	76	IE3		
	60	200 YY		87,4 YY	32,9	-136	136	76	NP		
IE3 3- 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	220-240 Δ / 380-420 Y		26,8 Δ / 15,5 Y	11,5	-48	44	71	IE3	401	2BH1930-1AK06
	60	220-240 YY / 440-480 Y		30,6 YY / 15,3 Y	13,3	-32	28	76	IE3		
	60	230 YY / 460 Y		30,6 YY / 15,3 Y	13,3	-32	28	76	NP		
2	50	220-240 Δ / 380-420 Y		40,3 Δ / 23,3 Y	16,9	-84	80	71	IE3	461	2BH1930-1AK16
	60	220-240 YY / 440-480 Y		46,0 YY / 23,0 Y	19,4	-68	64	76	IE3		
	60	230 YY / 460 Y		46,0 YY / 23,0 Y	19,4	-68	64	76	NP		
3	50	220-240 Δ / 380-420 Y		54,9 Δ / 31,7 Y	23,2	-124	120	71	IE3	485	2BH1930-1AK26
	60	220-240 YY / 380-420 Y		62,8 YY / 31,4 Y	26,7	-108	104	76	IE3		
	60	230 YY / 460 Y		62,8 YY / 31,4 Y	26,7	-108	104	76	NP		
4	50	220-240 Δ / 380-420 Y		66,3 Δ / 38,3 Y	28,6	-128	149	71	IE3	503	2BH1930-1AK36
	60	220-240 YY / 440-480 Y		76,0 YY / 38,0 Y	32,9	-136	136	76	IE3		
	60	230 YY / 460 Y		76,0 YY / 38,0 Y	32,9	-136	136	76	NP		
IE3 3- 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	475-525 Y		12,4 Y	11,5	-48	44	74	IE3	397	2BH1930-1AQ03
	60	550-600 Y		12,2 Y	13,3	-32	28	79	NP		
2	50	475-525 Y		18,6 Y	16,9	-84	80	74	IE3	441	2BH1930-1AQ13
	60	550-600 Y		18,4 Y	19,4	-68	64	79	NP		
3	50	475-525 Y		25,4 Y	23,2	-124	120	74	IE3	463	2BH1930-1AQ23
	60	550-600 Y		25,1 Y	26,7	-108	104	79	NP		
4	50	475-525 Y		30,6 Y	28,6	-128	149	71	IE3	326	2BH1930-1AQ33
	60	550-600 Y		30,4 Y	32,9	-136	136	75	NP		
IE3 3- 50/60 Hz, IP55, Insulation material class F, UL 1450 (certificate number E225239)											
1	50	380-420 Δ / 660-725 Y		15,5 Δ / 8,9 Y	11,5	-48	44	74	IE3	397	2BH1930-1AQ07
	60	440-480 Δ		15,3 Δ	13,3	-32	28	79	IE3		
	60	460 Δ		15,3 Δ	13,3	-32	28	79	NP		
2	50	380-420 Δ / 660-725 Y		23,3 Δ / 13,4 Y	16,9	-84	80	74	IE3	441	2BH1930-1AQ17
	60	440-480 Δ		23,0 Δ	19,4	-68	64	79	IE3		
	60	460 Δ		23,0 Δ	19,4	-68	64	79	NP		
3	50	380-420 Δ / 660-725 Y		31,7 Δ / 18,3 Y	23,2	-124	120	74	IE3	463	2BH1930-1AQ27
	60	440-480 Δ		31,4 Δ	26,7	-108	104	79	IE3		
	60	460 Δ		31,4 Δ	26,7	-108	104	79	NP		
4	50	380-420 Δ / 660-725 Y		38,3 Δ / 22,1 Y	28,6	-128	149	71	IE3	326	2BH1930-1AQ37
	60	440-480 Δ		38,0 Δ	32,9	-136	136	75	IE3		
	60	460 Δ		38,0 Δ	32,9	-136	136	75	NP		

- 1) In case of variable frequency drive operation the standard motor insulation system is suitable for VFD input voltages up to 500 V.
- 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.

Voltage range		Efficiency ⁴⁾	cULus	
50 Hz	60Hz		60 Hz	2BH1...-1
3~				
200 VΔ	200 V YY / 230 VΔ / 400 VY	NEMA Premium	•	K 1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY	IE3	•	K 1
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY	NEMA Premium	•	K 6
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY	IE3	•	K 6
475-525 V Y	550-600 V Y	NEMA Premium	•	Q 3
475-525 VΔ	550-600 VΔ	NEMA Premium	•	Q 5
400 VΔ / 690 V Y	460 VΔ	NEMA Premium	•	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

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