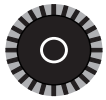


# G-BH 1 N

## Data sheet 2BH1 630

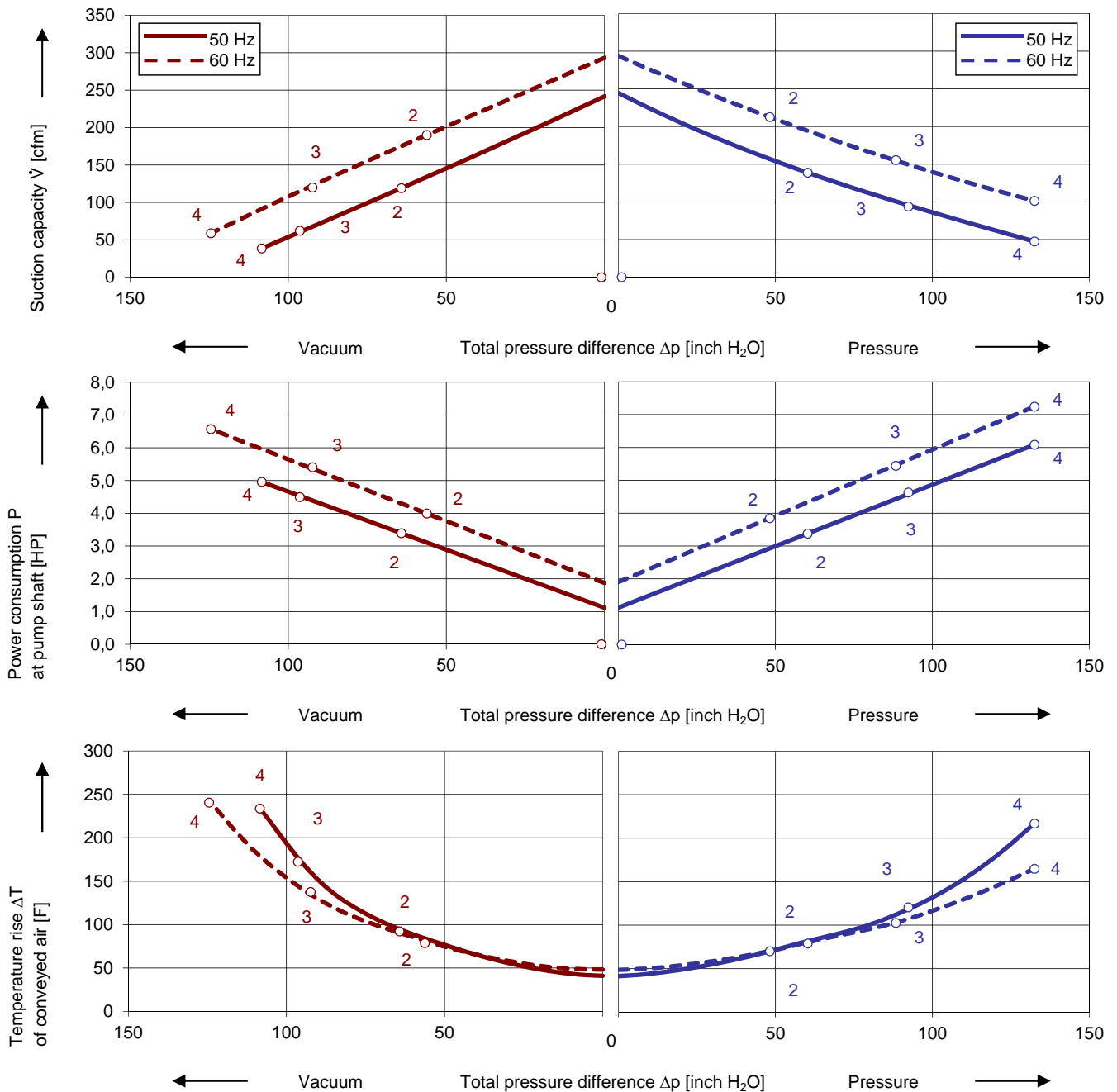
Side channel blower with NEMA Premium motor



### 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 <sup>2)</sup> pressure		sound press. level <sup>3)</sup>	Efficiency class <sup>4)</sup>	Weight approx.	Order No.
		Voltage <sup>1)</sup>	Current	Power	Vacuum	Pressure				
		Hz	V	A	HP	inch H <sub>2</sub> O				
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1004 and CNA/CSA 22.2 No 68-09 (certificate number E225239)</b>										
2	50	190-210 Δ	9,9 Δ	3,4	-64	60	69	IE3	108	2BH1630-1AK11
	60	190-210 YY / 380-420 Y	12,0 YY / 6,0 Y	4,0	-56	48	72	IE3		
	60	200 YY	12,0 YY	4,0	-56	48	72	NP		
3	50	190-210 Δ	11,7 Δ	4,6	-96	92	69	IE3	119	2BH1630-1AK21
	60	190-210 YY / 380-420 Y	15,0 YY / 7,5 Y	5,4	-92	88	72	IE3		
	60	200 YY	15,0 YY	5,4	-92	88	72	NP		
4	50	190-210 Δ	17,1 Δ	6,2	-108	132	69	IE3	139	2BH1630-1AK31
	60	190-210 YY / 380-420 Y	19,4 YY / 9,7 Y	7,1	-124	132	72	IE3		
	60	200 YY	19,4 YY	7,1	-124	132	72	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1004 and CNA/CSA 22.2 No 68-09 (certificate number E225239)</b>										
2	50	220-240 Δ / 380-420 Y	8,6 Δ / 5,0 Y	3,4	-64	60	69	IE3	108	2BH1630-1AK16
	60	220-240 YY / 440-480 Y	10,4 YY / 5,2 Y	4,0	-56	48	72	IE3		
	60	230 YY / 460 Y	10,4 YY / 5,2 Y	4,0	-56	48	72	NP		
3	50	220-240 Δ / 380-420 Y	10,0 Δ / 6,7 Y	4,6	-96	92	69	IE3	119	2BH1630-1AK26
	60	220-240 YY / 440-480 Y	13,0 YY / 6,5 Y	5,4	-92	88	72	IE3		
	60	230 YY / 460 Y	13,0 YY / 6,5 Y	5,4	-92	88	72	NP		
4	50	220-240 Δ / 380-420 Y	14,9 Δ / 8,6 Y	6,2	-104	116	69	IE3	139	2BH1630-1AK36
	60	220-240 YY / 440-480 Y	16,8 YY / 8,4 Y	7,1	-112	120	72	IE3		
	60	230 YY / 460 Y	16,8 YY / 8,4 Y	7,1	-112	120	72	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1004 and CNA/CSA 22.2 No 68-09 (certificate number E225239)</b>										
2	50	500 Y	4,00 Y	3,4	-64	60	69	IE3	108	2BH1630-1AQ13
	60	575 Y	4,1 Y	4,0	-56	48	72	NP		
3	50	500 Y	5,4 Y	4,6	-96	92	69	IE3	119	2BH1630-1AQ23
	60	575 Y	5,2 Y	5,4	-92	88	72	NP		
4	50	500 Y	6,8 Y	6,2	-104	116	69	IE3	139	2BH1630-1AQ33
	60	575 Y	6,7 Y	7,1	-112	120	72	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1004 and CNA/CSA 22.2 No 68-09 (certificate number E225239)</b>										
2	50	380-420 Δ / 660-725 Y	5,0 Δ / 2,90 Y	3,4	-64	60	69	IE3	108	2BH1630-1AQ17
	60	440-480 Δ	5,2 Δ	4,0	-56	48	72	IE3		
	60	460 Δ	5,2 Δ	4,0	-56	48	72	NP		
3	50	380-420 Δ / 660-725 Y	6,7 Δ / 3,85 Y	4,6	-96	92	69	IE3	119	2BH1630-1AQ27
	60	440-480 Δ	6,5 Δ	5,4	-92	88	72	IE3		
	60	460 Δ	6,5 Δ	5,4	-92	88	72	NP		
4	50	380-420 Δ / 660-725 Y	8,6 Δ / 5,0 Y	6,2	-104	116	69	IE3	139	2BH1630-1AQ37
	60	440-480 Δ	8,4 Δ	7,1	-104	116	72	IE3		
	60	460 Δ	8,4 Δ	7,1	-112	120	72	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 <sup>4)</sup>	c  us	60 Hz	2BH1...-1.	□ . □
50 Hz	60Hz					
<b>3~</b>						
200 VΔ	200 V YY / 230 VΔ / 400 VY		•		K	1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY	IE3	•		K	6
200 VΔ / 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	•		K	6
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		•		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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