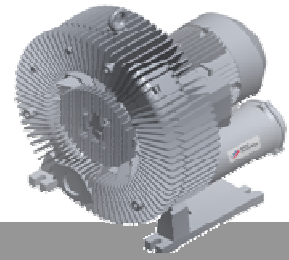


Elmo Rietschle

G-BH1

Data sheet 2BH1 830 HT

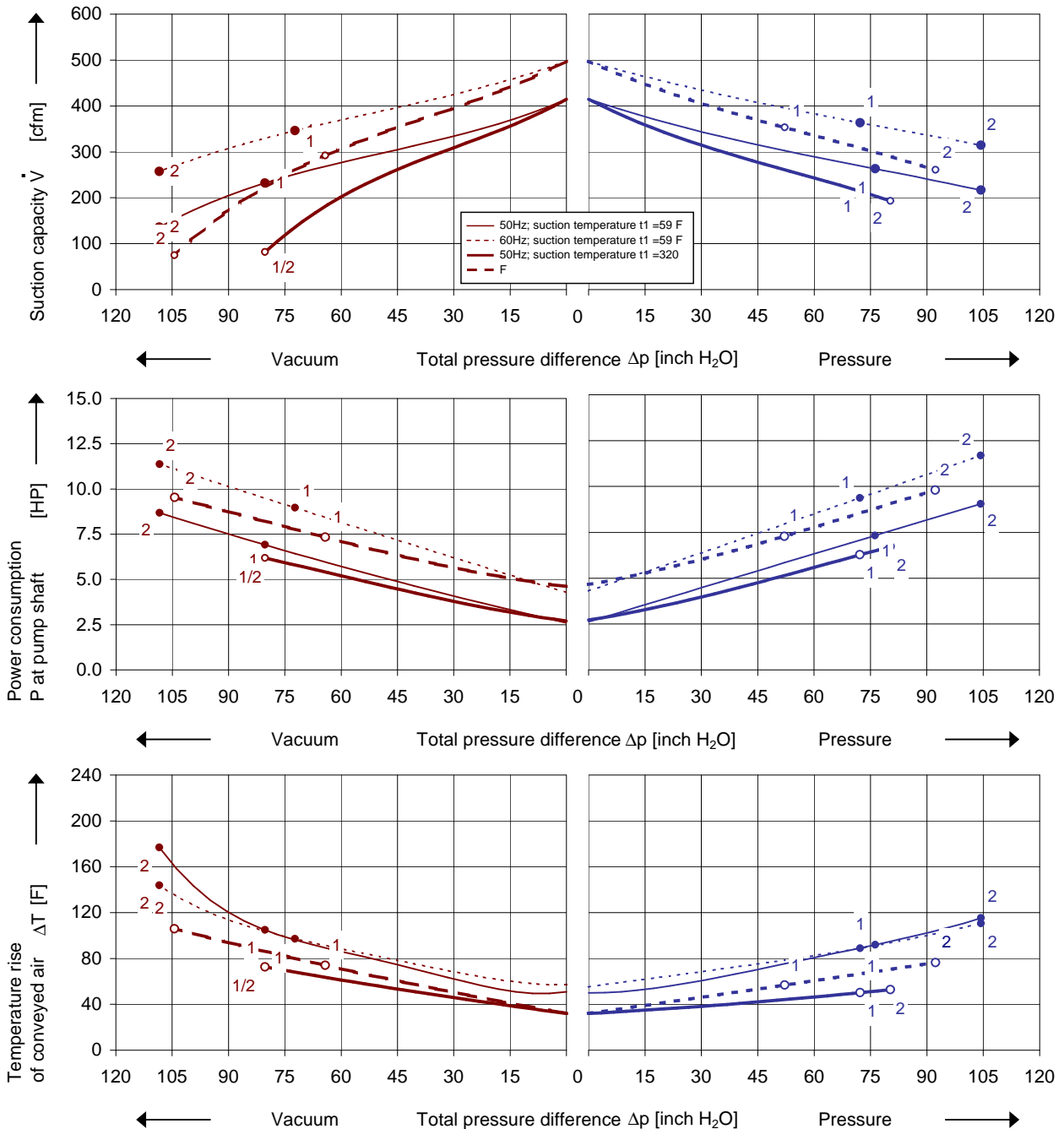
High temperature side channel blower



Performance curves

Vacuum operation (acfm)

Pressure operation (scfm)



The performance curves are based on air at a temperature of 59 F / 320 F and an atmospheric pressure of 407 inch H₂O with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 104 F. For other conditions please get in touch with us.

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.

Selection and ordering data

Type 2BH1 830									
No.	Fre- quency	Rated			Max. differential pressure ²⁾		Sound pressure level ³⁾	Weight Approx.	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure			
		Hz	V	A	HP			dB(A)	
3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)									
1	50	200-240 Δ / 345-415 Y	21.0 Δ / 12 Y	6.4	-80	72	70	309	2BH1830-6AH16
	60	220-275 Δ / 380-480 Y	20.5 Δ / 11.7 Y	7.4	-64	52	74		
2	50	200-240 Δ / 345-415 Y	26.0 Δ / 15 Y	8.7	-80	80	70	322	2BH1830-6AH26
	60	220-275 Δ / 380-480 Y	24.8 Δ / 14.3 Y	9.9	-104	92	74		
3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)									
1	50	500 Δ	9.2 Δ	6.4	-80	72	70	309	2BH1830-6AC15
	60	575 Δ	8.7 Δ	7.4	-64	52	74		
2	50	500 Δ	11.4 Δ	8.7	-80	80	70	322	2BH1830-6AC25
	60	575 Δ	10.7 Δ	9.9	-104	92	74		

- 1) In case of variable frequency drive operation the standard motor insulation system is suitable for VFD input voltages up to 460 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).


All G-BH blowers conform to the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F.

For three phase motors tolerances are +/-10% for fixed voltage motors and +/-5% for voltage range motors. Single phase machines are designed with a +/- 5% tolerance.

The frequency tolerance is +/- 2 % maximum.

Motor for alternate voltages

Voltage range		Fixed voltage		VFD			
50 Hz	60 Hz	50 Hz	60 Hz	87 Hz	60 Hz	2BH1830-6. □ . □	
					Δ	Y	
3~							
185 - 225 V Δ / 320 - 390 V Y	200 - 240 V Δ / 345 - 415 V Y				•	•	H 1
200 - 240 V Δ / 345 - 415 V Y	220 - 275 V Δ / 380 - 480 V Y				•	•	H 6
345 - 415 V Δ / 600 - 720 V Y	380 - 480 V Δ / 660 - 720 V Y			380 V Δ	•	•	H 7
		500 V Y	575 V Y		•	•	C 3
		500 V Δ	575 V Δ		•	•	C 5

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given do not constitute an obligation from our side to deliver as shown.

Elmo Rietschle is a brand of Gardner Denver

**Gardner
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