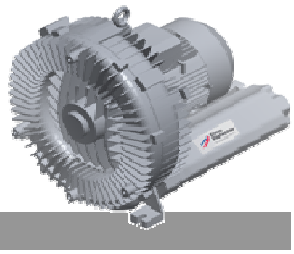
G-BH1

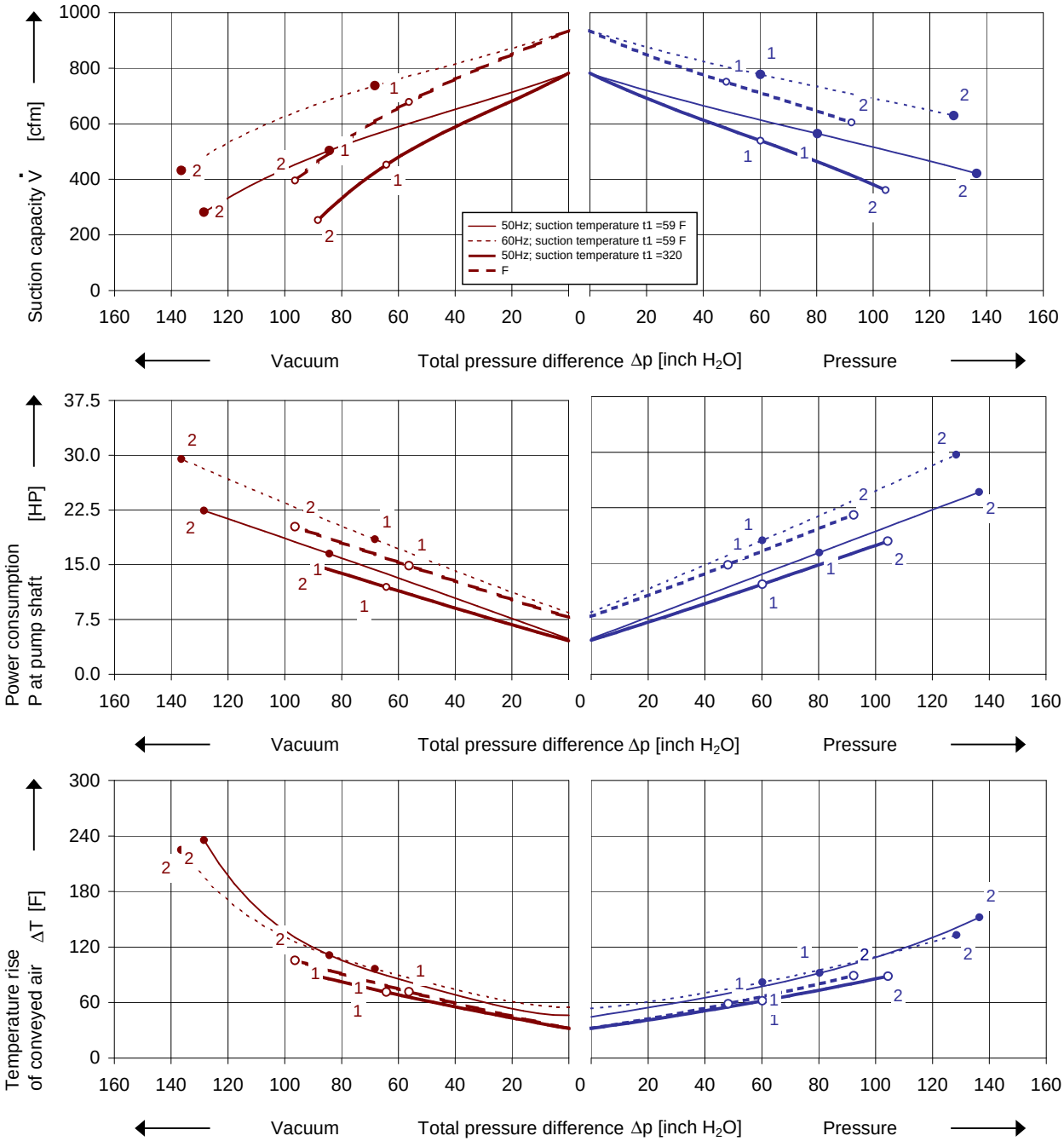
Data sheet 2BH1 930 HT

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 930

No.	Frequency	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)	ibs	
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	37.0 Δ / 21.5 Y	12.1	-64	60	75	474	**2BH1930-6AH16**
	60	220-275 Δ / 380-480 Y	36.5 Δ / 21 Y	14.8	-56	48	80		
2	50	200-240 Δ / 345-415 Y	52.0 Δ / 30 Y	17.8	-88	104	75	500	**2BH1930-6AH36**
	60	380-480 Δ / 380-480 Y	52.0 Δ / 30 Y	21.5	-96	92	80		
3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)									
1	50	500 Δ	16.3 Δ	12.1	-64	60	75	474	**2BH1930-6AC15**
	60	575 Δ	15.7 Δ	14.8	-56	48	80		
2	50	500 Δ	22.8 Δ	17.8	-88	104	75	500	**2BH1930-6AC35**
	60	575 Δ	22.8 Δ	21.5	-96	92	80		

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	c UL us		
50 Hz	**60 Hz**	**50 Hz**	**60 Hz**	**72 Hz**	**60 Hz** Δ	**60 Hz** Y	**2BH1930-6.** □ . □
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				•		**H 7**
		500 V Y	575 V Y	400 V Δ		•	**C 3**
		500 V Δ	575 V Δ		•		**C 5**

Elmo Rietschle is a brand of Gardner Denver

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