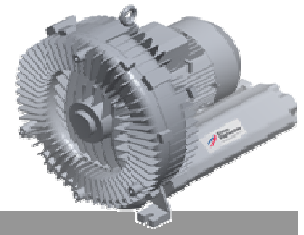


# G-BH1

## Data sheet 2BH1 900 HT

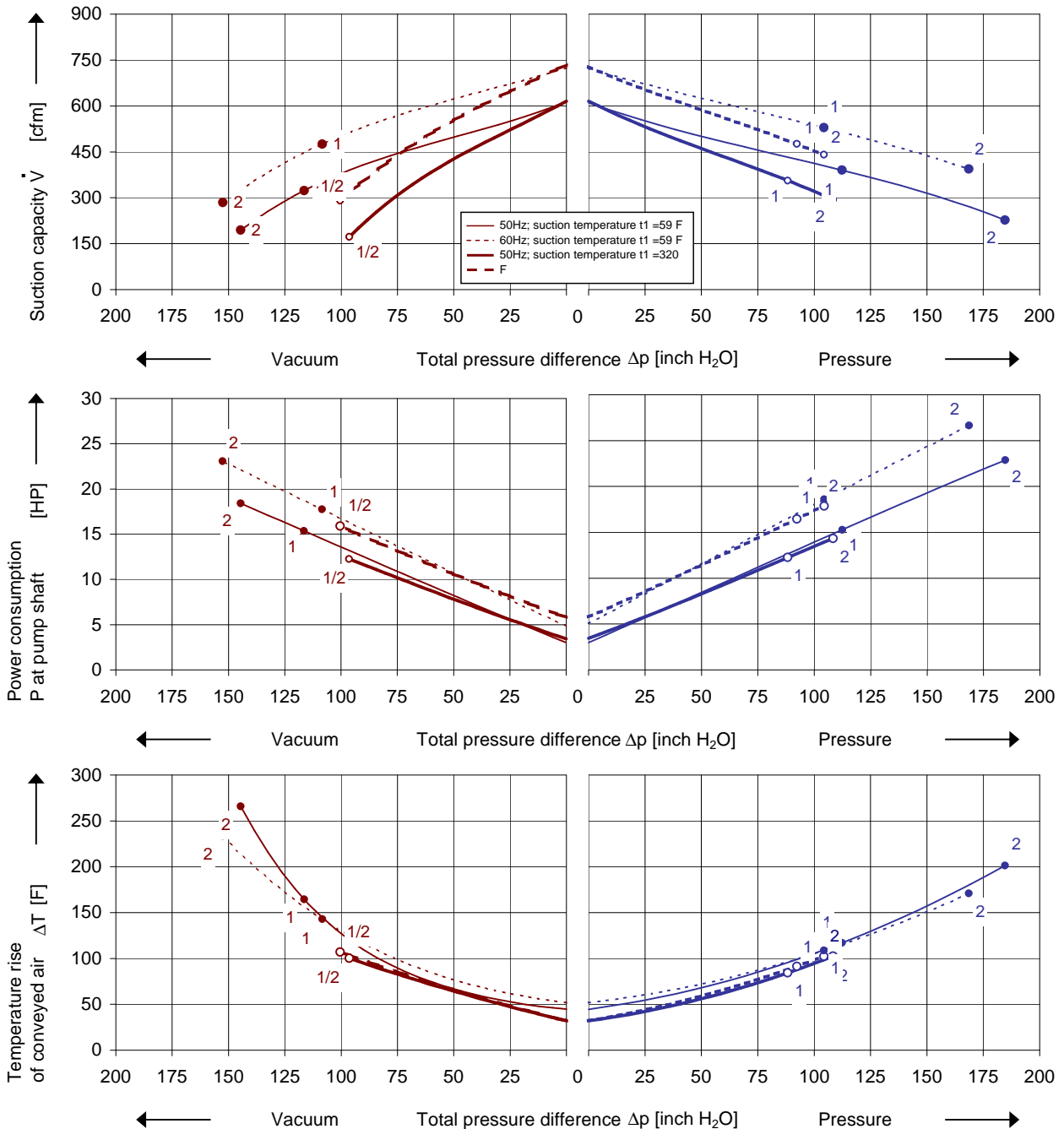
### High temperature side channel blower



#### 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 H<sub>2</sub>O 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 900									
No.	Fre- quency	Rated			Max. differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight Approx.	Order No.
		Voltage <sup>1)</sup>	Current	Power	Vacuum	Pressure			
		Hz	V	A	HP			dB(A)	
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)</b>									
1	50	200-240 Δ / 345-415 Y	37.0 Δ / 21.5 Y	12.1	-96	88	74	474	2BH1900-6AH16
	60	220-275 Δ / 380-480 Y	36.5 Δ / 21 Y	14.8	-100	92	79		
2	50	200-240 Δ / 345-415 Y	52.0 Δ / 30 Y	17.8	-96	108	74	500	2BH1900-6AH36
	60	380-480 Δ / 380-480 Y	52.0 Δ / 30 Y	21.5	-100	104	79		
<b>3~ 50/60 Hz, IP55, Insulation material class F, UL 507 and CSA 22.2 No 113 (certificate number E225239)</b>									
1	50	500 Δ	16.3 Δ	12.1	-96	88	74	474	2BH1900-6AC15
	60	575 Δ	15.7 Δ	14.8	-100	92	79		
2	50	500 Δ	22.8 Δ	17.8	-96	108	74	500	2BH1900-6AC35
	60	575 Δ	22.8 Δ	21.5	-100	104	79		

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	72 Hz	60 Hz	2BH1900-6. □ . □	
					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				•	•	H 7
		500 V Y	575 V Y	400 V Δ	•	•	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

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Your Ultimate Source for Vacuum and Pressure

**Gardner Denver Deutschland GmbH**

Industriestraße 26  
97616 Bad Neustadt - Germany  
Tel.: +49 9771 6888-0  
Fax: +49 9771 6888-4000

www.gd-elmorietschle.com • er.de@gardnerdenver.com

**Gardner Denver, Inc.**

1800 Gardner Expressway  
Quincy, IL 62305  
Tel: 217-222-5400  
Fax: 217-221-8780