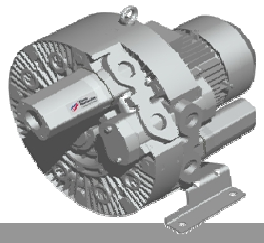
Elmo Rietschle
A Gardner Denver Product

G-BH7

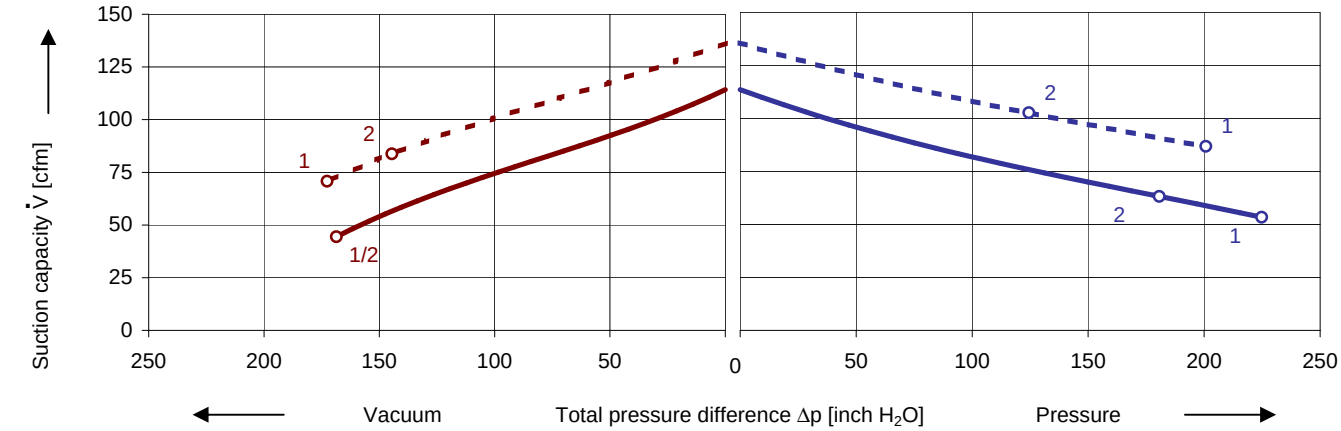
Data sheet 2BH7 620-0N

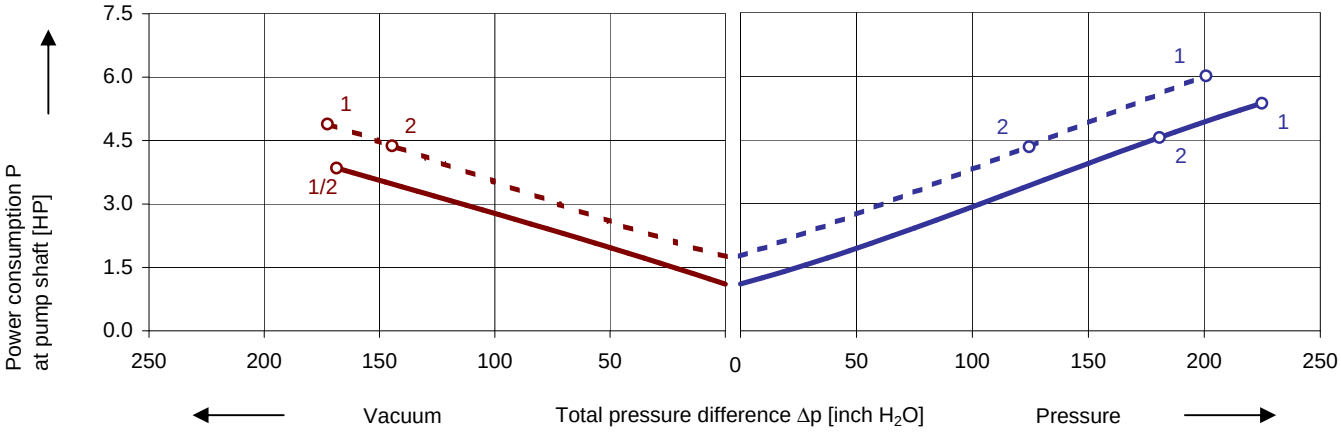
Side channel blower in ATEX configuration

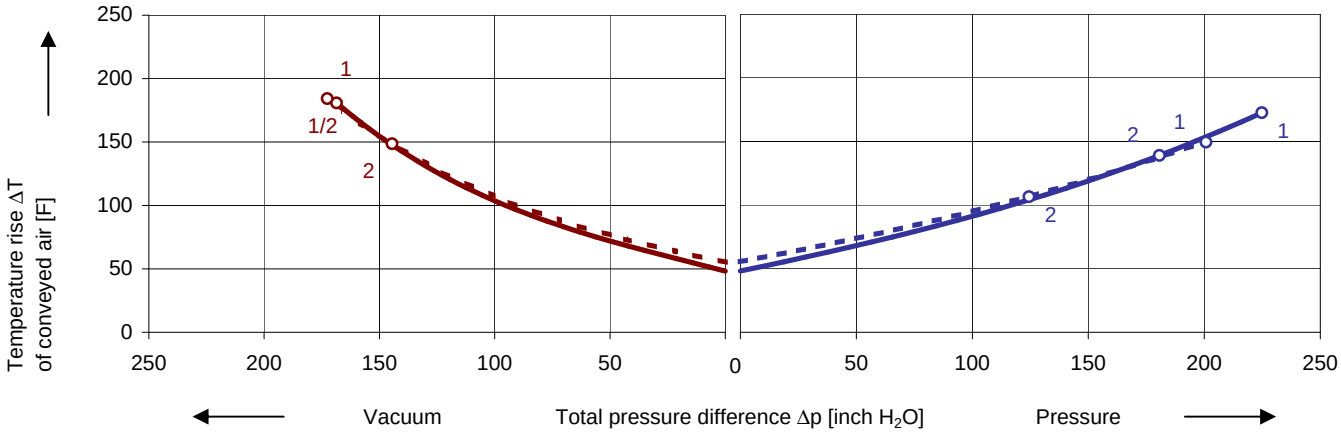


Performance curves

Vacuum operation (acfm) | **Pressure operation (scfm)**







The performance curves are based on air at a temperature of 59 F and an atmospheric pressure of 29.91 inch Hg with a tolerance of ± 10 %. The total pressure differences are valid for inlet and ambient temperature up to 77 F. Suction capacity relates to inlet conditions. Pressure capacity relates to atmospheric conditions. For other conditions please get in touch with us.

Every G-BH pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. Blowers with ATEX 94/9 EG are available for categories 3D, 3G and 3/2D as fixed voltage machines for 50 and 60 Hz. For category 3/2G 50 Hz or 60 Hz versions only are available.

Selection and ordering data

Type 2BH7 620-0N

No.	Frequency	Rated			Max. differential pressure		Sound pressure level [1]	Weight Approx.	Degree of protection	ATEX category	Order No.
		Voltage 1)	Current	Power	Vacuum	Pressure					
	Hz	V	A	HP	inch H_2O		dB(A)	ibs			
3~ 50/60 Hz, Insulation material class F, Temperature class T3											**3D, 3G, 3/2D**
1	50	400 Δ / 690 Y	7.8 Δ / 4.5 Y	5.4	-150	330			IP65	**3/2D** [2]	**2BH7620-0ND46-8-Z Z=M34**
	60	460 Δ	7.6 Δ	6.2	-255	295			IP55	**3D** [2]	**2BH7620-0ND46-8-Z Z=M35**
									IP55	**3G** [2]	**2BH7620-0ND46-8-Z Z=M72**
3~ 50 Hz oder 3~ 60 Hz, Insulation material class F, Temperature class T3											**3/2G**
2	50	400 Δ / 690 Y	6.7 Δ / 3.9 Y	4.4	-250	265			IP55	**3/2G** [2]	**2BH7620-0ND46-8-Z Z=M71**
	60	460 Y	5.8 Y	4.4	-210	185			IP55	**3/2G** [2]	**2BH7620-0NG41-8-Z Z=M71**

1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 460 V.

2) Measuring surface sound pressure level acc. 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).

3) The abbreviations „D“ and „G“ used include the subcategories (i) for „inside“ and (o) for „outside“. Examples:
3D includes 3D(i) and 3D(o),
3/2D includes 3D(i) and 2D(o),
3/2G includes 3G(i) and 2G(o)

All G-BH fulfil 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.
The voltage terance is +/-10%. The frequency tolerance is +/- 2 % maximum.

Other voltages

ATEX Category	50 Hz	60 Hz	2BH7…-0. □ . □ -Z			Z=
3~						
3/2D, 3D, 3G	230 V Δ / 400 V Y	460 V Y		**D**	**1**	**M34, M35, M72**
	400 V Δ / 690 V Y	460 V Δ		**D**	**6**	
	500 V Δ	575 V Δ		**D**	**5**	
3/2G	230 V Δ / 400 V Y	-		**D**	**1**	**M71**
	400 V Δ / 690 V Y	-		**D**	**6**	
	500 V Δ	-		**D**	**5**	
	-	460 V Y		**G**	**1**	
	-	460 V Δ		**G**	**6**	
	-	575 V Δ		**G**	**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 Denver

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