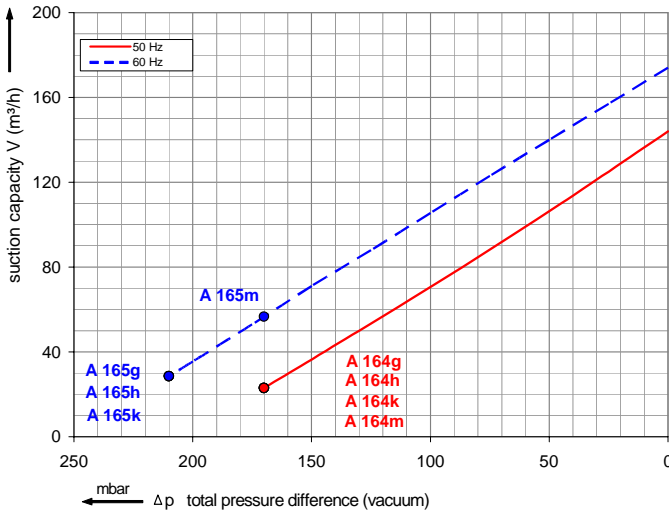


G-BH1

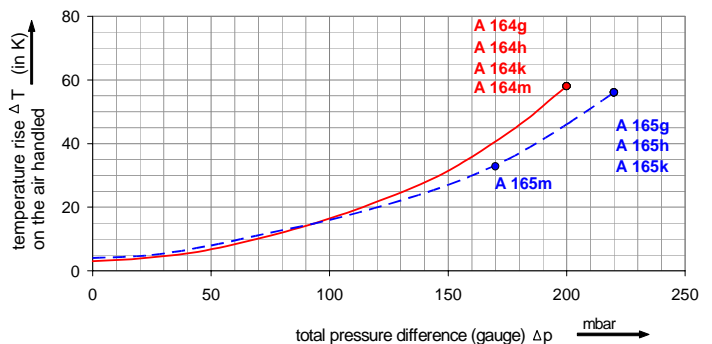
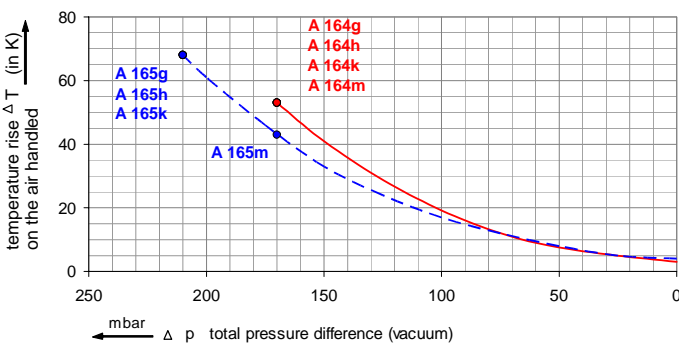
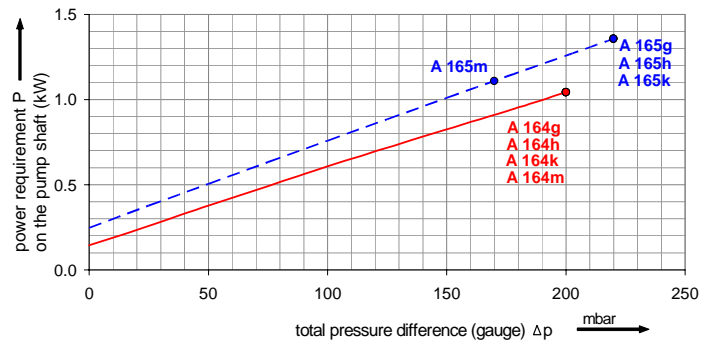
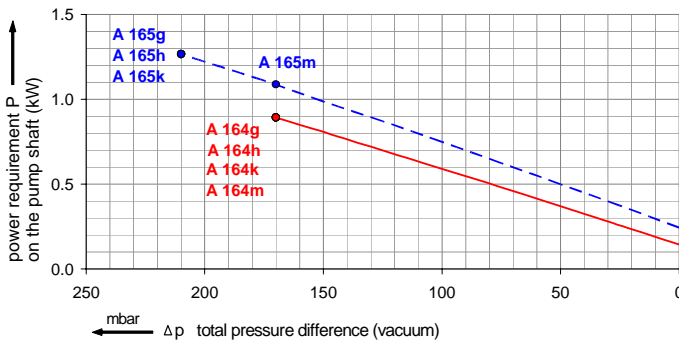
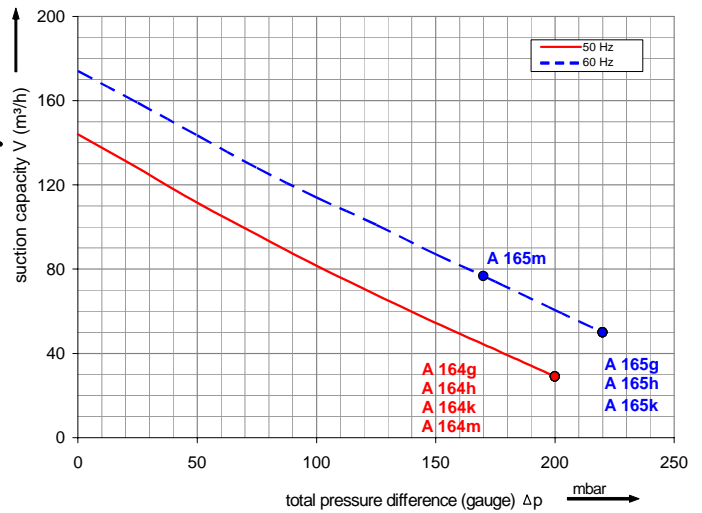
Performance curve for Vacuum pump



2BH1 400

ATEX - Version

Performance curve for Compressor



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of +/- 10 %.
The total pressure differences are valid for suction and ambient temperatures up to 25 °C.
For other conditions please confer with us.

Each G-BH1 type can be applied both as vacuum pump and compressor in continuous operation over the total stated performance curve range. Blowers with ATEX 94/9 EG are available for the category 3D, 3G, 3/2D as well as 3/2G. The motors are available as standard for the input voltage of 50 and 60 Hz and for protection category IP 55 (IP 65 for category 3/2D). For the category 3/2G blowers are only available with the input voltage 50 and 60 Hz, respectively.

Selection and ordering data

Type 2BH1 400

Curve No.	Order No.	Frequency	Rated power	Input voltage	Input current	Permissible total differential pressure ²⁾		Sound pressure level ³⁾	Weight ca.
						Vacuum mbar	Compressor mbar		
		Hz	kW	V	A			dB(A)	kg

ATEX-Category: 3D (Order-Option M35)

3- 50/60 Hz, IP55, insulation material class F, temperature class T3

A 164g	2BH1400-7AD21-Z	50	1.1	230D	400Y	4.2 D	2.4Y	-170	200	63	16
A 165g	2BH1400-7AD21-Z	60	1.3		460Y		2.4Y	-210	220	64	16

ATEX-Category: 3G (Order-Option: M72)

3- 50/60 Hz, IP55, insulation material class F, temperature class T3

A 164h	2BH1400-7AD21-Z	50	1.1	230D	400Y	4.2 D	2.4Y	-170	200	63	16
A 165h	2BH1400-7AD21-Z	60	1.3		460Y		2.4Y	-210	220	64	16

ATEX-Category: 3/2D (Order-Option: M34)

3- 50/60 Hz, IP65, insulation material class F, temperature class T3

A 164k	2BH1400-7AD21-Z	50	1.1	230D	400Y	4.2 D	2.4Y	-170	200	63	16
A 165k	2BH1400-7AD21-Z	60	1.3		460Y		2.4Y	-210	220	64	16

ATEX-Category: 3/2G (Order-Option: M71)

3- 50 Hz, IP55, insulation material class F, temperature class T3

A 164m	2BH1400-7AD21-Z	50	1.1	230D	400Y	4.33D	2.5Y	-170	200	63	16
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3- 60 Hz, IP55, insulation material class F, temperature class T3

A 165m	2BH1400-7AG21-Z	60	1.1		460Y		2.3Y	-170	170	64	16
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Other voltage ranges

2BH1400-7A □ . □ -Z

50Hz 60Hz



3- ATEX

Category 3D, 3G and 3/2D

230 V D / 400 V Y	460 V Y	D 1
500 V D	575 V D	D 5
400 V D / 690 V Y	460 V D	D 6

Category 3/2G

230 V D / 400 V Y	---	D 1
500 V D	---	D 5
400 V D / 690 V Y	---	D 6
---	460 V Y	G 1
---	575 V D	G 5
---	460 V D	G 6

Further voltage range on request; please quote in plain text.

All G-BH1 achieve the standards and norms of the low voltage directive 72/23/EWG, rotating electrotechnical motor EN 60034-1-34, electromagnetic compatibility (EMC) DIN EN 61000-3-6/-4.

- ²⁾ Relief-valve are available for limiting differential pressure.
³⁾ Measuring-surface sound-pressure level acc. to DIN EN 21680, measured at a distance of 1 m. The pump is throttled to an average suction pressure, a hose is connected to the discharge side (vacuum pump) / suction side (compressor), but is not fitted with relief valves.

The motors are designed according to the DIN EN 60 034 / DIN IEC 34-1 and temperature class F.

For the three phase machines the tolerances are +/- 10 % for fixed voltage. The frequency tolerance is maximum +/- 2 %.

Changes in particular the quoted performance curve, datas and weights without prior notice. The figures are without obligations.

**Gardner
Denver**

Elmo Rietschle is a brand of the
Gardner Denver Blower Division

info@de.gardnerdenver.com
www.gd-elmorietschle.com

Gardner Denver Schopfheim GmbH

Roggenbachstr. 58
79650 Schopfheim · Germany
Tel. +49 7622 392-0
Fax +49 7622 392-300

Gardner Denver Deutschland GmbH

Industriestr. 26
97616 Bad Neustadt · Germany
Tel. +49 9771 6888-0
Fax +49 9771 6888-4000