

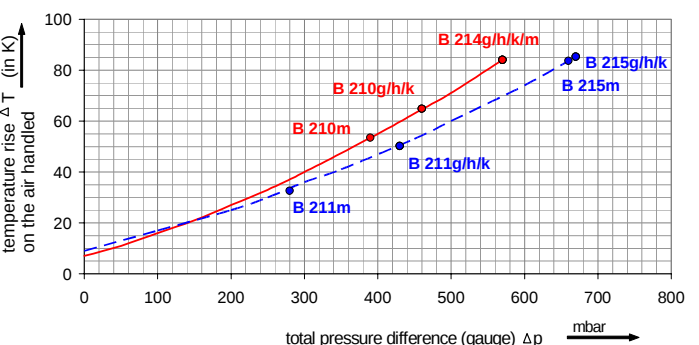
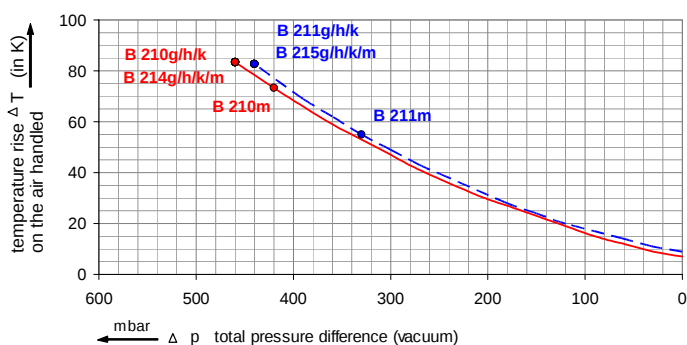
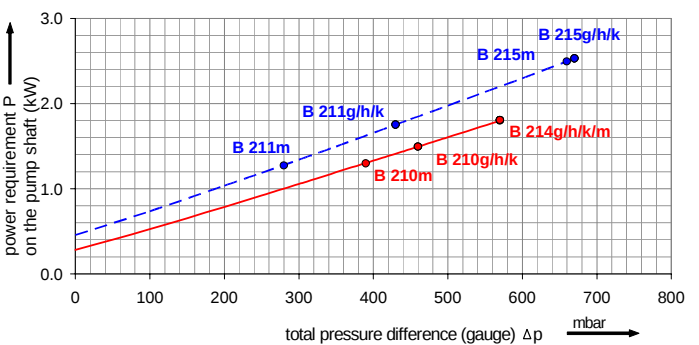
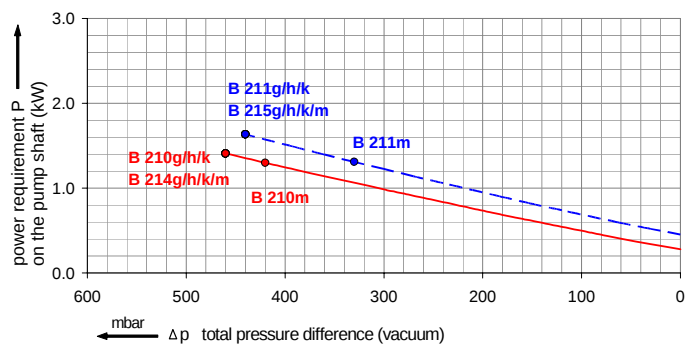
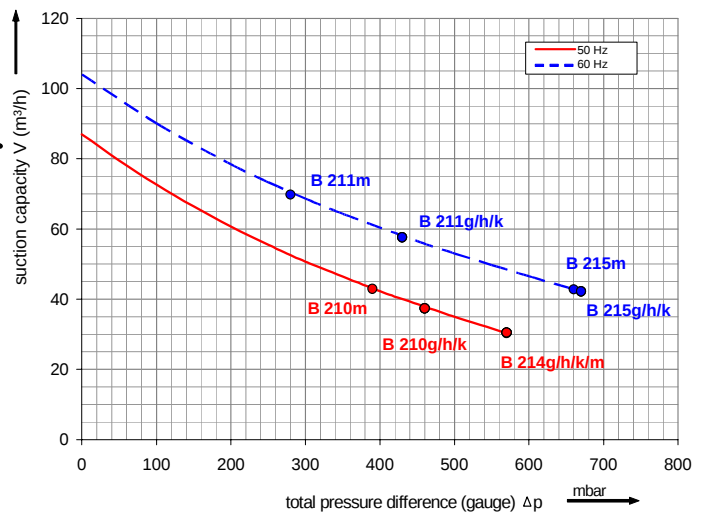
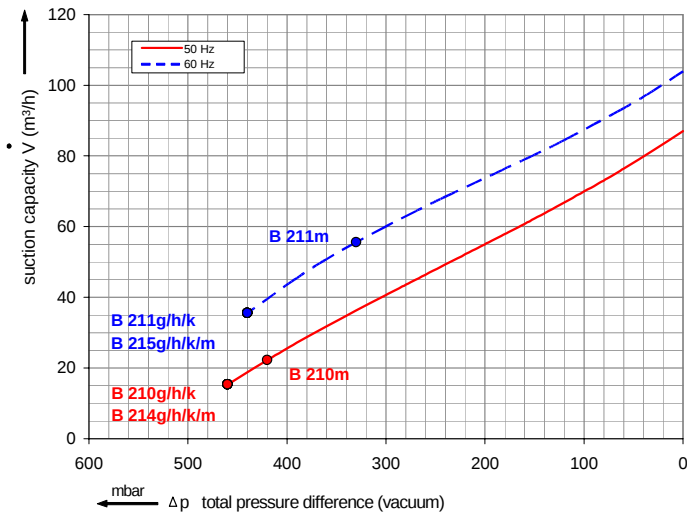
G-BH7

Performance curve for Vacuum pump

2BH7 420

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-BH7 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 are only available blowers with the input voltage 50 and 60 Hz, respectively.

Selection and ordering data

Type 2BH7 420

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

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

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

B 210g	2BH7420-0AD21-7-Z	50	1.5	230D	400Y	5.65D	3.25Y	-460	460	61	33
B 211g	2BH7420-0AD21-7-Z	60	1.75		460Y		3.2 Y	-440	430	66	33
B 214g	2BH7420-0AD61-7-Z	50	3.0	230D	400Y	10.61D	6.1 Y	-460	570	61	43
B 215g	2BH7420-0AD61-7-Z	60	3.45		460Y		5.9 Y	-440	670	66	43

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

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

B 210h	2BH7420-0AD21-7-Z	50	1.5	230D	400Y	5.65D	3.25Y	-460	460	61	33
B 211h	2BH7420-0AD21-7-Z	60	1.75		460Y		3.2 Y	-440	430	66	33
B 214h	2BH7420-0AD61-7-Z	50	3.0	230D	400Y	10.61D	6.1 Y	-460	570	61	43
B 215h	2BH7420-0AD61-7-Z	60	3.45		460Y		5.9 Y	-440	670	66	43

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

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

B 210k	2BH7420-0AD21-7-Z	50	1.5	230D	400Y	5.65D	3.25Y	-460	460	61	33
B 211k	2BH7420-0AD21-7-Z	60	1.75		460Y		3.2 Y	-440	430	66	33
B 214k	2BH7420-0AD61-7-Z	50	3.0	230D	400Y	10.61D	6.1 Y	-460	570	61	43
B 215k	2BH7420-0AD61-7-Z	60	3.45		460Y		5.9 Y	-440	670	66	43

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

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

B 210m	2BH7420-0AD21-7-Z	50	1.3	230D	400Y	5.0 D	2.9 Y	-420	390	61	33
B 214m	2BH7420-0AD61-7-Z	50	2.5	230D	400Y	9.2 D	5.3 Y	-460	570	61	42

3~ 60 Hz, IP55, insulation material class F, temperature class T3

B 211m	2BH7420-0AG21-7-Z	60	1.3		460Y		2.64Y	-330	280	66	33
B 215m	2BH7420-0AG61-7-Z	60	2.5		460Y		4.8 Y	-440	660	66	42



Other voltage ranges

2BH7420-0A □ . □ -Z

50Hz	60Hz	↑ ↑
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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-BH7 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.

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