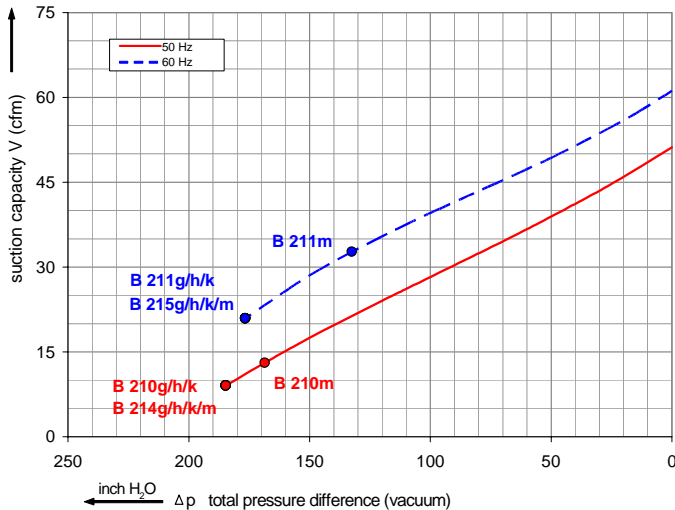


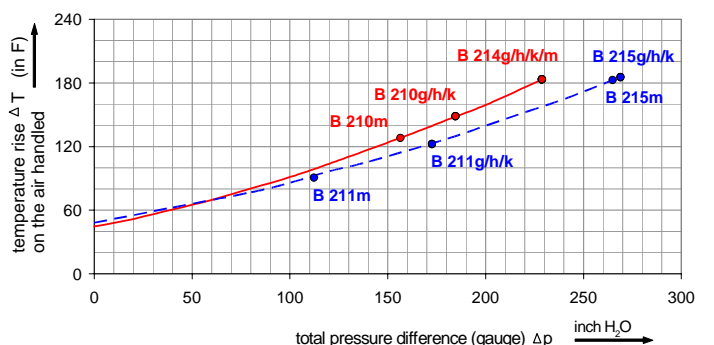
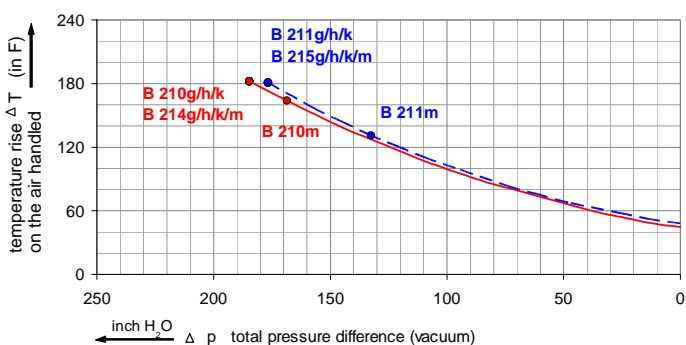
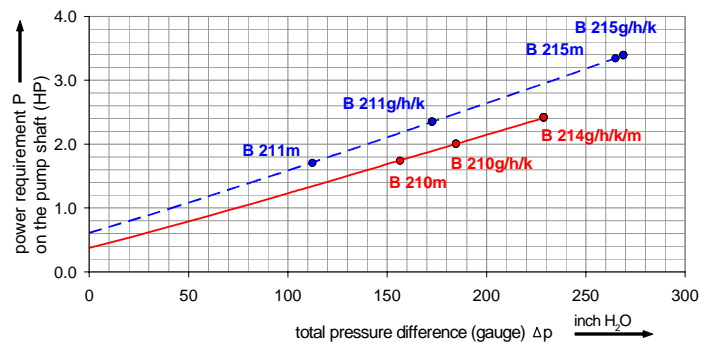
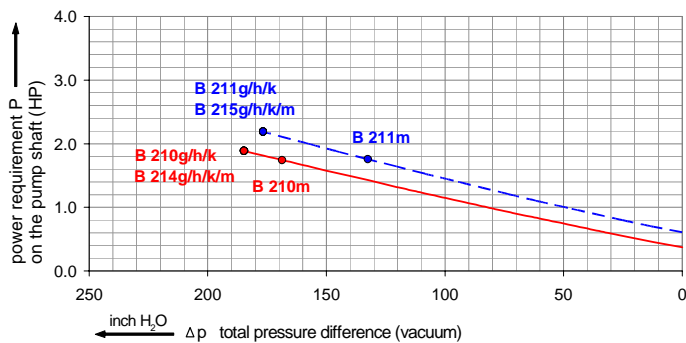
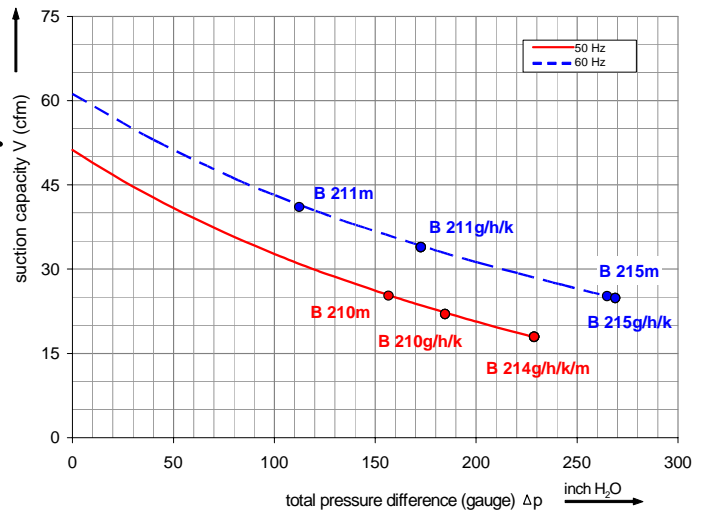
G-BH7

Performance curve for Vacuum pump



2BH7 420 ATEX - Version

Performance curve for Compressor



The performance curves are based on air at a temperature of 59 F and an atmospheric pressure of 401.53 inch H₂O with a tolerance of +/- 10 %. The total pressure differences are valid for suction and ambient temperatures up to 77 F. 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.	Frequency	Rated power	Input voltage	Input current	Permissible total differential pressure ²⁾		Sound pressure level ³⁾	Weight ca.
						Vacuum inch H2O	Compressor inch H2O		
		Hz	HP	V	A			dB(A)	lbs

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	2.0	230D	400Y	5.65D	3.25Y	-185	185	61	73
B 211g	2BH7420-0AD21-7-Z	60	2.35		460Y		3.2 Y	-177	173	66	73
B 214g	2BH7420-0AD61-7-Z	50	4.02	230D	400Y	10.61D	6.1 Y	-185	229	61	95
B 215g	2BH7420-0AD61-7-Z	60	4.62		460Y		5.9 Y	-177	269	66	95

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	2.0	230D	400Y	5.65D	3.25Y	-185	185	61	73
B 211h	2BH7420-0AD21-7-Z	60	2.35		460Y		3.2 Y	-177	173	66	73
B 214h	2BH7420-0AD61-7-Z	50	4.02	230D	400Y	10.61D	6.1 Y	-185	229	61	95
B 215h	2BH7420-0AD61-7-Z	60	4.62		460Y		5.9 Y	-177	269	66	95

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	2.0	230D	400Y	5.65D	3.25Y	-185	185	61	73
B 211k	2BH7420-0AD21-7-Z	60	2.35		460Y		3.2 Y	-177	173	66	73
B 214k	2BH7420-0AD61-7-Z	50	4.02	230D	400Y	10.61D	6.1 Y	-185	229	61	95
B 215k	2BH7420-0AD61-7-Z	60	4.62		460Y		5.9 Y	-177	269	66	95

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	1.74	230D	400Y	5.0 D	2.9 Y	-169	157	61	73
B 214m	2BH7420-0AD61-7-Z	50	3.35	230D	400Y	9.2 D	5.3 Y	-185	229	61	93

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

B 211m	2BH7420-0AG21-7-Z	60	1.74		460Y		2.64Y	-132	112	66	73
B 215m	2BH7420-0AG61-7-Z	60	3.35		460Y		4.8 Y	-177	265	66	93



Other voltage ranges

2BH7420-0A . -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-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 3.28 ft. 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

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