

Panda

Vacuum Boosters
WV 1200–2400 A



- › **Efficient:**
minimized operating costs
- › **Reliable:**
robust construction made of GGG40 material, standard mechanical shaft seals, reliable under varying operating conditions, solid lobe design for high particle tolerance, barrier gas connection
- › **High Performance:**
high pumping speed due to excellent volumetric efficiency, integrated bypass valve
- › **Easy Servicing:**
minimal maintenance

Due to their high pumping speed and ultimate pressure, Panda WV vacuum boosters increase the performance of vacuum pumps. Available in various sizes, Panda WV vacuum boosters can be designed to perfectly suit all rough and medium vacuum applications in which the performance of the backing pump needs to be significantly increased or optimally adapted to the process. The Panda WV 1200–2400 A feature our latest improved design in GGG40 and are optimized for use in a wide range of applications including ATEX and chemical processes.

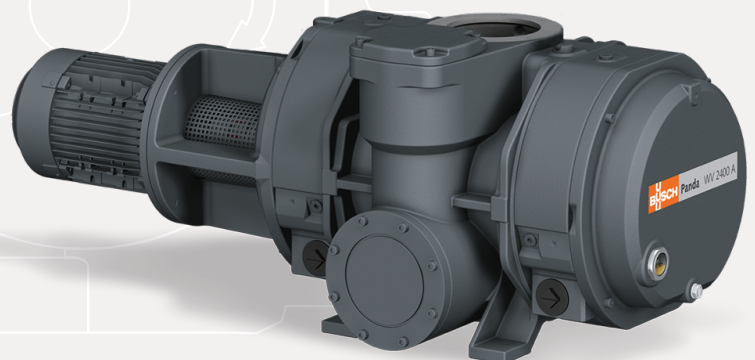
Panda WV are the perfect vacuum boosters for all types of backing pumps. When using a combination of backing pump and vacuum booster, the pumping speed and ultimate pressure of a vacuum system can be increased by up to a factor of 10. As a result, these combinations can generate a suction

performance which would otherwise only be possible with a large number of backing pumps.

Thanks to the integrated bypass valve, Panda WV vacuum boosters achieve a high pumping speed even in rough vacuum applications. It reliably protects against overloading and allows the Panda WV to be switched on together with the backing pump even at atmospheric pressure without further action. A process-related, sudden pressure increase due to a higher gas flow can be easily handled by the bypass valve in continuous operation.

Panda WV vacuum boosters can be flanged directly onto the backing pump or at any other position on the system thanks to our large and specially designed portfolio of adapters.

**Panda – the economical
performance optimizer.**



Panda WV 2400 A

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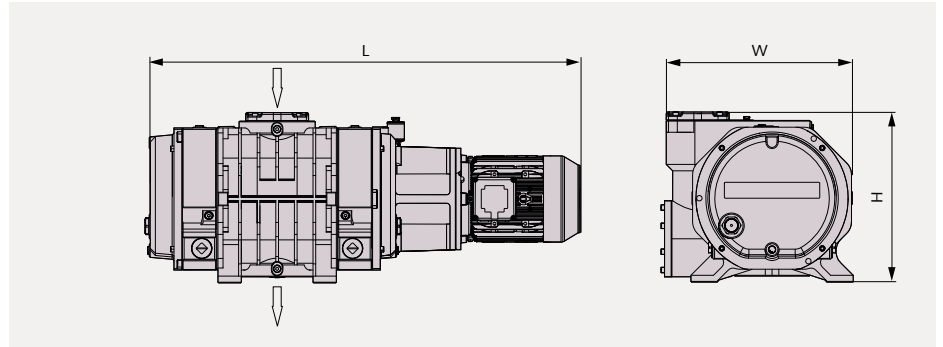
Vacuum Boosters WV 1200–2400 A



Technical specifications

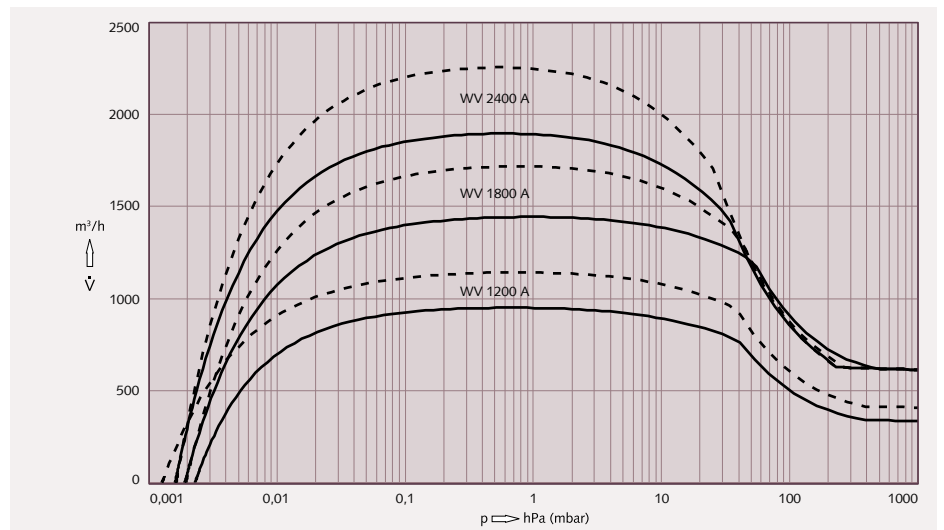
Within the housing of Panda WV vacuum boosters, two lobes rotate synchronously. Due to the special profile of the lobes and their precise manufacturing, they do not come in contact with each other or the housing. Thus, no lubricants or operating fluids are required in the process chamber. The two lobes are driven by a pair of gear wheels separated from the process chamber. The integrated bypass valve, which comes as standard, enables an operation around atmospheric pressure or at rough vacuum without the need for a special controller. Busch vacuum boosters are driven by a directly coupled electric motor of efficiency class IE3, for electrical network worldwide.

Panda WV 1200–2400 A



Pumping speed

Air at 20 °C. Tolerance: ± 10% — 50 Hz - - - - 60 Hz



Technical data			WV 1200 A	WV 1800 A	WV 2400 A
Nominal pumping speed	50 Hz / 60 Hz	m ³ /h	1050 / 1260	1600 / 1920	2120 / 2540
Pumping speed	50 Hz / 60 Hz	m ³ /h	950 / 1141*	1443 / 1718**	1920 / 2290**
Max. pressure differential	50 Hz / 60 Hz	hPa (mbar)	53	53	53 (70***)
Nominal motor rating	50 Hz / 60 Hz	kW	3.5 / 4.8	4.3 / 5.2	6.0 / 7.6
Nominal motor speed	50 Hz / 60 Hz	min ⁻¹	3000 / 3600	3000 / 3600	3000 / 3600
Weight approx.		kg	290	300	520
Dimensions (L x W x H)		mm	1094 x 470 x 353	1114 x 470 x 398	1286 x 568 x 503
Gas inlet / outlet (vertical)			DN 160 ISO / DN 100 ISO	DN 160 ISO / DN 100 ISO	DN 160 ISO / DN 160 ISO
Gas inlet / outlet (lateral)			DN 160 ISO / DN 100 ISO	DN 160 ISO / DN 100 ISO	DN 160 ISO / DN 160 ISO

*with COBRA NC 0400 as backing pump **with COBRA NC 0630 as backing pump ***option available after process evaluation

www.buschvacuum.com

Argentina Australia Austria Bangladesh Belgium Brazil Canada Chile China Colombia Czech Republic Denmark Finland France Germany Hungary India Ireland Israel Italy Japan Korea Malaysia Mexico Netherlands New Zealand Norway Peru Poland Portugal Romania Russia Singapore South Africa Spain Sweden Switzerland Taiwan Thailand Turkey United Arab Emirates United Kingdom USA

Technical data is subject to change. Created in Germany. MG PL PANDAVV12002400A Len 02/2019 9Ba