

# Panda

Vacuum Boosters  
WV 1500–4500 B/C



- › **Efficient:**  
cost-effective, minimized operating costs
- › **Reliable:**  
robust construction, reliable under varying operating conditions, solid lobe design for high particle tolerance
- › **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 systems. Available in six different sizes, Panda WV vacuum boosters can be designed to perfectly suit all low 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 1500–4500 B/C are the three larger vacuum boosters in this series.

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 pump 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 pump and motor 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 greater 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 due to our large and specially designed portfolio of adapters.

**Panda – the economical performance optimizer.**



Panda WV 4500 B

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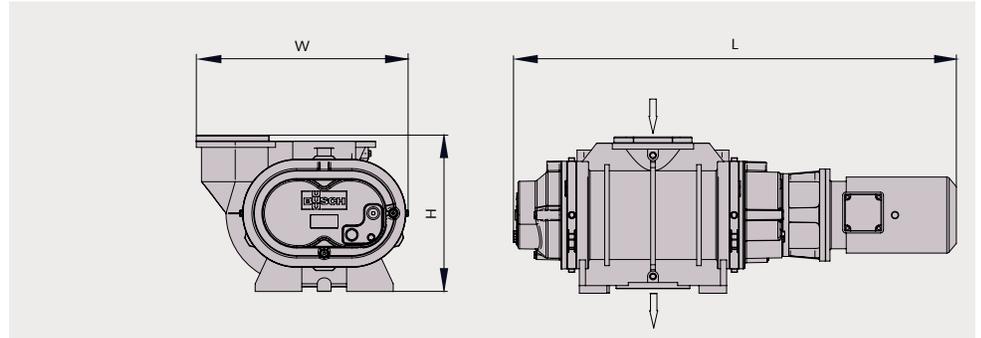
## Vacuum Boosters WV 1500-4500 B/C



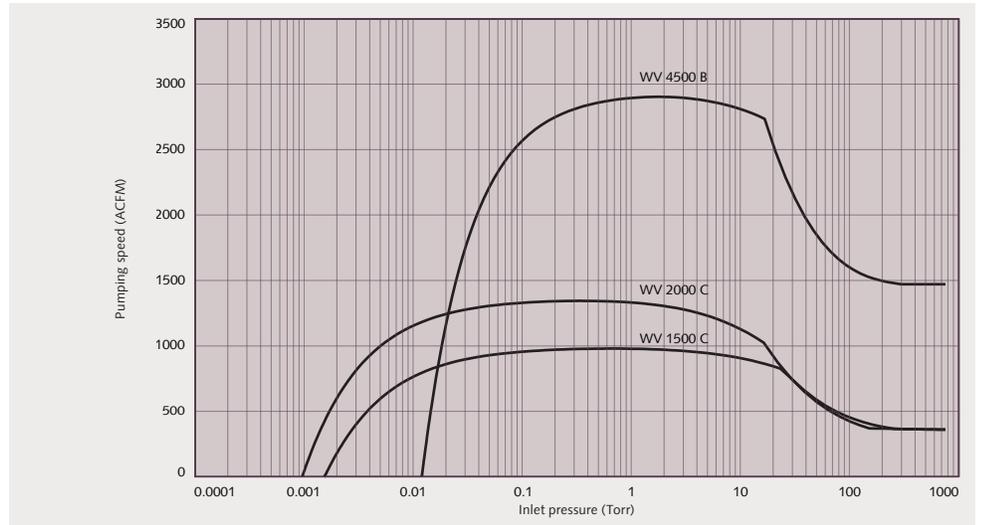
### Technical specifications

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 into contact with each other or the housing. Thus, no lubricants or operating fluids are required in the compression chamber. The synchronous rotation of the two lobes is 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 low vacuum without the need for a special controller. Busch vacuum boosters are driven by a directly coupled electric motor of efficiency class IE3.

### Panda WV 1500-4500 B/C



### Pumping speed Air at 70 °F. Tolerance: ± 10%



Technical Data		WV 1500 C	WV 2000 C	WV 4500 B
Nominal displacement	ACFM	1060	1415	3180
Max. pumping speed	ACFM	985*	1350*	2915**
Maximum pressure differential	Torr	32	32	18.75
Nominal motor rating	HP (kW)	7.5 (5.2)	10 (7.6)	15 (12.6)
Nominal motor speed	RPM	3600	3600	3600
Approximate weight	Lbs.	660	1320	1540
Dimensions (L x W x H)	inches	46 x 20 1/4 x 21 1/8	54 x 22 1/4 x 25	56 7/8 x 27 1/4 x 20
Gas inlet / outlet		ANSI 4" / ANSI 4"	ANSI 6" / ANSI 4"	DN 250 ISO-F / DN 160 ISO-F

All performance data is based on ambient conditions of 14.7 PSIA and 70 °F, and has a tolerance of ± 10%.  
\*With COBRA NC 0630 as backing pump \*\*With COBRA NC 2500 as backing pump

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Technical data is subject to change. Created in Germany. MG PL PANDAWV15004500BC USenus 12/2016 6.0