

G_400 – Unsurpassed at highest pressure differences

gas ring vacuum pumps and compressors

Our new G_400 family is the product of systematic research and the further development of our G_Series. These revolutionary machines operate at pressure differences of up to 1,000 m³/h (400 inches of H₂O) – a level never before achieved by gas ring pumps. This means you can benefit from wear-free operation and low noise emission in applications where the required pressure difference once called for much larger and louder systems, or systems subject to extreme wear.

High performance, even under the harshest conditions


Our G_400 pumps and compressors easily provide 20,000 maintenance-free operating hours. Whether at high or low temperatures, in the tropics or on the high seas, these specialists are reliable and durable, even in continuous duty.

Comfortably quiet for better working conditions

Meeting the highest requirements in the most diverse application areas is a nash_elmo obligation. The designers and engineers in our laboratories are constantly striving to perfect performance and technology, with particular emphasis on your personnel's subjective experience of noise levels. Consequently, we have significantly reduced the tonal peaks typical of turbomachines. G_400 blowers are comfortably quiet in operation.

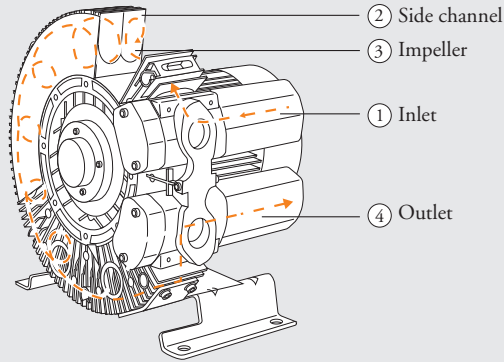
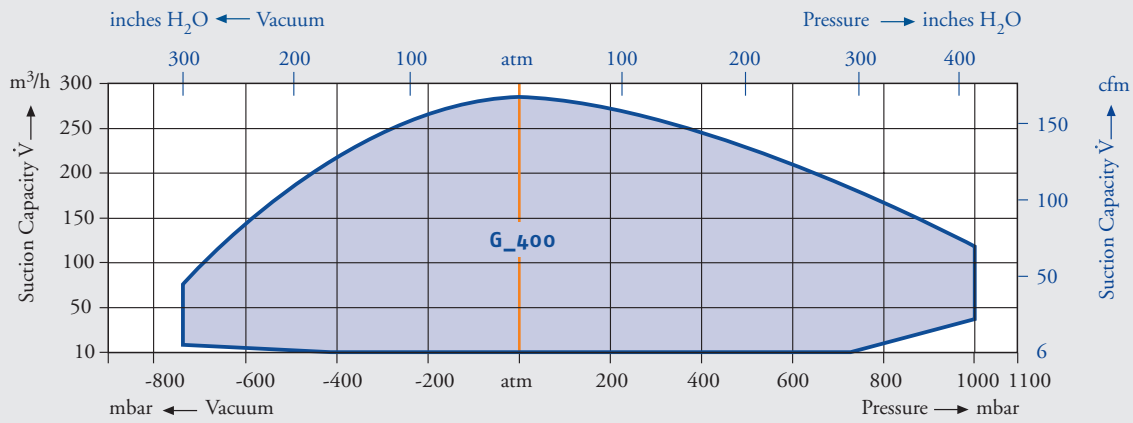


Advantages at a glance

- Significantly reduced low noise level
- Robust and durable
- Variable performance range
- High pressure ratio
- For worldwide use, available ex stock, UL- and CSA-certified 
- ATEX 94/9 EC
- Installable in any axial orientation

Main applications

- Printing and paper processing industry
- Plastics industry
- Packaging industry
- Environmental engineering
- Water treatment
- Pneumatic conveying systems
- General mechanical engineering
- ... and many more



Functional diagram

The gas is taken in through the inlet silencer ①. As it enters the side channel ②, the rotating impeller ③ imparts velocity to the gas in a spiral motion in the direction of rotation. Centrifugal force in the impeller blades accelerate the gas radially outward, pressure increases and the gas is returned to the impeller via the inner wall of the side channel. Every time the gas re-enters the impeller, kinetic energy is added, along the side channel, in the radial direction. The side channel narrows at the rotor where the gas is swept off the impeller blades and discharged through the outlet silencer ④ where it exits the pump.

Variable power range

With a frequency converter installed directly on the motor or in a control cabinet, the same size machine can generate a lot more power while saving energy. This is thanks to precise control systems that always provide you with the exact amount of power needed in the process, thereby avoiding excess capacities. The result is a sustained reduction in operating costs for your system.

Customized installation

G_400 pumps and compressors can be installed in any axial orientation without any restrictions. They are easy and economical to install and connect.

Available ex stock for use anywhere in the world

G_400 machines are equipped with voltage range motors for 50 and 60 Hz in protection class IP55 (temperature class F) and are certified to UL 507 and CSA 22.2 No. 113. This means they can be used anywhere in the world, whether in Europe, Asia or America. Best of all, G_400 pumps and compressors are available at very short notice, including ATEX-certified models.

Environmentally friendly and inexpensive to operate

Our production process is certified to DIN EN ISO 14001. To save resources throughout their service life, G_400 pumps and compressors operate without auxiliary materials and are extremely efficient, not only protecting the environment but also reducing your costs.

Global quality management

Certified to DIN EN ISO 9001:2000, nash_elmo always puts quality and customer satisfaction first. From the initial design phase through development, production, order processing, logistics and customer support, we always give you the best.

We also design and develop solutions tailored to your individual needs. Let us know.

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