

# Torri

## Multi-Stage Rotary Lobe Vacuum Pump BD 0100 A



- › **Flexible:**  
shortest pump-down time  
for load lock chambers
- › **Efficient:**  
extremely low energy consumption,  
minimal maintenance, high uptime
- › **Compact:**  
extremely small and light-weight

Torri BD 0100 A is one of the smallest, lightest and most energy-efficient dry multi-stage rotary lobe vacuum pumps in the market, making it the ideal solution for pump-down of load lock chambers. With its proven operating principle it achieves low ultimate pressure, and its best-in-class chamber pump-down time reduces total average cycle times.

The directly coupled canned motor makes the dimensions of Torri BD 0100 A extremely compact. Due to its low vibration and noise levels together with light-weight and small size, the Torri vacuum pump can be mounted inside almost every machine in all working environments which helps to save precious fab space. Retrofitting this multi-stage vacuum pump to existing systems can be

performed quickly and easily thanks to its fit-in-place design with vertical inlet.

The dry, contact-free operating principle assures minimal maintenance and a long service life. All these factors lead to a very high uptime, reduced operating costs and low total cost of ownership.

An optional LCD controller allows easy monitoring of the pump status and displays all relevant parameters like motor temperature, motor current, cooling water flow and pump body temperature. The fully open communication protocol (Modbus RTU) can easily be adapted to a specific network protocol using standard interface components.

**Torri – the compact and energy-efficient solution for load lock chambers.**



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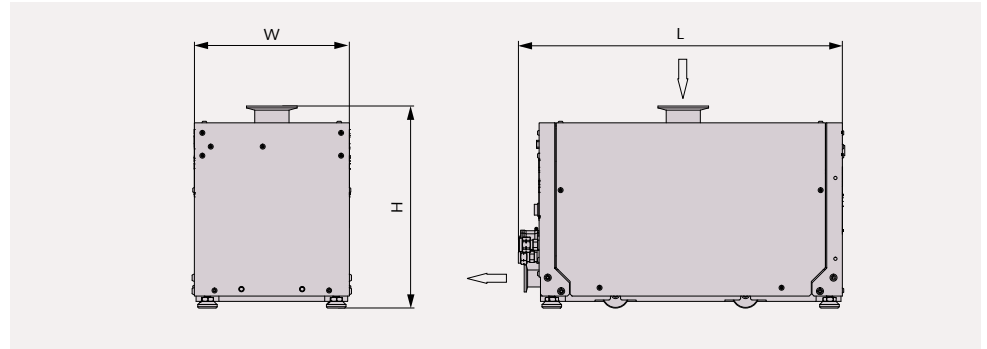
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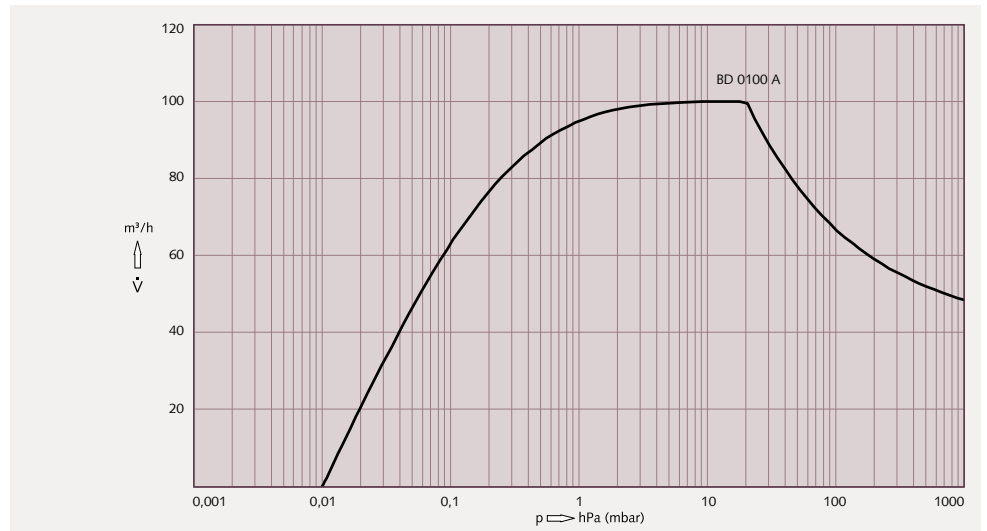
### Technical specifications

The Torri BD vacuum pump operates according to the proven rotary lobe principle. The rotation of the lobes traps the pumped medium, transports it from stage to stage and finally to the outlet. Due to the special profile of the lobes and their precise manufacturing, they do not come into contact with each other or the housing. In addition, no lubricants or operating fluids are required in the compression chamber. The lobes are driven by a directly coupled synchronous water-cooled electric motor.

Torri BD 0100 A



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



Technical data		BD 0100 A
Nominal pumping speed	m³/h	100
Ultimate pressure	hPa (mbar)	0.01
Nominal motor rating	kW	2.2
Power consumption at ultimate pressure	kW	0.4
Nominal motor speed	min <sup>-1</sup>	5500
Sound level (ISO 2151)	dB(A)	< 60
Water consumption	l/min	min. 1.0
Approximate weight	kg	60
Dimensions (L x W x H)	mm	450 x 230 x 275
Gas inlet / outlet		DN 50 KF / DN 25 KF

All performance data is based on ambient conditions of 14.7 PSIA and 70 °F, and has a tolerance of ± 10%.

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Technical data is subject to change. Created in Germany. MG PL TORRID0100A USenus 06/2019 9Aa