

# blueone 2



- **Advanced Screw Design:**  
bell shaped construction,  
patented self-balancing screws
- **Compact Design:**  
integrated control panel
- **Efficient:**  
low cost of ownership,  
minimal maintenance,  
high uptime
- **Reliable:**  
operationally reliable
- **Flexible:**  
application-oriented
- **Quiet:**  
noise level < 58 dB(A)

The blueone 2 is a dry screw vacuum pump. State-of-the-art screw vacuum pump technology featuring a specially developed screw profile and the compact design make these vacuum pumps the ideal solution for tasks in load lock and transfer chambers, as well as in processes such as metrology, lithography, physical vapour deposition (PVD) and rapid thermal annealing (RTA).

Due to the sophisticated bell shaped cantilever construction, the twin rotor with variable pitch screws is mounted only on the motor side, while the unique "flying bearing" design makes inlet bearings unnecessary. As a result, the pumped medium does not come in contact with the bearings.

The patented self-balancing screw design and screw rotor mounted precisely at the centre of gravity ensure excellent running qualities and guarantee high uptime. A directly mounted canned motor together with the integrated control panel makes the dimensions of the blueone 2 extremely compact.

Retrofitting these screw vacuum pumps to existing systems can be performed quickly and easily due to a fit-in-place design with vertical inlet.

The fully open communication protocol (Modbus TCP-IP) allows control of all functionalities, including idle modes and variable speed drive. It can easily be adapted to a specific network protocol using standard interface components.

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Screw Vacuum Pump



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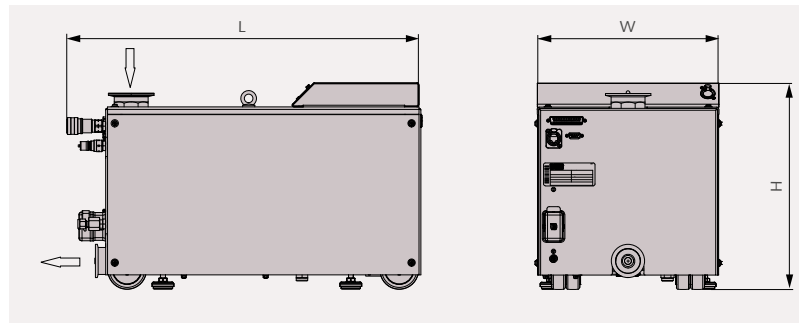


## Technical specifications

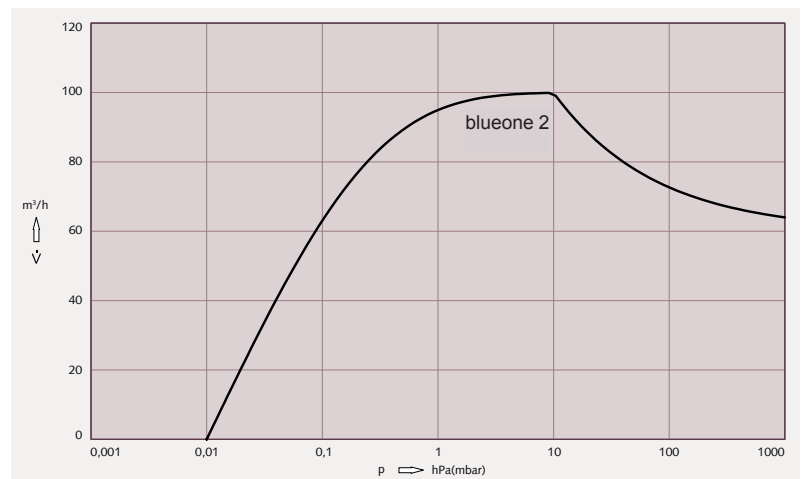
Two screw rotors inside the cylinder of the blueone 2 rotate in opposite directions. The pumped medium is trapped between the cylinder and screw chambers, compressed, and transported to the gas outlet. During the compression process the screw rotors do not come in contact with each other or the cylinder. Thus, no lubricants or operating fluids are required in the compression chamber. The advanced screw design results in lower electrical energy consumption and a lower compressed gas heat load compared to standard screw designs.

This mobilPlan vacuum pump use efficient direct water cooling resulting in an even teemperature distribution throughout the pump body, and guaranteeing thermal stability throughout the process.

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**Pumping speed** Air at 20°C. Tolerance: ± 10%



Technical data		blueone 2
Nominal pumping speed approx.	m³/h	100
Ultimate pressure	hPa (mbar)	0.01
Nominal motor rating	kW	1.5
Power consumption at ultimate pressure	kW	1.1
Nominal motor speed	min <sup>-1</sup>	3600
Noise level (ISO 2151)	dB(A)	58
Water consumption	l/min	1.0
Weight approx.	kg	115
Dimensions (L x W x H)	mm	520 x 300 x 340
Gas inlet / outlet		DN 50 KF / DN 40 KF