



MICRO VACUUM PUMP

For Vacuum Lifters & Handling Systems

BODENFLO Micro Vacuum Pump Overview

Compact size, Oil free, High flow, High vacuum, Low power

Market Background

Micro vacuum pumps are gaining popularity in vacuum lifters and handling systems due to their compact size, low power consumption, and high efficiency. They provide a reliable vacuum source for material handling in various industries, and the market for these pumps is growing due to the demand for efficient automation. Technological advancements and cost-effectiveness are also contributing to their adoption.

BD-03 Series and BD-04 series

The BD-03 series and BD-04 series micro pump is driven by a DC motor and consists of a diaphragm, motor, valve, and housing, making it a compact, durable and high-vacuum performance vacuum pump.



BD-03V



BD-03VB



BD-04V



BD-04VB

mm(inch)

Model	BD-03V	BD-03VB	BD-04V		BD-04VB	
Motor	Brush, 1000hours	Brushless, 5000hours	Brush, 1000hours	Brushless, 5000hours	Brush, 1000hours	Brushless, 5000hours
Voltage	6V/9V/12V/24V	6V/9V/12V/24V	6V/9V/12V/24V		6V/9V/12V/24V	
Current	0.6A (12V)	0.6 A (12V)	0.8A (12V)	1.2A (12V)	0.8A (12V)	1.2A (12V)
Power	7W	7W	10W	15W	10W	15W
Flow(@0kPa)	6L/min	6L/min	15L/min	20L/min	15L/min	20L/min
Max Vacuum	-70 kPa	-70 kPa	-80 kPa	-85 kPa	-80 kPa	-85 kPa
Inlet/outlet diameter	3.0/4.8mm	3.0/4.8mm	3.5/6.5mm		3.5/6.5mm	
Working temperature	5-40°C	5-40°C	5-40°C		5-40°C	
Package	180pcs/box	180pcs/box	60pcs/box		60pcs/box	

BD-07 Series

The BD-07 series micro pump is designed to be both compact and maintenance-free, offering exceptional high-vacuum and flow performance. Its key components, including a piston, cylinder, valves, and seals, work together to provide a smooth flow of vacuum or positive pressure.



BD-07V



BD-07VB



BD-07V-M



BD-07VB-M

mm(inch)

Model	BD-07V		BD-07VB		BD-07V-M		BD-07VB-M	
Motor	Brush, 1000hours		Brushless, 3000hours		Brush, 1000hours		Brushless, 3000hours	
Voltage	12V/24V		12V/24V		12V/24V		12V/24V	
Current	3A(12V)	4A(12V)	3A(12V)	4A(12V)	3A(12V)	4A(12V)	3A(12V)	4A(12V)
Power	36W	48W	36W	48W	36W	48W	36W	48W
Flow(@0kPa)	25L/min	32L/min	25L/min	32L/min	25L/min	35L/min	25L/min	35L/min
Max Vacuum	-85kPa	-85kPa	-85kPa	-85kPa	-85kPa	-85kPa	-85kPa	-85kPa
Inlet/outlet diameter	4.5/8.3mm				4.0/8.5mm			
Working temperature	5-40°C				5-50°C			
Package	36pcs/box				36pcs/box			

BD-07 Series new product



BD-079V-M

The BD-079 series miniature piston pump is a recommended choice for high flow and high vacuum applications due to its low cost, compact design, durability, and versatility. It can be easily integrated into different systems and machinery, and is a reliable solution for such applications.

Model	Motor	Voltage	Current	Power	Flow (@0kPa)	Max Vacuum	Inlet/outlet diameter	Working temperature	Package
BD-079V-M	Brush	24V (Option 12V)	4.5A	108W	40L/min	-85kPa	4.0/8.5mm	5-50°C	18pcs/box
			6.5A	156w	45L/min	-85kPa	4.0/8.5mm	5-50°C	18pcs/box

BD-08 Series

The BD-08 series mini pump/mini compressor is designed to provide reliable and efficient vacuum power in a compact and lightweight. Its unique patented technology and double-headed pneumatic construction enable it to deliver a high flow rate of compressed air or gas, making it ideal for a variety of applications, such as vacuum automation, robots, vacuum lifters and operating pneumatic systems.



BD-08V-S



BD-08V-D



BD-08VB-S



BD-08VB-D

mm(inch)

Model	BD-08V-S	BD-08V-D		BD-08VB-S	BD-08VB-D	
Motor	Brush, 1000hours	Brush, 1000hours		Brushless, 5000hours	Brushless, 5000hours	
Voltage	24V	24V		24V	24V	
Current	3A	5A		3A	4.5A	
Power	72W	120W		72W	108W	
Flow(@0kPa)	35L/min	35L/min (in series)	70L/min (in parallel)	35L/min	35L/min (in series)	70L/min (in parallel)
Max Vacuum	-85kPa	-95kPa	-85kPa	-85kPa	-95kPa	-85kPa
Inlet/outlet diameter	4.0/8.0mm	4.0/8.0mm		4.0/8.0mm	4.0/8.0mm	
Working temperature	0-55℃	0-55℃		0-55℃	0-55℃	
Package	18pcs/box	18pcs/box		25pcs/box	20pcs/box	

Vacuum lifters are essential in various industries for their ability to improve production efficiency and product quality. With a wide range of applications in industrial manufacturing, logistics, and warehousing, **vacuum suction cups lifters, robot vacuum suction cups, and glass vacuum lifters** are all common types of lifters. However, their efficiency depends largely on the core power source, and BODENFLO micro vacuum pumps stand out as the ideal power source for compact vacuum lifters. These small, oil-free pumps generate high vacuum and flow, making them the perfect choice for enhancing the capabilities of your vacuum lifter. **Don't hesitate to contact BODENFLO today to purchase the best micro vacuum pumps on the market and see the difference for yourself!**

Contact Your Micro Vacuum Pump Expert: info@bodenpump.com