

Diaphragm Pump

Model

DVC0301B-Y1
DVC0301B-Y2

DC-driven pump with flow control

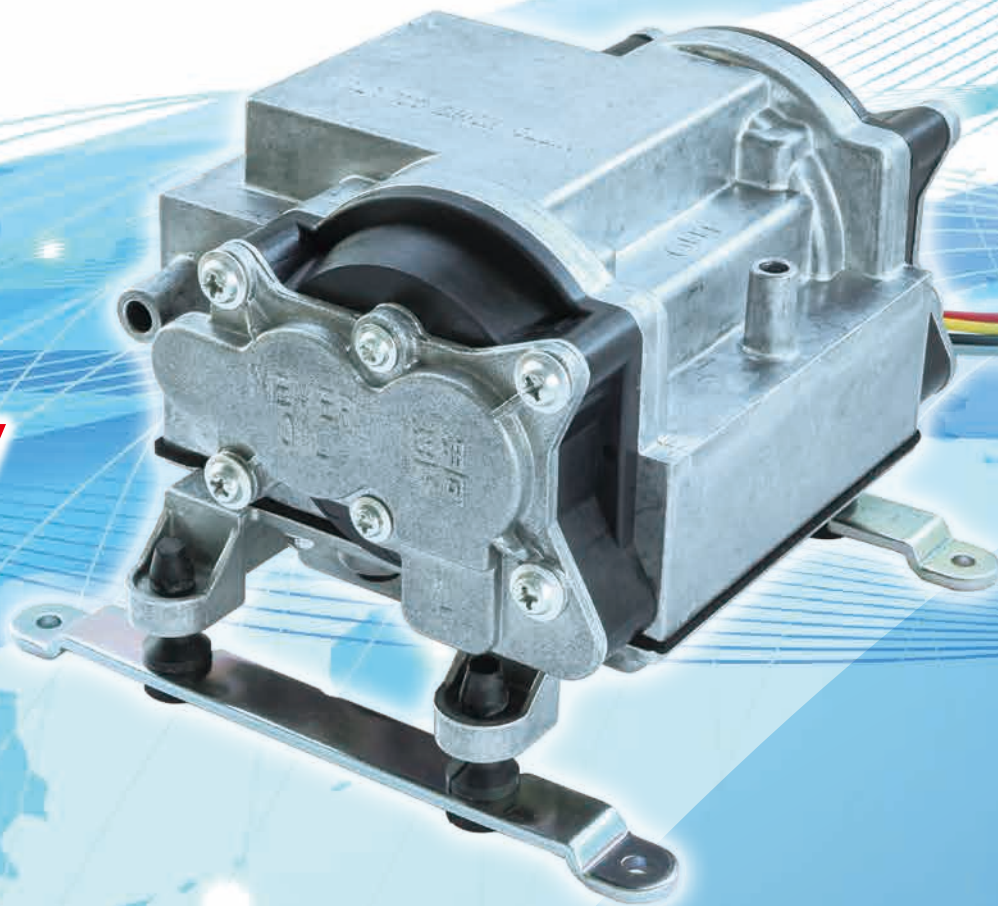
expands its applications and possibilities

- DC-driven electromagnetic diaphragm system
- The output control function enables adjustment of flow rate and pressure



Compressor

Vacuum pump

NEW

Application
Examples

Anti-decubitus mattresses Solder suction devices

Specifications

Model	DVC0301B-Y1	DVC0301B-Y2
Attainable Vacuum	-26.7 kPa (-200 mmHg) -267 mbar, -7.87 in.Hg	-
Rated Pressure	10 kPa (0.1 kgf/cm ²), 0.1 bar, 1.42 psig	
Rated Airflow	30 L/min, 1.06 cfm	
Rated Voltage	24 V DC	
Maximum Pressure	25 kPa (0.25 kgf/cm ²), 0.25 bar, 3.56 psig	
Current (Mean Value)	1.7 A or less *1	
Working Pressure Range	-26.7 to 25 kPa (-200 mmHg to 0.25 kgf/cm ²) -267 mbar to 0.25 bar -7.87 in.Hg to 3.56 psig	0 to 25 kPa (0 to 0.25 kgf/cm ²) 0 to 0.25 bar 0 to 3.56 psig
Duty Cycle	Continuous	
Rated Performance	10000 hours	
Inlet	10.5 mm O.D. straight barb	-
Outlet	8.5 mm O.D. straight barb	
Coil Insulation Class	Class B equivalent	
Mounting Dimensions	117.5 (L) x 125 (W) mm, 4 - 5/8" (L) x 4 - 59/64" (W)	
Weight	1.9 kg, 4.2 Lbs	
Leadwire Length	300 ± 20 mm, 11 - 13/16 ± 25/32"	
Control Signal Voltage	0 to 5 V DC *2	

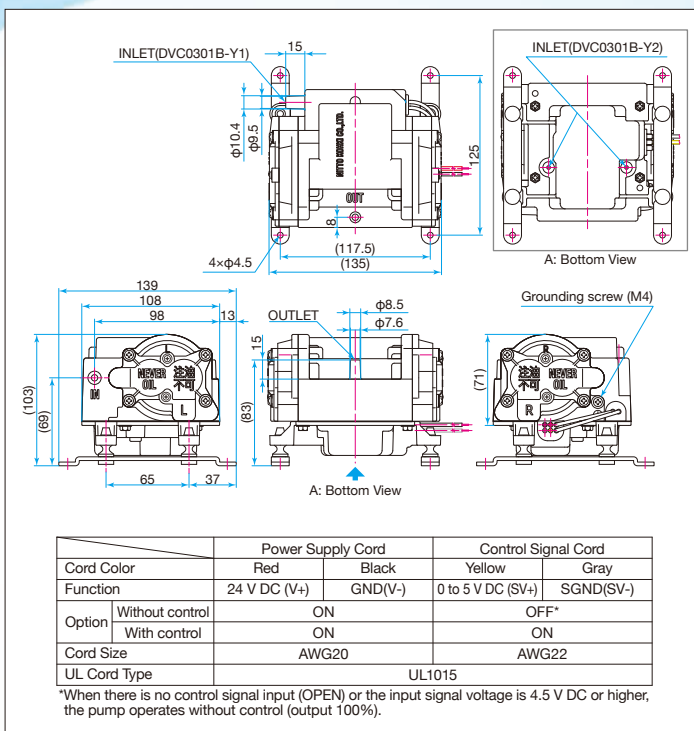
*1: The listed current values represent average current values. The peak current of this unit is approximately five times the listed value. Use a power supply and fuse with a capacity of 8.5 A or more, considering the peak current.

*2: During controlled operation, the pump output is proportional to the input signal voltage. The adjustable range is 0.7 V to 4.5 V DC (maximum 5 V DC). When there is no control signal input (OPEN) or the input signal voltage is 4.5 V DC or higher, the pump operates without control (output 100%).

*To stop the pump, turn off the main power supply (24 V DC) or set the input signal voltage to 0.7 V DC or lower.

*Only analog voltage input is supported for the control signal. Voltage input via PWM waveform duty cycle control is not supported.

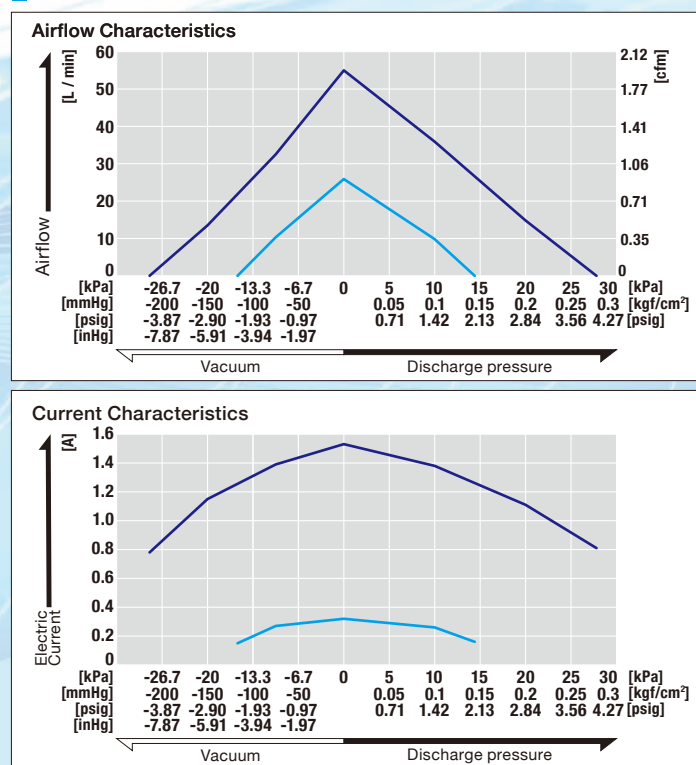
External Dimensions



Performance Characteristics Chart

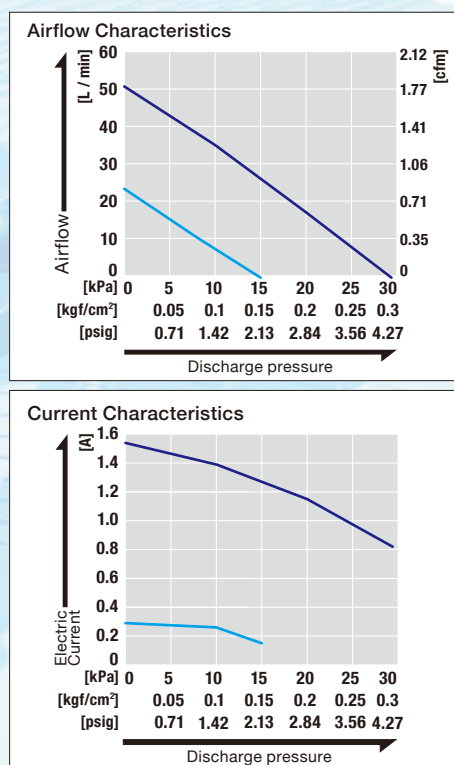
DVC0301B-Y1

Without control (Pump output 100%)
With control (Input signal voltage: 2 V)



DVC0301B-Y2

Without control (Pump output 100%)
With control (Input signal voltage: 2 V)



*Characteristic charts are for reference only and are not guaranteed values.

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