D15 Flow Control

Hilintec®

Micro Vacuum Pump & Compressor







Highlights

- Suitable for Li-ion battery power supply
- Compact size and powerful output
- Low electromagnetic interference
- Excellent corrosion resistance
- Long service life under max load

- Low temperature operation
- Industrial-grade reliability
- Good air tightness
- Driven by BLDC motor
- Compact size

Applications

- Gas sampling
- Medical equipment
- Analytical instruments
- Portable device

8K hours lifetime test

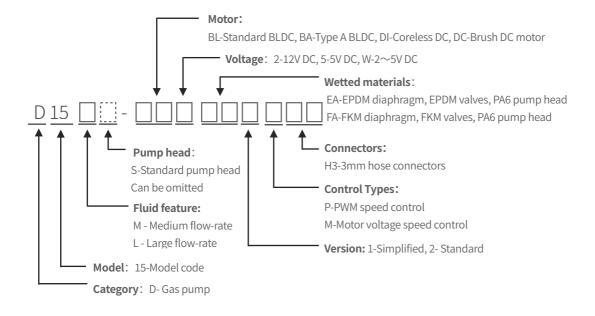
PERFORMAN	NCE DATA							
Model	Voltage (V DC)	Max. Load Current (mA)	Max. Peak Flow rate (L/min)	Max. Average Flow rate (L/min))	Max. Vacuum (-kPa)	Max. Pressure (kPa)	Weight (g)	
Configuration	Motor: Standar	d BLDC Diaph	ragm:EPDM	Valves:EPDM P	ump Head: PA	6		
D15L-BL2	12	≪90	≥1.8	≥1.2	≥40	≥40	≈45	
D15L-BL5	5	≤220	≥1.8	≥1.2	≥40	≥40	≈45	
Configuration	Motor: Type A BLDC Diaphragm:EPDM Valves:EPDM Pump Head: PA6							
D15L-BA2	12	≤150	≥3.0	≥1.6	≥40	≥40	≈43	
Configuration	Motor: Coreless DC Diaphragm:EPDM Valves:EPDM Pump Head: PA6							
D15M-DIW	4 (2~5V)	≤200	≥2.2	≥1.1	≥26	≥28	≈39	
Configuration	Motor: Brush DC Diaphragm:EPDM Valves:EPDM Pump Head: PA6							
D15L-DC2	12	≪60	≥1.4	≥0.8	≥35	≥35	≈63	
D15L-DC5	5	≤150	≥1.4	≥0.8	≥35	≥35	≈64	
	This parameter is a preliminary calibration parameter before the official release of the product,				product, and ma	ay be		

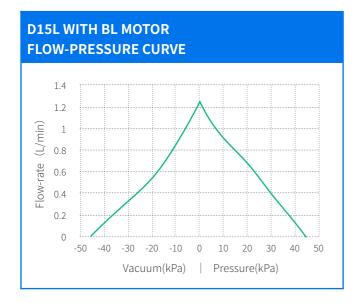
further revised with subsequent product releases, and is for evaluation and reference only

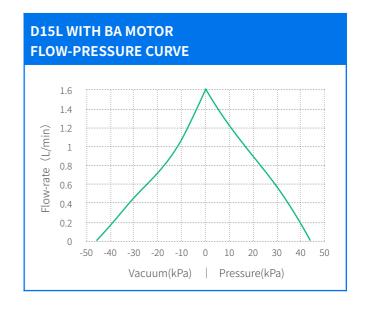
CONFIGRATION OPTIONS				
Material Options				
Pump Head	Fiber reinforced PA6			
Diaphragm	EPDM	FKM		
Valves	EPDM	FKM		
Motor	BL:Standard BLDC	BA:Type A BLDC	DI:Coreless DC	DC:Brush DC

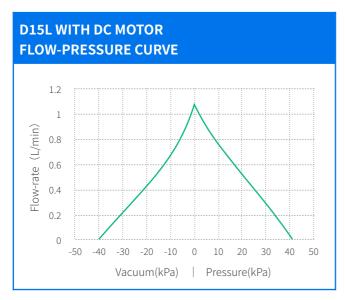
Models	D15			
Versions	Simplified with DC Motor	Standard with BL/BA Motor	Standard with DI Motor	
Fully Loaded Lifetime(hrs)	2500	8000*	4000*	
Unloaded Lifetime (hrs)	3000	12000*	5000*	
Motor Lifetime (hrs)	3000	15000*	8000*	
Test conditions	In a clean and non-corrosive laboratory, the pump is fully loaded (the outlet is blocked, is directly connected to the atmosphere) or unloaded (the inlet and outlet are directly contone to the atmosphere), and runs continuously around the clock; ambient temperature: 5°C relative humidity: 50%-85%, fluctuates with the climate.			
Working Condition				
Working Condition Operating temperature		ork in a clean and ventilated rature models can be starte	l environment d and operated at -20°C \sim 0	
	should w The low ambient temper The low ambient temperature Permissible temperature of the	ork in a clean and ventilated rature models can be starte models with heater can be	l environment d and operated at -20°C∼0 started and operated at -30 ansferring gas is allowed to	

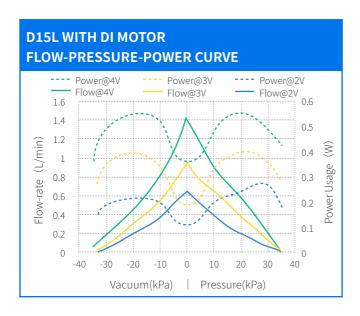
D15 MODEL KEY

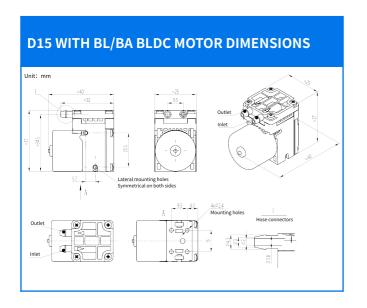


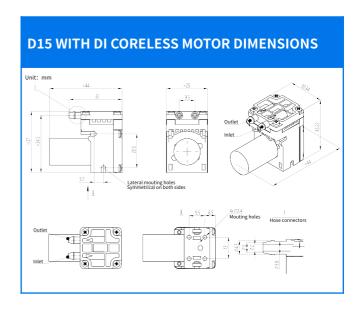


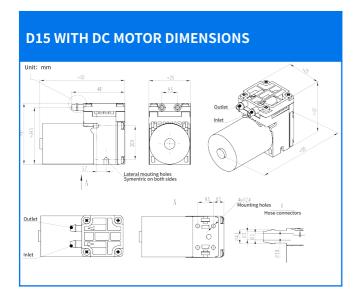












ACCESSORIES				
Descriptions	Illustration	Function		
Shock-isolation mounting feet		Reduce the impact of vibration on the equipment during the operation of the pump. This accessory comes with the pump*4		
Filter		The 80-mesh filter protect both pumps and other upstream instrumentation and hydraulic circuits against particulate, crystals and fibers . It is recommended to replace it regularly. This accessory comes with the pump*1		
Check valve		Enhance the cut-off capability of the gas circuit system to ensure one-way gas flow. This accessory can be purchased on demand		
Flow stabilizer		Eliminate and reduce pulsation, make gas output smooth and stable, this accessory can be purchased on demand		
Manual control valve		It can be used to manually adjust the gas flow rate, pressure and vacuum. This accessory can be purchased on demand		
DC power adapter	CERCO APPLE	220V AC to DC switching power supply, this accessory can be purchased on demand		
Silencer		It is used to eliminate and reduce the airflow noise caused by pumping operation, this accessory can be purchased on demand		







To be a driving force in innovation of human fluid technology

Create value for customers by offering high quality fluid solutions

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