



KQET-03

Independent Pump

The KQET-03 independent pump is an air pump used in online monitoring systems, with a maximum flow rate of 100L/min. It can be connected to high-flow remote airborne particle counters and remote bioaerosol samplers respectively, and can communicate with the upper computer monitoring software via the 485 protocol.

The independent pump body is made of 304 stainless steel, meeting the requirements of GMP specifications. It is equipped with a built-in air pump with a 3-year long service life, featuring low vibration and low noise.

Meanwhile, it adopts a precision digital flow sensor to monitor the sampling flow in real time. Through an intelligent algorithm, it achieves the function of flow negative feedback automatic adjustment, ensuring the stability of the sampling flow without being disturbed by the environment and guaranteeing the accuracy of sampling results.



Product Features

- NMB ball bearing motor for long service life and low noise.
- Compact size, high negative pressure, and large flow rate.
- Supports configurable flow rate, suitable for a wider range of application scenarios.
- Supports 24-hour uninterrupted continuous operation.
- Built-in flow sensor adopting the latest generation of MEMS sensor chip technology.
- High flow measurement accuracy, fast response, and good repeatability.
- Negative feedback closed-loop control, stepless speed regulation, and stable flow rate.

Technical parameters

Model	KQET-03
Air Suction Flow Rate	0-100LPM (configurable)
Air Pump	Low vibration, low noise
Power Supply	DC24V/4A power adapter
Power	80W
Flow Accuracy	±5%FS
Repeatability	±1%FS
Maximum Air Pressure	11.5kPa
Communication Method	RS485 @ Modbus RTU Protocol
Material	304 stainless steel (brushed surface)
Dimensions (mm)	Width 214 * Depth 170 * Height 145
Weight	1.8Kg
Operating Environment	Temperature 10~40°C, Humidity 10%~90% (no condensation)
Storage Environment	Temperature -10~50°C, Humidity 90% (no condensation)
Installation Requirements	Stainless steel pipes shall be used for exposed parts inside and outside Grade A areas, and hard air pipes shall be used outside the areas. The distance from the pump source to the sampling point shall not exceed 10m. Each pump shall be equipped with one high-flow remote airborne particle counter or one set of bioaerosol sampling heads. The pump shall be installed as close as possible to the interior of equipment or technical mezzanine, or in the return air duct.

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