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# Peristaltic Pump for Flue Gas Monitoring Environmental Protection in Action



Continuous flue gas emission monitoring system (CEMS) refers to a device that continuously monitors the concentration and total emission of gaseous pollutants and particulate matter emitted by air pollution sources and transmits the information to the competent authority in real time. Through on-site

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ured, and parameters such as flue gas are measured at the same time, and the

the sample gas is quickly separated and discharged. The dehumidification, a [peristaltic pump](#) and related alarm system, and the condensate.

The common faults of the flue gas online monitoring system are: the cooling effect of the condenser is not ideal, and a large amount of moisture in the sample gas is not separated, which affects the normal operation of the flue gas analyzer. If it runs for a long time, it will damage the analyzer.

Gas monitoring needs to strictly ensure the tightness of the monitoring system. Therefore, the condensate discharge system is required to have good tightness to prevent outside air from entering the condenser through the drainage system and affecting the sample gas composition.

The condensate has a complex chemical composition and is corrosive. Therefore, the condensate drainage system must have good corrosion resistance. When the sample gas filtration effect is not good, the condensed water will contain solid particles, and the condensate discharge system should be suitable for abrasive fluids. The drain pump should be suitable for vacuum environment and can run continuously.



Products Recommended

## —. KT15 series peristaltic pump

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Wall thickness 1.6mm Pharmed, silicone  
Max flow rate 255ml/min, interval

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ure, can supply precision smooth flow

3. Pressure tube gap can be fine-tuned, suitable for different wall thickness and output more pressure.
4. Pump head body using PPS materials, rollers body using PVDF materials, excellent mechanical properties and chemical resistance.
5. Pump head cover using translucent plastic, observing pump head internal working condition conveniently, effectively preventing exterior debris into pump head, open-cover shutdown function(optional).
6. Installation tube has two types: connector built-in and spring tube clip, which is suitable for more working requirement.
7. Supply type 57 stepper motor, AC synchronous motor and AC/DC gear motor drive, panel and bottom board fixed method, it is suitable for using variable small and medium-sized instruments and equipments.



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## 二、TY15 series peristaltic pump

### Product Features:

1. Lead Fluid TY15 (spring easy-load) pump head adopts easy-load structure design, flexible upper pressing, spring roller structure, the tube is easy to install and has a longer service life .
2. The roller body has a catch wheel design, and the tube has a higher running reliability .

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with high mechanical properties and

ment, instrument, laboratory, etc.,



### Advantages of Lead Fluid peristaltic pump

1. It has good airtightness, no valve and seal are needed, and no liquid backflow and siphon will occur. Even when the pump is not running, the hose will be squeezed and sealed well, which can prevent outside air from entering the condenser through the drainage system and affecting the gas analysis results.
2. When transferring fluid, the fluid is only in contact with the inner cavity of the hose. Choosing a hose made of suitable corrosion-resistant material can be used to transfer corrosive condensate for a long time.
3. With low shear force, when transferring fluids containing solid particles, there will be no jamming problems, nor will it affect the service life of the pump.
4. With strong self-priming ability, and the pump can run dry without any damage, it can effectively drain the condensate and reduce maintenance costs.

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## PRODUCT CATEGORY

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Peristaltic Pumps

Syringe Pumps

Gear Pumps

OEM Peristaltic Pump

Peristaltic Pump Heads

Peristaltic Pump Tubing

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