

Explosion Proof Peristaltic Pump

Model No.: ExD-300-18L/UT35

Flow Rate: 2.252-18000mL/min



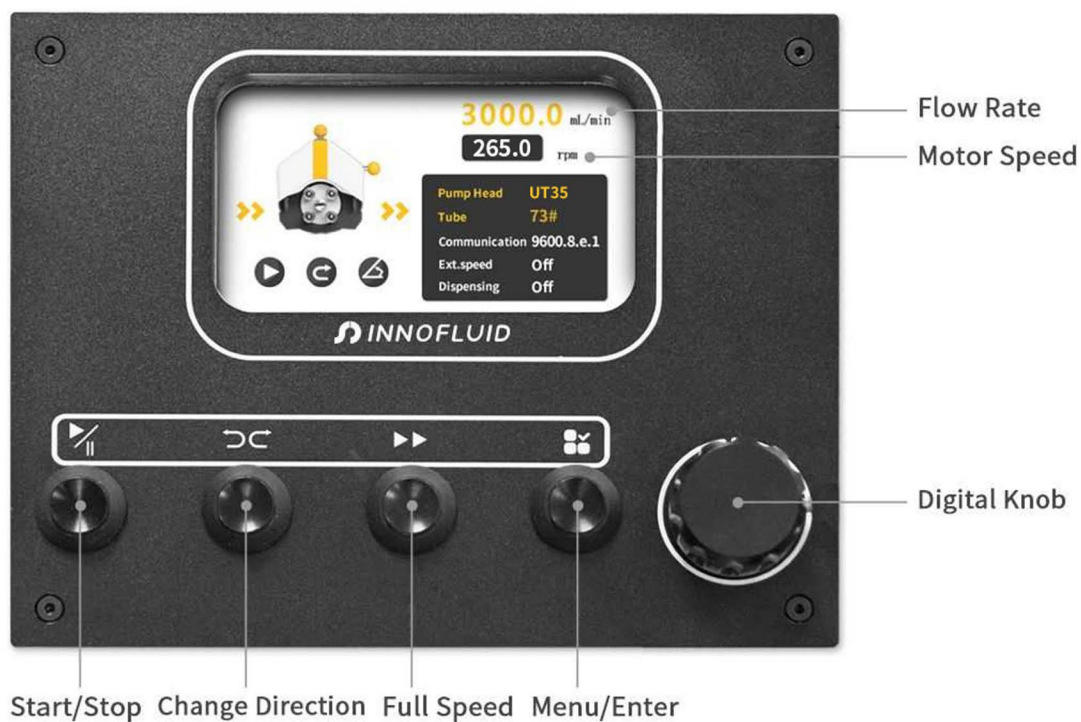
Product Introduction

- A new category of peristaltic pump based on explosion proof standards.
- The whole pump is explosion proof, reaching  II2G Ex db IIC T4 Gb and  II2D Ex tb IIIC T130°C Db explosion proof levels at the same time.
- Intelligent control system to realize high precision transferring and dispensing.

Product Features

1. Integrated casting body .
2. IP66 designed for industrial environment.
3. Three-proof buttons and knob system: explosion-proof dustproof, waterproof.
4. Intelligent operation system.
5. Passed EMC test excellent anti-electromagnetic interference capability.
6. AC servo motor control system.
7. Laser engraving logo pattern to eliminate the hidden danger of static electricity of traditional plastic label.

Main Interface



Pump Head



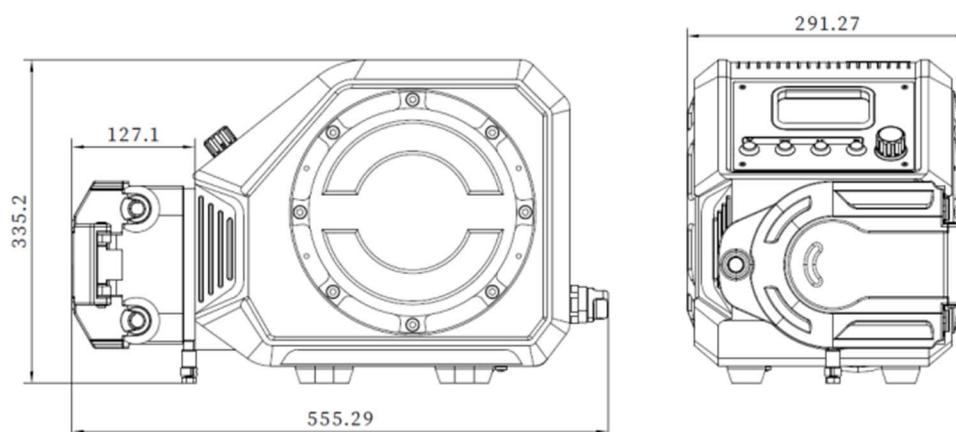
UT35

Flow Rate

Pump Head	Tubing		mL/r	Speed:0.1-265mL Flow Rate(mL/min)	Tubing Max.Pressure(Mpa)		Rollers number	Weight(kg)
	Size	ID×Wall Thickness(mm)			Intermittent	Continuous		
UT35(4)	12x4	12x4	34.34	3.434-9100	0.12	0.1	4 rollers	4.65
	17x4	17x4	55.85	5.585-14800	0.11	0.1		

Pump Head	Tubing		mL/r	Speed:0.1-265mL Flow Rate(mL/min)	Tubing Max.Pressure(Mpa)		Rollers number	Weight(kg)
	Size	ID×Wall Thickness(mm)			Intermittent	Continuous		
UT35(2)	26#	6.4x3.3	22.52	2.252-5970	0.15	0.12	2 rollers	3.99
	73#	9.6x3.3	24.15	2.415-6400	0.16	0.12		
	82#	12.7x3.3	42.26	4.226-11200	0.15	0.1		
	15.9x3.3	15.9x3.3	62.75	6.275-16630	0.15	0.12		
	12x4	12x4	41.5	4.150-11000	0.15	0.12		
	17x4	17x4	67.92	6.792-18000	0.13	0.12		

Dimension Drawing(Unit:mm)



Technical Specifications

Marking	 II2G Ex db IIC T4 Gb  II2D Ex tb IIIC T130°C
Standard	GB/T3836.1-2021, GB/T3836.2-2021, GB/T3836.31-2021, GB/T 4208-2017, Q/BSC03-2022
Housing material	Aluminum Alloy
Speed range	0.1-265rpm
Speed resolution	0.1rpm
Display	4.3 inch-Industrial grade-True color LCD screen
Control	Mechanical button, explosion proof knob, external control signal and communication
Working mode	Flow rate mode, Dispensing mode
Flow rate mode	Continuous transferring according to the set flow rate or motor speed
Dispensing mode	Set the dispensing volume, dispensing time, pause time and repeat numbers
Dispensing volume	0.1mL-9999L
Dispensing time	0.1sec-9999hour
Pause time	0.5sec-9999hour
Repeat number	1-9999 times, 0 represent unlimited
Calibration function	Input actual volume and calibrate automatically
Back suction angle	0-360°
Communication	RS485
Communication protocol	Modbus protocol(RTU mode)
External control speed signal	0-5V, 0-10V, 4-20mA optional
External control signal input	Active switch signal (5-24V) control start/stop, direction and full speed; Passive switch signal control start/stop.
External control signal output	Open collector output working status
Drive dimension (L×W×H)	504mm*285mm*335mm
Power supply	AC220V±10%, 50/60Hz
Rated power	300W
Relative humidity	<90%
Condition temperature	0-40°C
IP rate	IP66
Drive weight	34kg

Tubing Installation Procedure

2-Roller Pump Head Tubing Installation



1. Built-in Tubing Assembly



2. Press the locking switch to open the pump head.



3. Install the tubing into the pump head and place it smoothly into the corresponding tube clamps.



4. Rotate the roller assembly and move the rollers into the working position using the lever.



5. Close the pump head housing to complete the tubing installation.

4-Roller Pump Head Tubing Installation



1. Built-in Tubing Assembly



2. Press the locking switch to open the pump head.



3. Install the built-in tube assembly into the pump head and press the tube connectors into the corresponding grooves.



4. Rotate the roller assembly and move the rollers into the working position using the lever.



5. Close the pump head housing to complete the tubing installation.