



PUMPS & ASPIRATORS



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Iris Syringe pump used to provide precise and accurate amounts of fluid in high-impact research environments ranging in fields from industrial application, laboratory and high voltage electrostatic spinning, small flow rate, and high accuracy of transmissible liquid. Accommodates 5 ul to 25 ml glass syringes for industrial, and laboratory applications. Iris syringe pumps are ideal for supplying exact and fixed amounts of fluids for a multiple syringe pump applications including infusing infusion, withdrawal, infusion and withdrawal, withdrawal and infusion.

Industrial Syringe Pump available with 1 model and Equipped with 2 digital input and 3 output for TTL level signal. Designed glass syringes from 50 ul, 100 ul, 250 ul, 500 ul, 1.0 ml, 2.5 ml, 5.0 ml, 10 ml and 25ml. Support RS485 or RS232 interface and automates pipetting, diluting and dispensing function.

Split Syringe Pump is equipped with a 7-inch touch LCD screen that is convenient to set parameters and multiple indicators show the working status. Featuring with 4 different unique working modes: infusion, withdrawal, infusion then withdrawal, withdrawal then infusion.

Simple Syringe Pump is equipped with a 320×240 TFT display controller that permits monitoring of parameters and changes of speed. Applicable for electrostatics spinning, small flow rate, and high accuracy of transmissible liquid. Featuring with 4 different unique working modes including infusion, withdrawal, infusion and withdrawal, withdrawal and infusion, continuous, additional mode.

Intelligent Syringe Pump is equipped with an LCD display controller that permits monitoring of parameters and changes of speed. Applicable for high precision transfer with microflow rates (not for medical use). Featuring with 4 different unique working modes including infusion, withdrawal, infusion and withdrawal, withdrawal and infusion.

Intelligent Syringe Pump

Intelligent Syringe Pump



Intelligent Syringe Pump IIPP-2000 Series is suitable for high precision transfer with microflow rates (not for medical use). Featuring with 4 different unique working modes including infusion, withdrawal, infusion and withdrawal, withdrawal and infusion. Design with a 4.3-inch LCD color industrial grade and stainless steel manufacturing material. Pumps are accomplished by holding 60 commands, ensure unlimited repetitions and unlimited runtime.

Intelligent Syringe Pump IIPP-2001 is the one channel pump that can be used both withdraw and infuse with 0.001 - 127000 $\mu\text{l}/\text{min}$ flow rate and 10 to 140000 μl syringe size.

Intelligent Syringe Pump IIPP-2002 is the two-channel pump that can be used both withdraw and infuse with 0.001 - 127000 $\mu\text{l}/\text{min}$ flow rate and 10 to 140000 μl syringe size.

Intelligent Syringe Pump IIPP-2004 is the three-channel pump that can be used both withdraw and infuse with 0.001 - 21997 $\mu\text{l}/\text{min}$ flow rate and 10 to 10000 μl syringe size.

Intelligent Syringe Pump IIPP-2006 is the six-channel pump that can be used both withdraw and infuse with 0.001 - 21997 $\mu\text{l}/\text{min}$ flow rate and 10 to 10000 μl syringe size.

Intelligent Syringe Pump IIPP-2008 is the eight-channel pump that can be used both withdraw and infuse with 0.001 - 21997 $\mu\text{l}/\text{min}$ flow rate and 10 to 10000 μl syringe size.

Intelligent Syringe Pump IIPP-2010 are the ten channel pump can be used both withdraw and infuse with 0.001 - 21997 $\mu\text{l}/\text{min}$ flow rate and 10 to 10000 μl syringe size.

Intelligent Syringe Pump IIPP-2012 are the twelve channel pump can be used both withdraw and infuse with 0.001 - 21997 $\mu\text{l}/\text{min}$ flow rate and 10 to 10000 μl syringe size.

- Versatile pumping features allow infusion or withdrawal in $\mu\text{l}/\text{hr}$, $\mu\text{l}/\text{min}$, ml/hr , and ml/min
- Accuracy Error $\leq \pm 0.5\%$ (stroke $>30\%$ maximum stroke)
- Touch screen and mechanical keypad are controlling the whole pump
- High-resolution 4.3-inch LCD color industrial-grade display and real-time display flow rate
- The infusion volume rate of 0.078 μm
- Engineered with stainless steel material
- Different channel range: 1, 2, 4, 6, 8, 10 and 12
- Maximum Linear Force up to 10 kg F
- The pump will stall and give an alarm function when the drive structure of the pump is blocked
- The excellent durability of drive and easy to operate
- Choice available for input injector inner diameter function
- Accommodates power-off memory

Technical Specifications

Model	IIPP-2001				IIPP-2002				IIPP-2004				IIPP-2006				IIPP-2008				IIPP-2010				IIPP-2012			
Flow rate	0.001 - 127000 ul/min												0.001 - 21997 ul/min															
Channel	1				2				4				6				8				10				12			
Material	Stainless steel																											
Display	4.3" LCD colour industrial grade																											
Accuracy	Error $\pm$ 0.5% (stroke >30% maximum stroke)																											
Syringe	Installed syringe size and custom syringe ID																											
Operating Temperature	0 to 40°C																											
Syringe Size	10 to 140000 μ l								10 to 10000 μ l																			
Control Method	Touch screen and mechanical keypad																											
Maximum and Minimum Step Rate	0.937 sec/Micro step and 0.035 MS/Micro step																											
Maximum and Minimum Linear Rate	132 mm/min and 5 μ m/min																											
Infusion Volume per micro-step	0.078 μ m																											
Maximum Linear Force	10 kgF																											
Advance per micro-step	0.078 μ m																											
Common modes	Can save the 60 most common modes																											
Working Mode	Infusion, Withdrawal, Infusion and withdrawal , Withdrawal and infusion																											
Back distance	0.01 - 10 mm																											
Start/stop signal, withdrawal and infusion signal	Active switch signal: 5 V, 12 V and 24 V and Passive switch signal such as a foot pedal switch(option)																											
IP rate	IP31																											
Communication	RS232, RS485, Modus protocol (RTU mode)																											
Humidity	< 80 %																											
Power Consumption	-				-				-				-				-				-							
Dimension	-				-				-				-				-				-							
Weight	4.42 kg				4.62 kg				4.52 kg				4.74 kg				-				5.18 kg				-			
Electrical Requirement	AC 90V		264 V		AC 90V		264 V		AC 90V		264 V		AC 90V		264 V		AC 90V		264 V		AC 90V		264 V		AC 90V		264 V	
Catalogue No.	4905555-00		490555502		4905560-00		490556002		4905565-00		490556502		4905570-00		490557002		4905575-00		490557502		4905580-00		490558002		4905585-00		490558502	

