PUMPS & ASPIRATORS

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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 ul/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 ul/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 ul/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 ul/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 ul/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 ul/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 ul/min flow rate and 10 to 10000 µl syringe size.

- Versatile pumping features allow infusion or withdrawal in µl/hr, µl/min, ml/hr, and ml/min
- Accuracy Error ≤ ± 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 ? ± 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 µl				10 to 10000 µl									
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 µm/min													
Infusion Volume per micro-step	0.078 ?m													
Maximum Linear Force	10 kgF													
Advance per micro-step	0.078 µm													
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

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