INSTECH





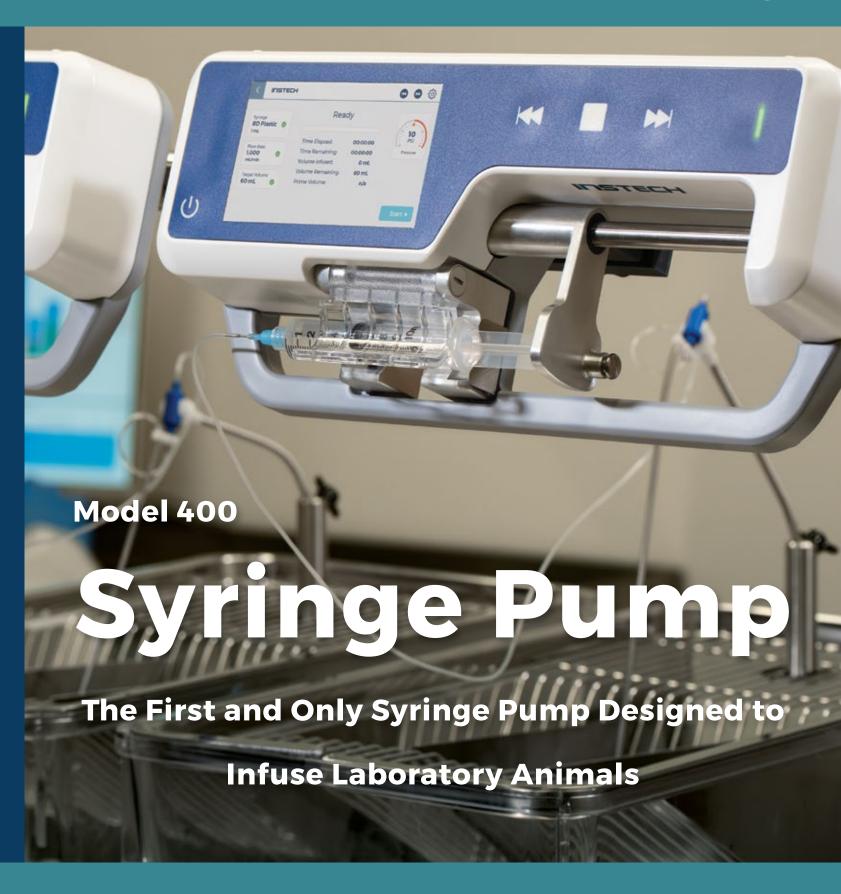
SPECIFICATIONS

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Accuracy ¹	0.5%
Number of syringes	1
Syringe size maximum	50/60 mL
Syringe size minimum	1 μL
Maximum flow rate (50/60ml syringe)	120 mL/min
Minimum flow rate (1µL syringe)	0.001 μL/h
Minimum flow rate (1mL syringe)	1 μL/h
Step rate at min flow rate	1.2 sec/step
Step resolution	0.02 μm
Pusher travel rate minimum	1 μm/min
Pusher travel rate maximum	216 mm/min
Compatible syringes	B-D plastic, B-D glass, HSW Normject, Hamilton,
	Custom (user defined)
Pressure monitor	0-20PSI with 1mL and larger syringes ²
Occlusion alarm settings	10, 15, 20PSI, off
Maximum linear force	18lbs
Size	31x13x6.5 cm
Weight	1.7 kg
Display	4.3in 800x480 color touchscreen
Orientation	Vertical or horizontal
Power	12VDC 2A
Protection if power lost during infusion	Auto-resumes when power restored
Battery operation	Compatible with external USB PD3.0 battery
	packs; small 10000mAh pack will run pump for ~8h
Data connector	USB-C
Firmware update connector	USB-A
Wireless network	IEEE 802.15.4
Mounting brackets	Various

1 Linear displacement accuracy over full scale plunger travel. Excludes syringe variability. 2 Readings are approximate and include impact of syringe friction. For research use only. Not for human use.

REQUEST A QUOTE





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www.animalab.eu



www.instechlabs.com

Why Choose the Instech Syringe Pump?

IF YOU ARE FAMILIAR WITH **INDUSTRIAL PUMPS, LIKE HARVARD APPARATUS, NEW ERA OR CHEMYX...**

For Animal Safety

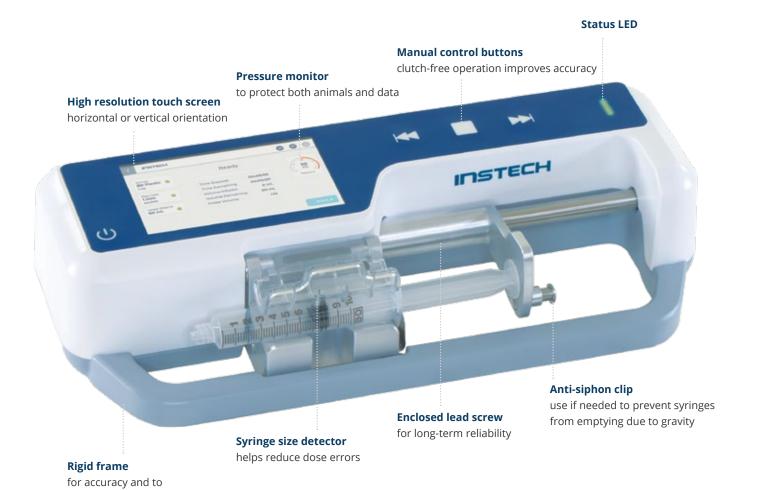
The pump monitors pressure to alert you to occlusions before they become a disaster.

For Data Quality

Monitoring occlusions gives you confidence your dose went into the animal, not the bedding.

For Superior Flow Performance

It has smoother flow on the low end and higher speeds on the top end.



IF YOU ARE FAMILIAR WITH PUMPS ORIGINALLY DESIGNED FOR THE **CLINICAL MARKET SUCH AS BAXTER/** SAI, ORCHESTA™ OR MEDFUSION...

/ For Ease of Use

The pump features a modern touchscreen and a simplicity that hospital pumps can't match.

For Accuracy

Rigid construction and a unique clutchless design leads to accuracy of ±0.5% compared to 2-3% for most clinical pumps.



/ For Low Flow Studies

This pump is ideal for applications like intrathecal dosing, microdialysis and mouse infusion, where pumps designed for humans are useless.



For Lower Cost

The pump has the safety features of a clinical pump but the price of a laboratory pump, and design that's at the beginning of its life not the end.

YOU SHOULD NOT CHOOSE THE INSTECH PUMP IF YOU NEED TO ...

protect syringes



Some syringe pumps are made for extremely high pressure applications. Animal infusion is not one of them.

✓ Use Multiple Syringes On One Pump

Multi-syringe pumps can't monitor individual line pressures, and if one animal has an issue all lines must be interrupted.



The Instech pump is made to infuse only. Pumps that can accidentally be switched to withdraw are dangerous when connected to a live animal.