INSTECH



MISTERH



SPECIFICATIONS 0.5% Number of syringes 50/60 mL Syringe size maximum Syringe size minimum 1 μL Maximum flow rate (50/60 mL syringe) 120 mL/min Minimum flow rate (1 µL syringe) 0.001 µL/h Minimum flow rate (1 mL syringe) 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) 0-20 PSI with 1 mL and larger syringes² 10, 15, 20 PSI, off Occlusion alarm settings 18 lbs Maximum linear force 31x13x6.5 cm 1.7 kg Weight 4.3in 800x480 color touchscreen Display Orientation Vertical or horizontal 12VDC 2A Protection if power lost during infusion Compatible with external USB PD3.0 battery Battery operation packs; 10000mAh pack will run pump for ~8h USB-C Data connector USB-A Firmware update connector IEEE 802.15.4 Various Mounting brackets Linear displacement accuracy over full scale plunger travel. Excludes syringe variability. For research use only. Not for human use. **REQUEST**

A QUOTE

Model 400

Syringe Pump

The First and Only Syringe Pump Designed to

Infuse Laboratory Animals

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Why Choose the Instech Syringe Pump?



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

For Animal Safety

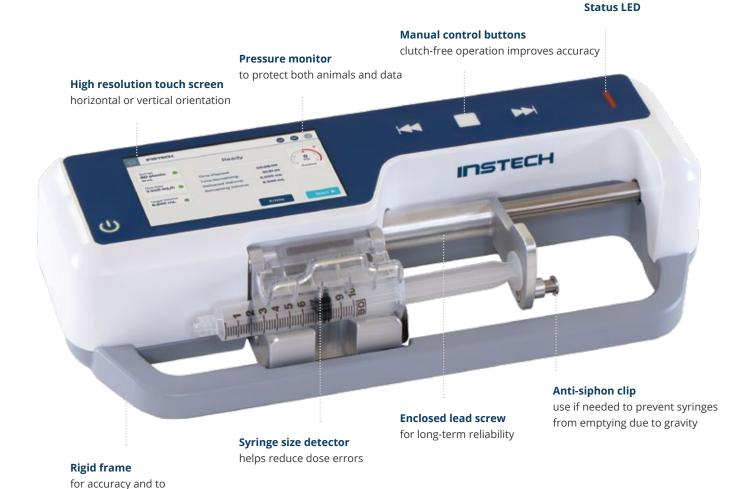
The pump monitors pressure to alert you to occlusions before they become a disaster.

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, ORCHESTATM 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

X Infuse at High Pressures

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.

Withdraw

The Instech pump is made to infuse only.

Pumps that can accidentally be switched to withdraw are dangerous when connected to a live animal.