



# IPS-12 Syringe Pump

## Single Channel Infusion Pump

The IPS-12 is a compact, single-channel unit designed for basic infusion-type processes. It offers precise and stable flow control with a cost-effective structure. Ideal for simple, consistent and repeatable fluid handling applications.

| <b>SYRINGES</b>                    |  |
|------------------------------------|--|
| CAPACITY                           | 1  |
| TYPE                               | Glass, plastic, steel                    |
| MIN SIZE                           | Hamilton 0.5 µl (ID:0.103mm)             |
| MAX SIZE                           | Monoject 140 ml (ID:38mm)                |
| <b>FLOW RATE</b>                   |  |
| MIN                                | 17.89 µl/min (Hamilton 0.5 µl)           |
| MAX                                | 121.51 ml/min (140 ml Monoject Syringe)  |
| ACCURACY                           | < 3%                                     |
| REPRODUCIBILITY                    | < 3%                                     |
| <b>MOTOR SPECIFICATIONS</b>        |  |
| MOTOR TYPE                         | Stepper Motor                            |
| MOTOR DRIVE CONTROLLER             | Microcontroller with Microstep Drive     |
| STEP RESOLUTION (TRAVEL/MICROSTEP) | 357 nm/µstep                             |
| MIN STEP RATE                      | 10 sec/µstep                             |
| MAX STEP RATE                      | 200 µsec/µstep                           |
| MIN LINEAR SPEED                   | 2.14 µm/min                              |
| MAX LINEAR SPEED                   | 107.14 mm/min                            |
| LINEAR FORCE                       | 20 kg (44 lbs)                           |
| <b>GENERAL SPECIFICATIONS</b>      |  |
| RECIPE SAVE-RECALL                 | No                                       |
| POWER SUPPLY                       | 12 VDC 1A (110-240 VAC adapter included) |
| DIMENSIONS                         | W:200 L:170 H:137 mm                     |
| WEIGHT                             | 2.1 kg (4.6 lbs)                         |
| <b>OPERATING CONDITIONS</b>        |  |
| OPERATING TEMPERATURE              | -10 to 50 °C                             |
| STORAGE TEMPERATURE                | -30 to 85 °C                             |
| OPERATING HUMIDITY                 | RH 10% - RH 90% (non-condensed)          |
| STORAGE HUMIDITY                   | RH 10% - RH 90% (non-condensed)          |

- **4.3" touch display with user-friendly interface**
- **Single-channel, compact, and cost-effective design**
- **Precise and stable flow control for basic processes**