





IPS-12R Syringe Pump

Single Channel Infusion/Withdrawal Pump

The IPS-12R enables both infusion and withdrawal operations in a single channel. Flow rate and direction can be easily adjusted during use. It is suitable for applications that require bidirectional and flexible flow control.

IPS-12R Syringe Pump Specifications

- 4.3" intuitive touchscreen control
- Supports both infusion and withdrawal functions
- Adjustable flow rate during operation for flexible control

SYRINGES

CAPACITY

TYPE Glass, plastic, steel

 MIN SIZE
 Hamilton 0.5 μl (ID:0.103mm)

 MAX SIZE
 Monoject 140 ml (ID:38mm)

FLOW RATE

MIN 17,89 pl/min (Hamilton 0.5 μl)

MAX 121,51 ml/min (140 ml Monoject Syringe)

ACCURACY < 1% REPRODUCIBILITY < 1%

MOTOR SPESIFICATIONS

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 µm/min

 LINEAR FORCE
 20 kg

GENERAL SPESIFICATIONS

RECIPE SAVE-RECALL No

POWER SUPPLY 12 VDC 1A (110-240 VAC adapter included)

DIMENSIONS W:200 L:170 H:137 mm

WEIGHT 2.2 kg

OPERATING CONDITIONS

OPERATING TEMPERATURE

STORAGE TEMPERATURE

Between -10 and 50 (°C)

Between -30 and 85 (°C)

OPERATING HUMIDITY

RH 10% - RH 90% (not condensed)

STORAGE HUMIDITY

RH 10% - RH 90% (not condensed)