





IPS-13R Syringe Pump

Simultaneous Dual Channel Infusion/Withdrawal Pump

The IPS-13R supports infusion and withdrawal on two synchronized channels. Each operates together with adjustable flow rate and direction. A practical choice for processes that require coordinated, bidirectional control.

IPS-13R Syringe Pump Specifications

- 4.3" intuitive touch display
- · Dual synchronized infusion and withdrawal operation
- · Adjustable flow direction and rate for both channels

SYRINGES

TYPE 2 Interdependent
Glass, plastic, steel

 MIN SIZE
 Hamilton 0.5 μl (ID:0.103mm)

 MAX SIZE
 Monoject 140 ml (ID:38mm)

FLOW RATE

ΜΙΝ 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/µstepMIN STEP RATE10 sec/µstepMAX STEP RATE200 µsec/µstepMIN LINEAR SPEED2,14 µm/minMAX LINEAR SPEED107,14 µm/min

LINEAR FORCE 20 kg (each syringe:15 kg)

GENERAL SPESIFICATIONS

RECIPE SAVE-RECALL No

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

DIMENSIONS W:211 L:250 H:143 mm

WEIGHT 3.2 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)