



IPS-14R Syringe Pump

Independent Dual Channel Infusion/Withdrawal Pump

The IPS-14R supports infusion and withdrawal on two independent channels. Each channel's flow direction and rate can be set individually, offering maximum flexibility. Perfect for applications requiring distinct and adaptable dual-channel operation.

- 4.3" easy-to-use touchscreen display
- Independent infusion and withdrawal control for each channel
- Adjustable flow direction and speed per channel

SYRINGES

CAPACITY	2 Independent
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 for each syringe

GENERAL SPESIFICATIONS

RECIPE SAVE-RECALL	No
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:211 L:257 H:143 mm
WEIGHT	3.6 kg

OPERATING CONDITIONS

OPERATING TEMPERATURE	Between -10 and 50 (°C)
STORAGE TEMPERATURE	Between -30 and 85 (°C)
OPERATING HUMIDITY	RH 10% - RH 90% (not condensed)
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