



# IPS-14 Syringe Pump

## Independent Dual Channel Infusion Pump

The IPS-14 provides two fully independent channels, each capable of separate operation. Compact yet powerful, it allows distinct control of both channels for versatile process management. Ideal for multi-task or parallel setups.

### 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 µl/min (Hamilton 0.5 µl)
MAX	121.51 ml/min (140 ml Monoject Syringe)
ACCURACY	< 3%
REPRODUCIBILITY	< 3%

### MOTOR SPECIFICATIONS

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 for each syringe (44 lbs)

### GENERAL SPECIFICATIONS

RECIPE SAVE-RECALL	No
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:200 L:257 H:143 mm
WEIGHT	3.3 kg (7.2 lbs)

### OPERATING CONDITIONS

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" touchscreen with independent channel control**
- **Two channels operate completely separately**
- **Compact and efficient design for versatile use**