



# TPS-96 Total Pipetting Solution™

The TPS-96 offers 96 channel high performance pipetting that is ideal for low-volume or high-volume multichannel microplate pipetting and for serial dilution applications. Two models are available: The **TPS-96H** for working with higher volumes and the **TPS-96L** for low volumes. The microprocessor-controlled pipetting mechanism provides accurate and precise pipetting of microliter or sub-microliter volumes of samples into 96 or 384-well microplates. The high-speed pipetting system provides short processing times by delivering liquids through up to 96 channels simultaneously with precise volume control.



flexible • affordable • compact • versatile • easy to use • reliable



The Total Pipetting Solution (TPS) represents a new generation of affordable liquid handling systems with the versatility and reliability required for today's demanding laboratory environment, surpassing its competition in terms of applications diversity and reliability. This powerful pipettor has a compact size that easily fits on laboratory benches and also can be placed in suitable laboratory hoods.

The TPS-96 uses Apricot Designs' unique head design which employs high-precision manufacturing to produce reasonably-priced heads that are independent of the pipetting mechanism. The TPS-96 electronically loads and unloads pipetting heads in a few seconds, allowing simple and easy set-up for the task at hand. The TPS-96 will automatically index the pipetting head if necessary for accessing 384-well plates. The TPS-96H model is suitable for routine pipetting tasks for volumes up to 550 ul. The TPS-96L uses a smaller diameter syringe mechanism and is optimal for low volume pipetting as low as 0.5 ul.

## Features

- Flexible design for liquid transfers and pipetting operations for 96 and 384-well microplates and can also be used for serial dilutions by row or column.
- Uses the unique easy-change head system from Apricot Designs, allowing the user to build a diverse head library with a reasonable investment. The heads are interchangeable with other Apricot pipettors.
- Select from 12 or 15 deck positions that can be used for plates, reservoirs, or tips for optimal walkway automation.
- Automatic disposable tip loading and unloading for Apricot Designs tips. The disposable tip loading location is accessible by robotics for expanded capacity.
- Intuitive graphical user interface via serial interface control.
- Small footprint conserves bench space and fits easily into suitably-sized hoods.

## Automation

- The open deck design makes it easy to use robotics to supply labware and disposable tips to the TPS-96. It can be integrated as part of an automation workcell by combining it with laboratory automation software and robotics.

## Options

- **TPS-96L** model: Low-volume version with 125 ul pipettors for optimal pipetting as low as 0.5 ul.
- **TPS-96H** model: High-volume version with 550 ul pipetting channels for up to 550 ul pipetting.

## Options (continued)

- Fixed tip heads with 8, 12 and 96 channels.
- Disposable tip heads with 8, 12 or 96 channels for Apricot 550 and ESP tips or Biomek® FX tips.
- Tip washing system with recirculating pump.
- Filtration station, 2-position with vacuum manifold.
- Bar code scanner.
- Motorized plate shaker.
- Refillable reservoir.
- Optional built-on ducted or recirculating hood enclosure.

## Applications

- Serial dilution (by row or column).
- Plate replication.
- Plate reformatting.
- Reagent addition.
- Compound addition.

## Specifications

- Dispensing Precision (L) <2% CV at 1 ul  
(H) <2% CV at 5 ul
- Dispensing Accuracy (L) +/- 1% at 1 ul  
(H) +/- 1% at 10 ul
- Resolution (L) 0.1 ul (H) 1 ul
- Pipette Volume (L) 0.5-125 (H) ul 1-550
- Dimensions (3x4) 35"L x 23"W x 27"H  
889L x 585W x 686H mm  
(3x5) 41"L x 23"W x 27"H  
1042L x 585W x 686H mm
- Weight Approx. 190 lbs (95 kg)
- Power 100 to 240 VAC, 50/60 HZ
- Operating Temperature 50 - 100 °F

Designs that make sense

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