



TPS-24 Total Pipetting Solution™

The **TPS-24** offers 24 channel high performance pipetting that is ideal for serial dilution applications and for multichannel microplate pipetting. The microprocessor-controlled pipetting mechanism provides accurate and precise pipetting of microliter or sub-microliter volumes of samples into 96, 384, or 1536-well microplates. The high-speed pipetting system provides short processing times by delivering liquids through 8, 12, 16 or 24 channels simultaneously with precise volume control.



versatile · flexible · affordable · compact · 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. With the innovative Externally Sealed Pipette (ESP™) tips, the TPS pipetting system surpasses 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-24 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-24 electronically loads and unloads pipetting heads in a few seconds, allowing simple and easy set-up for the task at hand. The TPS-24 will automatically index the pipetting head if necessary for accessing 384-well or 1536-well plates. When disposable tip heads are used, the TPS-24 will automatically load the required number of tips for the programmed operation.

Features

- Flexible design for serial dilutions by row or column and can also be used for liquid transfers and pipetting operations for 96, 384, and 1536-well microplates.
- 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.
- The 6-position deck is user-configurable for portrait or landscape orientation to allow serial dilutions by row or column.
- Automatic disposable tip loading and unloading. 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-24. It can be integrated as part of an automation workcell by combining it with laboratory automation software and robotics.

Options

- Fixed tip heads with 8, 12, 16 and 24 channels.
- Disposable tip heads with 16 or 24 channels for Apricot ESP tips or Biomek® FX tips for 12 channels (TPS-24 automatically loads the correct number of tips for portrait operations).
- Tip washing system with recirculating pump.

Applications

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

Specifications

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|-------------------------|---|
| · Dispensing Precision | <2% CV at 1 ul |
| · Dispensing Accuracy | +/- 1% at 5 ul |
| · Resolution | 0.1 ul |
| · Pipette Volume | 0.5 - 250 ul |
| · Dimensions | 23"L x 21"W x 23"H
585L x 535W x 585H mm |
| · Weight | Approx. 120 lbs (55 kg) |
| · Power | 100 to 240 VAC, 50/60 HZ |
| · Operating Temperature | 50 - 100 °F |

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Designs that make sense