

TPS-384 Total Pipetting Solution™

The **TPS-384** offers 384 channel high performance pipetting that is ideal for low-volume multichannel microplate pipetting and for serial dilution applications. 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 up to 384 channels simultaneously with precise volume control.



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-384 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-384 electronically loads and unloads pipetting heads in a few seconds, allowing simple and easy set-up for the task at hand. The TPS-384 will automatically index the pipetting head if necessary for accessing 1536-well plates.

Features

- 384 pipetting channels for fastest operations of 384 liquid addition or 384-to-384 plate replication.
- Flexible design for liquid transfers and pipetting operations for 96, 384 and 1536-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 to 15 deck positions that can be used for plates, reservoirs, or tips for optimal walkway automation.
- Automatic disposable tip loading and unloading for Apricot ESP 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-384. 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, 24, 96 and 384 channels.
- Disposable tip heads with 8, 12, 16, 24, 96 or 384 channels for Apricot ESP tips, Apricot 550 tips, or Biomek® FX tips.

Options (continued)

- Tip washing system with recirculating pump.
- 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** <2% CV at 1 ul (96)
<2.8% CV at 1 ul (384)
< 2% CV at 5 ul (96 4-in-1)
- **Dispensing Accuracy** +/- 1% at 1 ul (96)
+/- 1.25 % at 1 ul (384)
- **Resolution** 0.1 ul
- **Pipette Volume** 0.5–125 ul
(1–500 with 4-in-1 head)
- **Dimensions** (3 x 3) 28"L x 23"W x 27"H
711L x 585W x 686H mm
(3 x 4) 35"L x 23"W x 27"H
889L x 585W x 686H mm
(3 x 5) 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** 10–38 °C



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