

AUTOMATED LIQUID HANDLING STATION



Automated Liquid Handling Station - ToronAPP™ 288

Automated Liquid Handling Station ToronAPP™ 288 is designed to reduce manual errors in repetitive liquid handling steps such as sample transfer, internal standard addition, and solvent dispensing. It helps improve consistency when preparing calibration standards and running routine workflows.

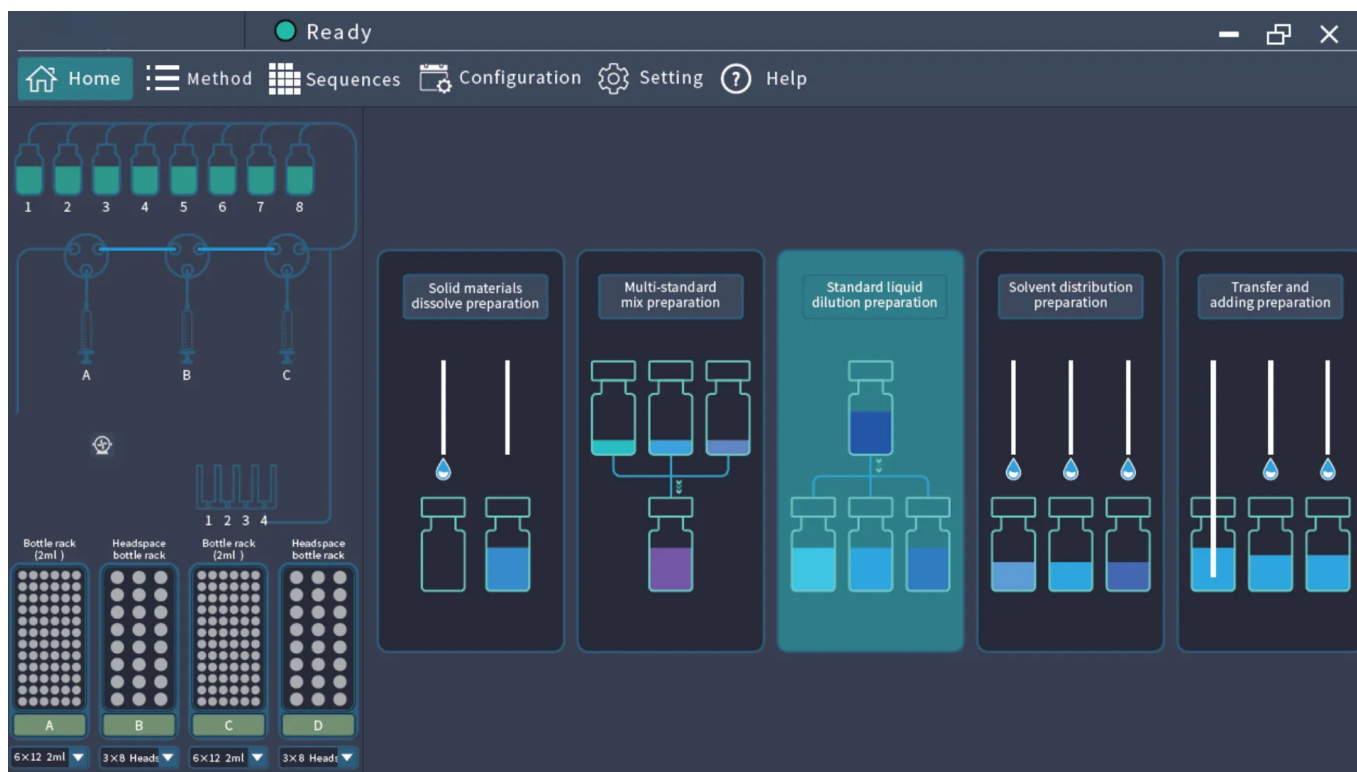
Built around automated, program-based operation, ToronAPP™ 288 supports reliable, repeatable preparation across batches while reducing technician workload. Remote monitoring options also help create a lower-risk work environment during unattended runs.

APPLICATIONS

Automated Liquid Handling Station - ToronAPP™ 288 Applications



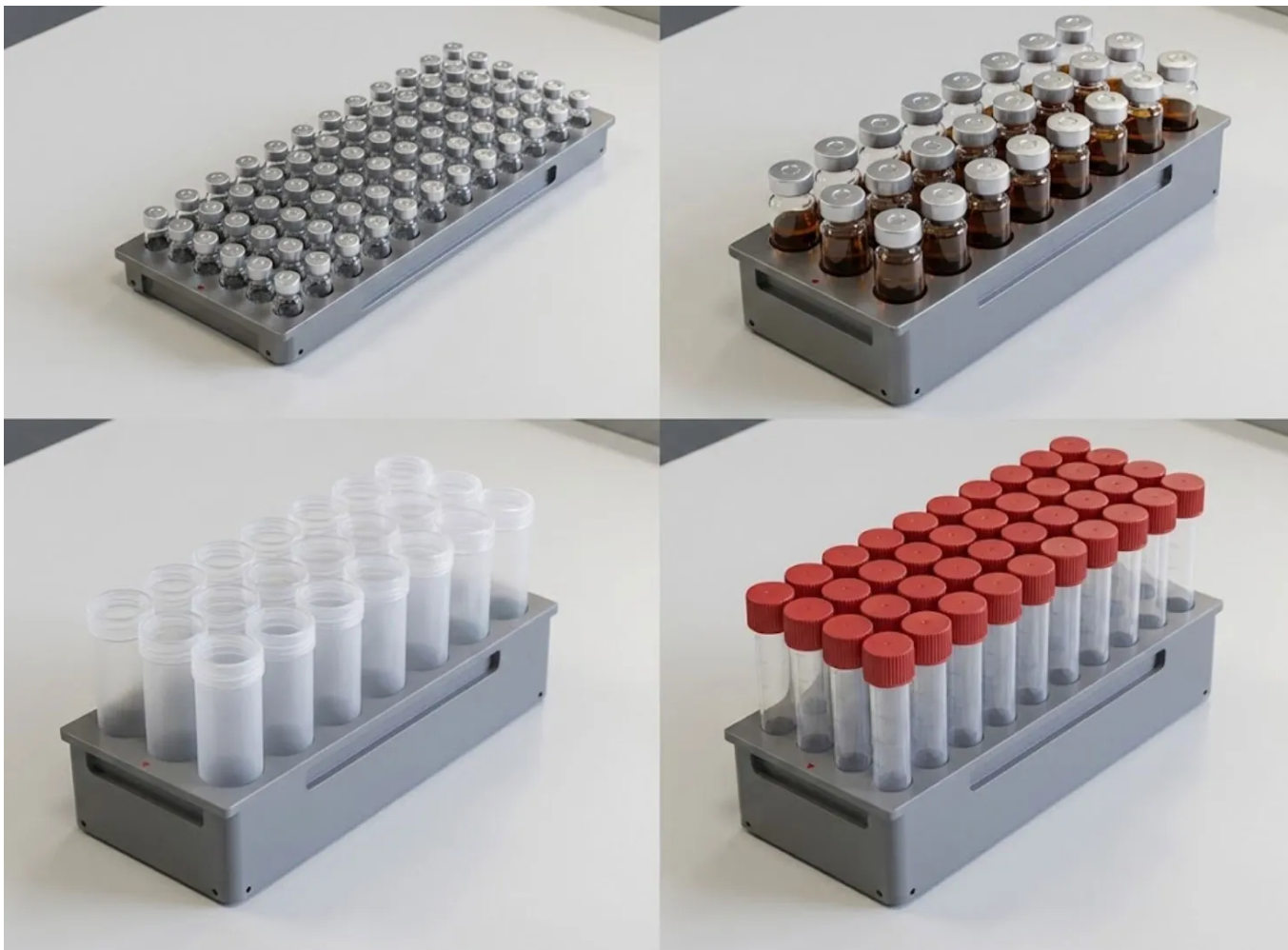
- Standard calibration curve preparation (multi-level) for a wide range of analytical methods, supporting consistent quantitation and method setup.
- Mixed-standard and fixed-standard preparation to streamline routine QC workflows and minimize manual pipetting variation.
- High-dilution workflows (up to 10,000 $\times$) for trace-level work where repeatable dilution accuracy impacts final results.
- Microliter-to-milliliter dispensing tasks (5 μ L to 100 mL) for labs that handle both small-volume standards and larger-volume solvent distribution.
- Volatile-solvent handling in headspace vials using a puncture sampling needle for more convenient microsampling.



FEATURES

Automated Liquid Handling Station - ToronAPP™ 288 Key Features

- Dual sampling modes (needle or puncture needle) to support conventional vials and headspace vials containing volatile solvents.
- Temperature-controlled sample rack (cooling + heating) to help keep samples at an appropriate temperature during preparation.
- Integrated oscillation and mixing for fast, consistent intermediate-solution mixing to improve prep repeatability.
- Broad vial and tube compatibility including 2 mL GC vials, 10/20 mL headspace vials, and 15/50 mL centrifuge tubes.
- High-precision syringe-based transfer designed for minute liquid handling and wide-range dilution capability.
- Multi-function prep workflows supporting standard curve preparation, mixed standards, fixed standards, and integrated solvent dispensing.
- Automated, programmatic operation to improve consistency and reproducibility across batches and reduce human error.
- Remote monitoring for unattended runs to support safer workflows and reduce routine supervision time.



TECHNICAL SPECIFICATIONS

Automated Liquid Handling Station - ToronAPP™ 288 Technical Specifications

Parameter	Specification
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Syringe Pump	3 syringes with different ranges
Max. Sample Capacity	288
Sample Vials	2 to 100 mL
Solvent Capacity	8
Dispensing Range	5 µL to 1000 µL per move
Software Interface	Windows PC/tablet; WiFi connection
Dimensions	71 cm × 67 cm × 74 cm
Weight	90 kg
Voltage	200 to 240 V, 50/60 Hz (110V is also available)
Power Rate	600 W
Storage Temperature	0 to 40 °C
Storage Humidity	20 to 85%
Operating Temperature	10 to 40 °C
Operating Humidity	20 to 80%



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