

MICROLIT ULTIMUS

Bottle Top Dispenser with
Dual Inlet® Technology



**We are World Leaders in
Bottle Top Dispensing Technology**

MICROLIT ULTIMUS is a Bottle Top Dispenser (BTD) that offers a sophisticated blend of features and functionality.

Built by our in-house team of product design engineers, it uses Dual Inlet®, an award-winning technology patented in India, the EU and the US.

It offers 4 liquid handling modes - rinsing, dilution, refilling, purging - without dismounting the dispenser. MICROLIT ULTIMUS also features two product innovations, EasyKnob® and FlexiNozzle® that enhance its ease of use and flexibility.

Designed with ergonomics and intuitive handling in mind, it exhibits excellent chemical compatibility and helps achieve precision with reliability in practical laboratory environments.

**Experience the Power of Precision
in Your Daily Laboratory Routine**



**Change Volume
with EasyKnob®**

EasyKnob® is a specially designed volume adjustment knob that allows 180° rotation for easy and effortless volume setting.



**Move Effortlessly with
a PTFE Piston**

A PTFE Piston with an ETP O-Ring facilitates smooth and effortless movement and ensures high chemical compatibility.



**Forget Dismounting
with Dual Inlet®**

MICROLIT ULTIMUS is equipped with an award-winning patented technology, Dual Inlet®, that enables 4 liquid handling modes without dismounting the dispenser.



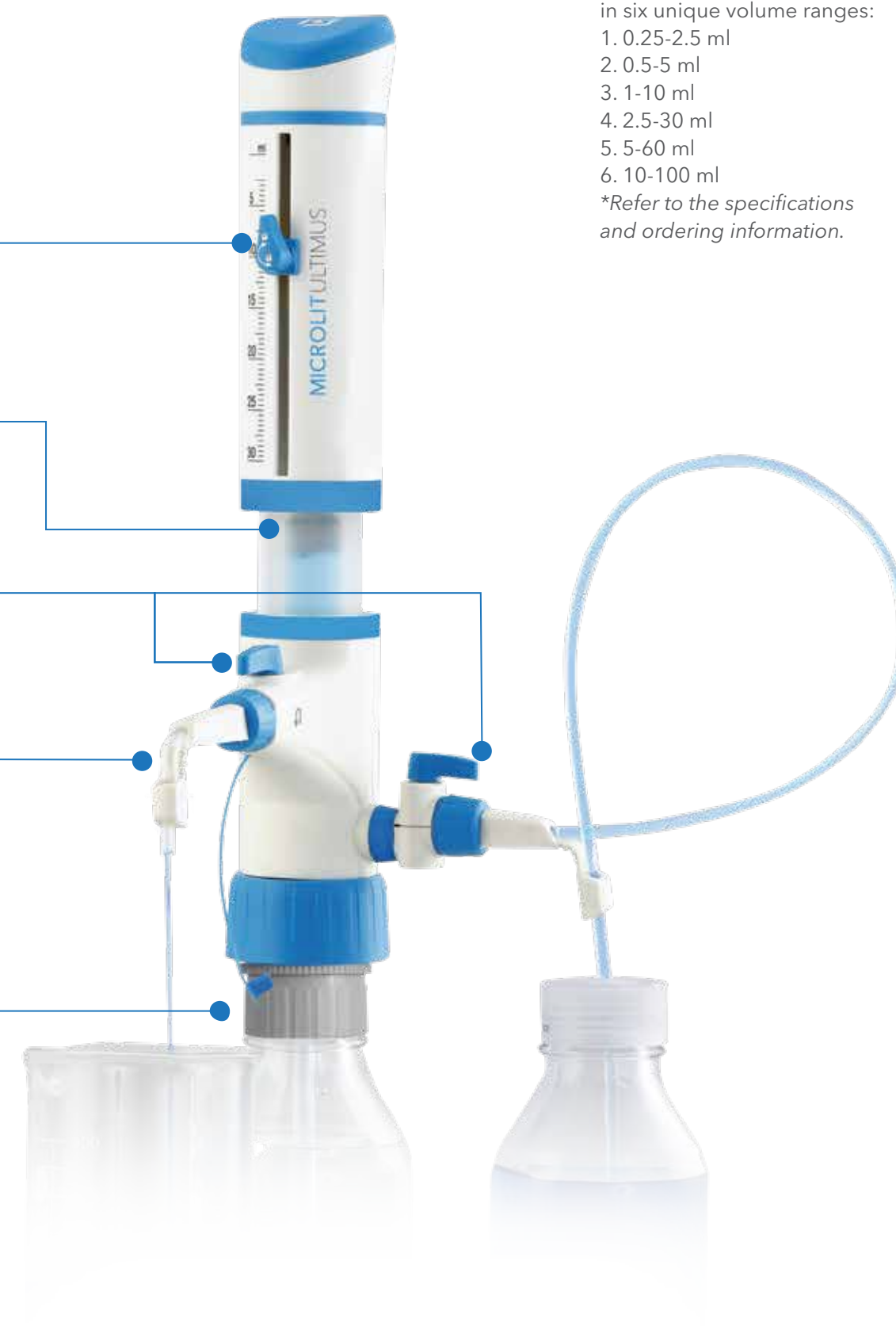
**Dispense Easily with
FlexiNozzle®**

FlexiNozzle® is an adjustable delivery nozzle. It offers a high degree of flexibility, facilitating easy dispensing in demanding laboratory conditions.



**Work Flexibly with
a 360° Adapter**

A specially designed Adapter allows 360° rotation, facilitating complete work flexibility.



• Autoclaving Parameters

MICROLIT ULTIMUS is fully autoclavable at 121 °C and 15 psi for a duration of 10 - 15 minutes.

**• Work with a Comprehensive
Volume Range**

MICROLIT ULTIMUS is available in six unique volume ranges:

1. 0.25-2.5 ml
2. 0.5-5 ml
3. 1-10 ml
4. 2.5-30 ml
5. 5-60 ml
6. 10-100 ml

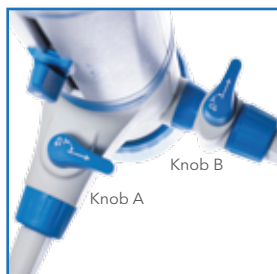
**Refer to the specifications and ordering information.*

Enhance Your Productivity with Four Modes of Operation



1
Standard Dispensing
Knob A - Open
Knob B - Closed

In this mode, the dispenser dispenses the liquid normally into the receiver from the bottle it is mounted on.



2
Purging
Knob A - Closed
Knob B - Closed

In this mode, the liquid is re-circulated into the same bottle on which the dispenser is mounted. This process removes the air from the dispenser, without wasting any reagent.



3
Dilution/Rinsing/Second Liquid Dispensing
Knob A - Open
Knob B - Open

In this mode, the liquid from a second source can be dispensed into the receiver. The second liquid can be distilled water, thus allowing the user to rinse the instrument without dismantling it or dilute the reagent within the receiver.



4
Bottle Refilling
Knob A - Closed
Knob B - Open

In this mode, the liquid from a second source can be used to refill the bottle, without dismantling the dispenser.

Work with a Sophisticated Accessory Range that Enhances Flexibility



Adapters

The instrument comes with five adapters that comfortably fit most laboratory reagent bottles. The available sizes are - 28 mm, 32 mm, 38 mm, 40 mm and 45 mm.



Reservoir Covers

For the second bottle, an additional set of four reservoir covers are provided in the sizes, 32 mm, 36 mm, 40 mm and 45 mm.



Extendable Tube

MICROLIT ULTIMUS comes with a Telescoping Tube, that can be adjusted according to a variety of bottle sizes.

*ISO 8655 is the globally accepted industry standard for piston-operated volumetric apparatus. The evaluation was performed by trained and certified personnel at an ISO17025 accredited lab.

Assured Quality with ISO 8655 Conformed Calibration



MICROLIT ULTIMUS is calibrated in an ISO 17025 accredited laboratory according to ISO 8655 standards.

A calibration certificate is included inside the product package.

A calibration tool is also included for quick in-lab recalibration.

Award-winning Design and Product Excellence



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E-2/549/2015/DEL (Pending)

Our products reflect the design philosophy of our organization, combining the best performance parameters with the best user experience.

We were honoured by **CII Industrial Innovation Awards** and adjudged a place **in the top 50 Most Innovative Companies of 2022**.

We are also accredited by a number of global organizations and have earned worldwide credibility.

SPECIFICATIONS AND ORDERING INFORMATION

| Model No. | Vol. Range | Increment | Accuracy | | CV | |
|-----------|-------------|-----------|----------|--------|-----|-------|
| | | | ±% | ±ml | ±% | ±ml |
| ULT-2.5 | 0.25-2.5 ml | 0.05 ml | 0.5 | 0.0125 | 0.2 | 0.005 |
| ULT-5 | 0.5-5 ml | 0.1 ml | 0.5 | 0.025 | 0.2 | 0.010 |
| ULT-10 | 1-10 ml | 0.2 ml | 0.5 | 0.050 | 0.1 | 0.010 |
| ULT-30 | 2.5-30 ml | 0.5 ml | 0.5 | 0.150 | 0.1 | 0.030 |
| ULT-60 | 5-60 ml | 1.0 ml | 0.5 | 0.300 | 0.1 | 0.060 |
| ULT-100 | 10-100 ml | 2.0 ml | 0.5 | 0.500 | 0.1 | 0.100 |

The error limits (Accuracy and Coefficient of Variation) mentioned above are in accordance with the nominal capacity (or maximum volume) indicated on the instrument. These are obtained by using the instrument with distilled water at equilibrium, the ambient temperature of 20 °C while operating it smoothly and steadily. The error limits are in accordance with DIN EN ISO 8655-5.

OUR REACH



YOUR SATISFACTION IS OUR PRIORITY

Microlit products follow GMP norms and are manufactured under comprehensive QA (Quality Assurance) & QC (Quality Control). Our products reflect the design philosophy of our organisation combining the best performance parameters with the best user experience. However, if you are dissatisfied with the operation of any of our products, get in touch with us or call your nearest Microlit dealer for free replacement.

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