



UltraPPM LITE

The Precise Positive Pressure Manifold

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The UltraPPM LITE is the latest in cutting-edge manifold design, instilling confidence during sample processing in chromatography workflows. This positive pressure manifold maintains a uniform pressure across all filter wells, guaranteeing a seamless flow of samples for maximum analyte recovery. Offering the flexibility to fine-tune settings, the UltraPPM LITE puts you in control, enabling you to reliably process samples effortlessly and proceed to downstream processes with full confidence.

Why Choose The UltraPPM LITE?

- Designed and precision engineered to effortlessly process your samples from start to finish
- Perfect for vacuum manifold users looking to increase throughput with ease, consistency and control
- Ideal for processing sensitive and challenging samples e.g. volatile, moisture-sensitive, viscous
- Well-to-well uniformity, plate-to-plate reproducibility during sample preparation methods including SPE

Features & Benefits

Take a closer look at the key features designed to bring ease, control and reliability to your sample processing workflow.



Optimise for Success

The UltraPPM LITE allows you to adjust the pressure and flow of samples in real-time with precision. This level of control allows users to tailor their specific requirements for a wide range of sample types. Moreover, the capability to fine-tune both flow and pressure significantly minimises the risk of cross-contamination, eliminating the common occurrence of splashing often encountered when using vacuum-based manifolds.

- Dual range controls for flow and pressure
- Accessible dials to quickly and adjust pressure and flow
- Clearly designed gauges for easy reading
- Lockable pressure to ensure extraction-to-extraction consistency
- 2 button operation feature for safety and prevention of accidental processing

Pressure Gauges
Improved Readability

Flow Meter
Increased Sensitivity



Flow Selector
Flexibility and Precision

Adjustable Pressure Controls
Greater Control



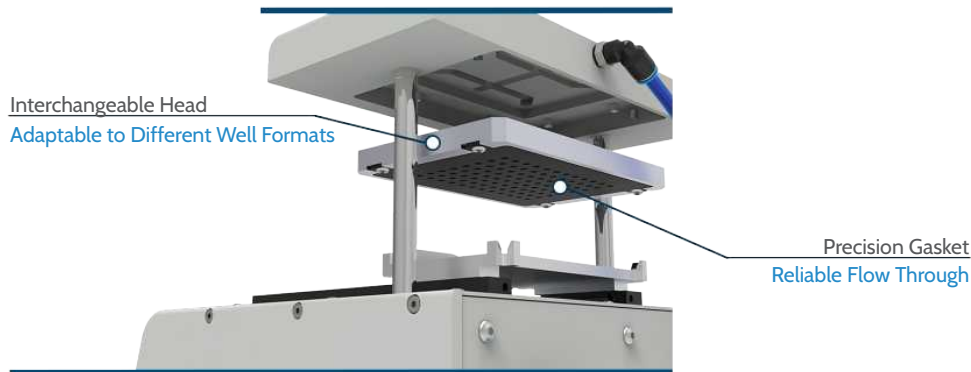
Dual Push-to-Operate Buttons
Safe & Controlled Operation



Recover with Confidence

Sample processing is a crucial initial step in sample preparation workflows, ensuring thorough cleaning and retrieval of analytes for downstream applications. This step becomes particularly critical when dealing with small sample volumes or precious samples, where every microlitre matters. The UltraPPM LITE overcomes challenges associated with incomplete flow due to filter blocking or inconsistent air delivery by delivering and maintaining uniform pressure across each well of a processing plate. Our proprietary technology guarantees that every sample flows evenly through every well and every use to give you a robust and reliable system that you can rely on.

- Precise and uniform delivery of air flow from manifold head
- Reliable and consistent delivery of gas for repeated processing*
- Interchangeable heads for 24, 48, 96, 384-well processing (see ordering for more information)
- Open design for real-time visual confirmation of sample flow through

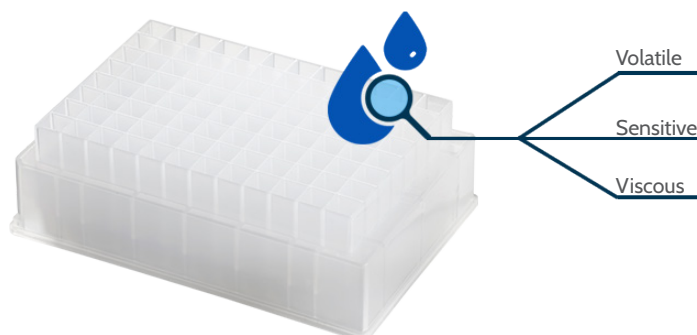


*The system design was subjected to over 50,000 pressure cycles to ensure robustness.



Process Many Kinds of Samples

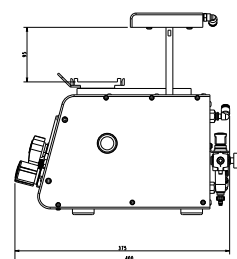
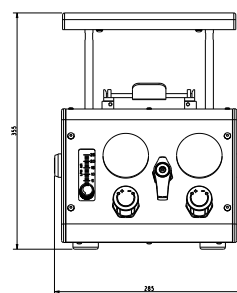
Whether you're working independently or in a multi-disciplinary laboratory, the UltraPPM LITE is designed to handle a wide variety of samples. With the capability to control both pressure and flow, you can easily tailor the settings to match your specific sample requirements. By applying consistent pressure to your samples, the instrument safeguards them against environmental threats like moisture, degradation, and even boiling (in the case of a vacuum manifold setup).



- **Volatile:** The elimination of boiling when using vacuum-based systems prevents loss of volatile compounds.
- **Sensitive Compounds:** Use of clean, moisture-free gas will protect moisture-sensitive compounds. The option to use nitrogen enables you to protect air-sensitive compounds.
- **Viscous:** The ability to use higher pressures that exceed atmospheric pressure, allows processing of viscous samples.

Technical Specifications

Weight	12 kg
Number of Samples Processed	24, 48, 96 and 384 (well heads sold separately)
Dimensions (W x D x H)	285 x 400/375* x 305 mm *with/without gas input regulator
Flow Control	Adjustable flow controls and flow meter
Gas	Nitrogen (recommended) or compressed air
Gas Supply Pressure	5.5-7 bar (80-100 PSI)
Gas Regulator Pressure	0.3-1 MPa / 3-10 bar / 43 -145 PSI
Low Pressure Regulator	0-0.1 MPa/ 0-1 bar/ 0-14.5 PSI
High Pressure Regulator	0-0.4 MPa / 0-4 bar / 0-60 PSI
Gas Flow Meter	3-12 L/min
Operating Temperature	Room Temperature



Ordering Information

Product Name	Description	Product Number
UltraPPM LITE	Positive pressure manifold for sample preparation. Standard base instrument (well heads sold separately).	250-10083-001
384-well Head	Interchangeable head for the UltraPPM LITE for ANSI/SBS 384-well plates	150-10083-002
96-well Head	Interchangeable head for the UltraPPM LITE for ANSI/SBS 96-well plates	150-10083-001
48-well Head	Interchangeable head for the UltraPPM LITE for ANSI/SBS 48-well plates	150-10083-003
24-well Head	Interchangeable head for the UltraPPM LITE for ANSI/SBS 24-well plates	150-10083-004

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