

VACUUM CONCENTRATION SOLUTIONS



MAIN FEATURES

MVP vacuum concentrators are widely used for the preparation of environmental samples, natural products, food and agricultural product samples, and heat-sensitive products. They achieve high-throughput automatic evaporation of liquid samples through **vacuum, heating, and rotation**. They improve work efficiency and sample recovery, reduce human errors, and enhance the accuracy of analysis.



MAIN APPLICATIONS

FOOD



Pesticide residues, additives in food, determination of acid in food and extraction.

PHARMA



Determination of API, extraction, contaminants and residues.

ENVIRONMENT



SVOC pollutants in soil, solid waste and atmospheric samples, such as organochlorine residues, polycyclic aromatic hydrocarbons, etc.

CHEMICAL



QC of plastics, petrochemical, oil, fats and textile.

FLEX-MVP

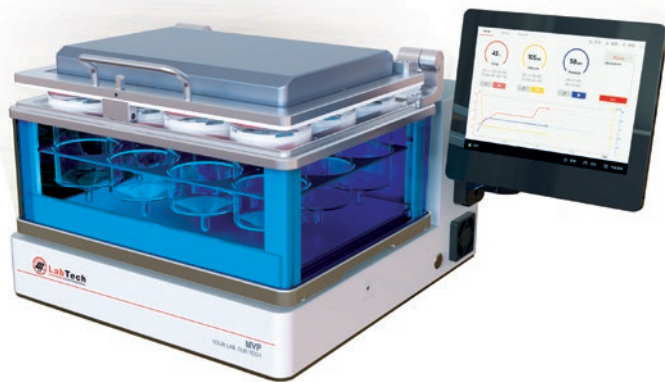
The **Flex-MVP** is a particularly flexible model, suitable for thermo sensitive samples. Thanks to its high solvent recovery rate, it allows to reduce the emissions of solvent, proving to be an environmentally friendly concentrator. The Flex-MVP boasts also energy-saving capabilities alongside its main functionalities.



FEATURES & ADVANTAGES

- ▶ **SUPER BATCH PROCESSING CAPABILITY**
16 sample positions, compatible with 200ml and 50ml vials.
- ▶ **FULLY SURROUNDED HEATING WITH HIGH EVAPORATION EFFICIENCY**
The whole sample vial is **fully immersed** and heated in the water bath, which is not exposed in the air, and improves the evaporation efficiency.
- ▶ **SAFE AND SIMPLE OPERATION**
Flip-top design for the evaporation cover. It features a convenient **snap-lock safety lock design**, without disassembly for sealing and opening of the cover.
- ▶ **FLEXIBLE AND FREE ACCESS AT ANY TIME**
Integral and independent sealing 2-in-1 design.
No need to pause the instrument or pressure relief for all the samples as a **single sample can be added and removed at any time**, without affecting the concentration process of the other samples.
- ▶ **FULL TRANSPARENCY**
The evaporation chamber is designed with **full transparency**, providing **strong visibility**.
The hanging evaporation cup allows observation of the evaporation status at the bottom of the sample through **LED lights** during operation.
- ▶ **INDEPENDENT PIPELINE TO PREVENT CROSS-CONTAMINATION**
Each sample vessel is sealed and discharged independently through its own pipeline, **avoiding liquid transfer** issues caused by sample boiling, preventing therefore cross-contamination and refluxing.
- ▶ **USER-FRIENDLY TOUCH SCREEN CONTROL**
The instrument is designed with a **10" touch screen control system**. The software allows **real-time adjustment** of temperature, vacuum level, and rotation speed. It supports time programming, displays gradient curves graphically, and shows dynamic changes in various parameters.
- ▶ **DUAL RECOVERY OF SOLVENT VAPOR AND EXHAUST GAS**
The condensation recovery module features a dual-condenser tower design, enabling **dual recovery of solvent vapor and exhaust gas**, ensuring comprehensive environmental friendliness.
- ▶ **SHAKING BATH SYSTEM**
The water bath rotates evenly to create vortex on the surface of each liquid sample.
The evaporation surface expands through this vortex flow and speed up evaporation rate. The **sample is continuously mixed**, preventing the overheating.
- ▶ **EXCHANGE TOP COVER SYSTEM**
The MVP Series can use **3 different** models of **top cover**, known as Flex-MVP, MVP-12 and MVP-48, making the system more flexible and covering various applications by using the same bath.

MVP-12



The **MVP-12** is specially produced for large volume needs. For this reason, it is suitable for extraction applications. Designed for high throughput, this instrument replaces up to 12 rotary evaporators, saving valuable lab space and resources.

LARGE VOLUME

Up to 12 samples with max. **900ml each**, can be concentrated simultaneously.

MVP-48



The **MVP-48** grants a larger capacity, thanks to its 48 positions. The possibility to work with centrifuge tubes allows an easier workflow in the laboratories.

DIFFERENT VIAL OPTIONS

Up to 48 samples, 60ml vials or 50ml centrifuge tubes, concentrated simultaneously.

HIGH EFFICIENCY

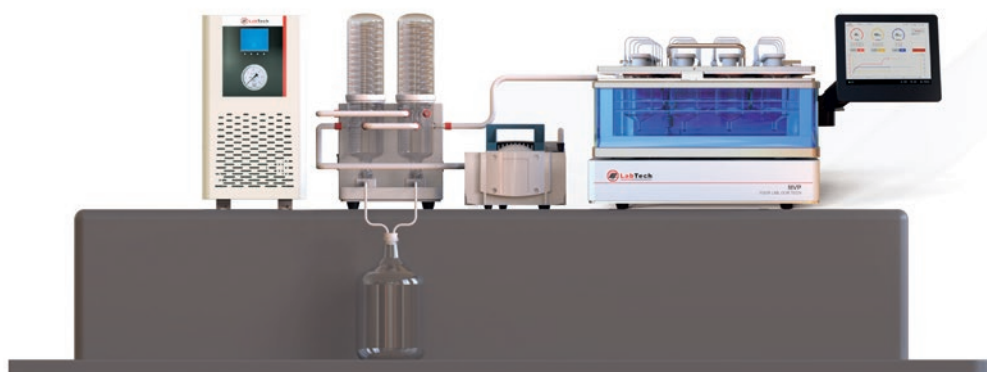
Fully surrounded water bath heating with higher evaporation efficiency.

HIGH SOLVENT RECOVERY

Solvent recovery rate of 500ml petroleum ether is more than 85%.

EASY OPERATION

Safety lock design enables fast open/close of the cover, more convenient and safer.



TECHNICAL FEATURES

	Flex-MVP	MVP-12	MVP-48
Sample positions	16	12	48
Sample volume	200ml concentration cup	900ml concentration cup	60ml vial & 50ml centrifuge tube
Individual sample adding/removing	✓	✗	✗
Shaking bath	✓	✓	✓
Shaking rpm range	0-300 rpm		
Temperature range	From room to 70°C		
Integrated PC	✓	✓	✓
Power consumption	1,8kW		
Power supply voltage	230V 50/60Hz		
Dimensions (WxDxH)	78x47x55cm		
Weight	62kg		
Ordering information	LT-MVP-FLEX	LT-MVP-12	LT-MVP-48



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