

VACUUM CONCENTRATION SOLUTIONS



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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.



FOOD



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

PHARMA



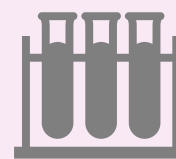
Determination of API, extraction, contaminants and residues.

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

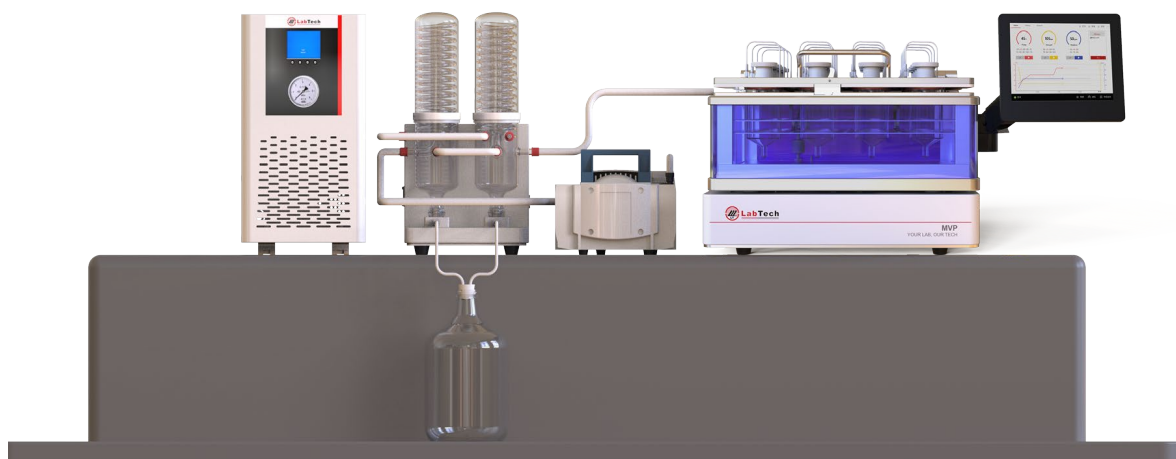
The condensation recovery module features a dual-condenser tower design, enabling **dual recovery of solvent vapor and exhaust gas**, ensuring comprehensive environmental friendliness.

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.

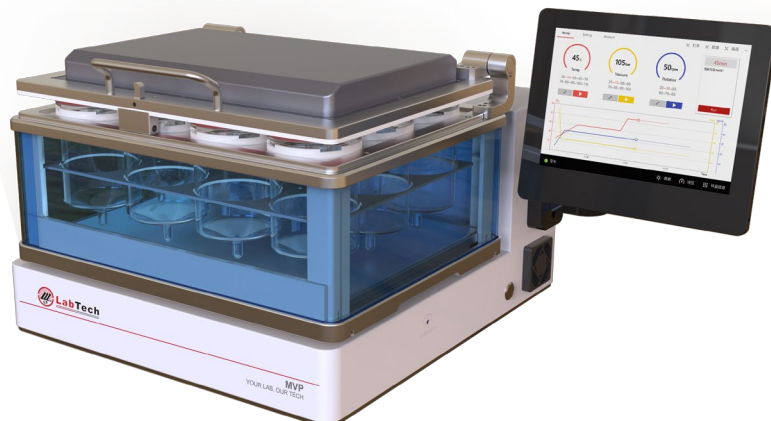
EXCHANGE TOP COVER SYSTEM

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.

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.

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

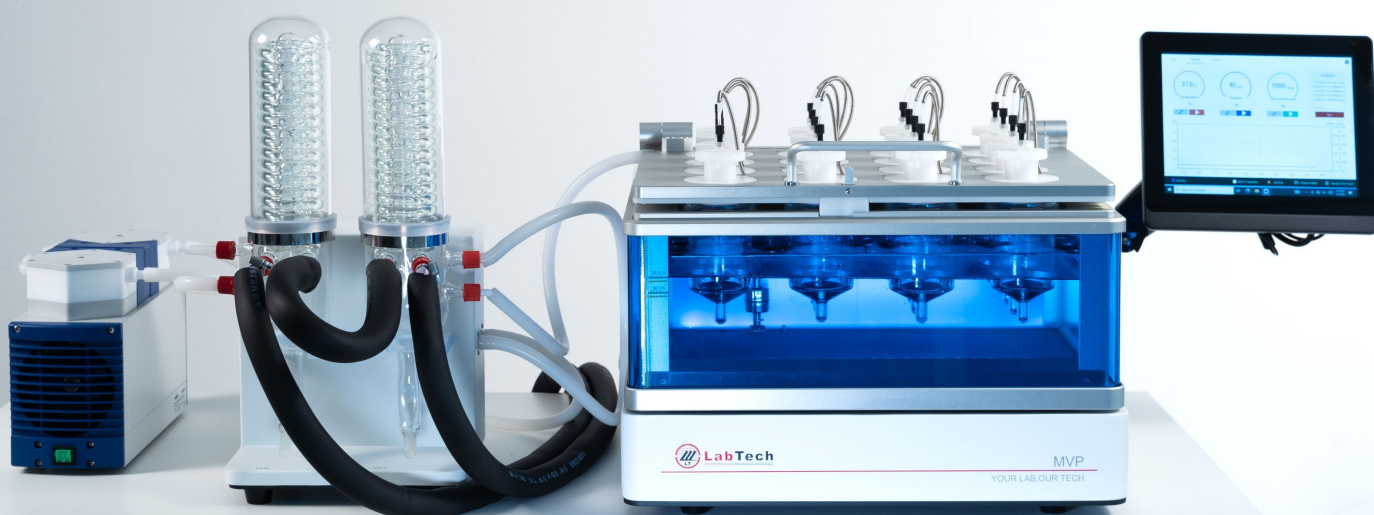
▶ Solvent recovery rate of 500mL petroleum ether is more than 85%.

EASY OPERATION

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

MODELS COMPARISON

	Flex-MVP	MVP-12	MVP-48
Sample positions	16	12	48
Sample volume	200mL concentration cup	900mL concentration cup	60mL vial & 50 mL 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 cm)	78x47x55		
Weight (Kg)	62		
Ordering information	LT-MVP-FLEX	LT-MVP-12	LT-MVP-48



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LabTech is a leading manufacturing company with skill and passion devoted to provide advanced laboratory solutions to the analytical community. We are located in Sorisole, northern Italy, with facilities in USA and China. Incorporated with global branches, LabTech is organized into R&D, production, marketing & sales and customer support. Major LabTech products include organic/inorganic sample preparation systems, laboratory cooling/heating/temperature control equipments, analytical instruments, gas generators, laboratory centrifuges and liquid nitrogen generators. With knowledgeable scientists and experienced engineers, our R&D team has developed and released a series of new lab equipments and instruments dedicated to the modern analytical laboratories. With all of these accomplishments and our endless research and development efforts, we are proud to be your professional partner in lab solutions.



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