M8

Automated Parallel Concentrator

The M8 automatic parallel system increases the capacity and sample throughput in laboratories while maintaining quality at an economical price. With this system, users can evaporate off all solvents or concentrate into a fixed end-point volume. A compact solution compared to conventional rotary evaporators, with the possibility to be used outside fume hood, thanks to the integrated vapor exhausting system.

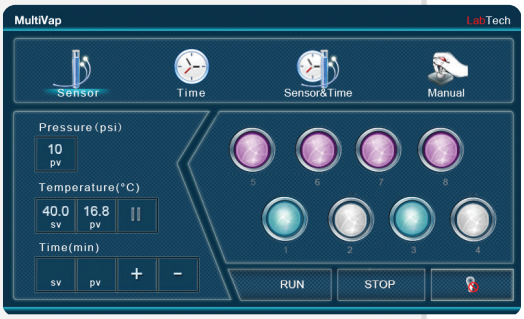
Key Features

- Vortex nitrogen purge to obtain the highest concentration efficiency
- Operations visible through the backlit front window
- Sealed concentration chamber with the highest efficient vapour exhausting system
- Built-in digital nitrogen gas regulator to control the nitrogen flow and the evaporation speed
- Automatic detection of the liquid sample end-point
- 8 positions supporting 50 & 200ml concentration cups simultaneously
- 8 infrared sensors for single cup volume control
- Compatible with GPC/SPE instrument
- Low liquid level and pressure alarms to ensure safe operations
- Touch screen control interface

Design Highlights

User Friendly Interface

- Full color touch screen control panel
- Easy navigation through screens including “Sensor”, “Time”, “Sensor & Time” and “Manual Mode”.

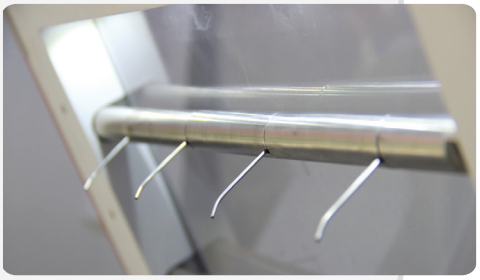


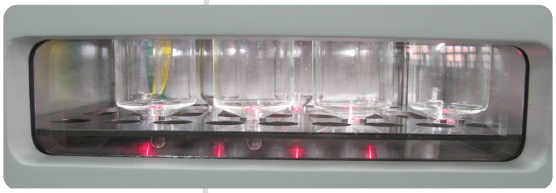
Eight Channel Concentration

- Eight sample channels with any combination
- Stop/start, add/remove at any time during evaporation process
- 200ml and 50ml concentration cups can be used simultaneously

Vortex Nitrogen Purging

- The position and direction of nitrogen tubes is easily adjusted
- Weld-free stainless steel nozzle minimizes sample residue and eliminates corrosion





Safe and Convenient

- Auto stop when cover is open
- Resumes automatically after closing the cover
- Concentration process is visible through window in front of instrument
- Fast-plug bath drain outlet for easy cleaning

Comprehensive line of Racks and Tubes

- Different concentration cups can be selected
- Cup racks are compatible to GPC and SPE so sample can be concentrated directly in the cup without transfer

Sample	Sample Concentration	Vapor Pressure	Solvent	Temp	Recovery Rate	Comment
Imidacloprid	4 mg/l	0.2×10^{-6}Pa(20℃)	Acetonitrile	40℃	105%	pH5-11 Stable
Bensulfuron Methyl	2 mg/l	1.733×10^{-3}Pa (20℃)	Acetonitrile	40℃	96%	Alkalescency (pH=8) , broken down slowly in acidic solution
Methanidophos	2 mg/l	0.4Pa(30℃)	Methanol	40℃	89%	Easy to hydrolyze in strong alkaline solution. Speed up the decomposition with the temperature rise over 100 celcius degree. Completely decomposition over 150 celcius degree
				25℃	84%	
Metronidazole	2 mg/l	3.56×10^{-11}Pa(25℃)	Methanol	40℃	88%	White or milk white crystalline powder. Melting point at 160 celcius degree
Fenpropathrin	2 mg/l	1.33×10^{-3}Pa (20℃)	Acetonitrile	40℃	101%	Slow hydrolysis in weak acid and weak alkaline solution, easy hydrolysis in strong alkaline solution. Speed up the decomposition with the temperature rise over 100 celcius degree. Completely decomposition over 150 celcius degree. light and heat makes it easy to decompose
Cyhalothrin	2 mg/l	2.67×10^{-10}Pa(20℃)	Acetonitrile	40℃	103%	
Deltamethring	2 mg/l	2×10^{3}Pa(20℃)	Acetonitrile	40℃	104%	
Fenvalerate	2 mg/l	3.5×10^{-11} Pa(20℃)	Acetonitrile	40℃	102%	
Permethring	2 mg/l	4.53×10^{-5}Pa (25℃)	Acetonitrile	40℃	102%	
Sulfadiazine	0.4 mg/l	1.33×10^{-3}Pa (20℃)	Acetonitrile	40℃	101%	Perishable under light. Keep in dark
Sulfamonomethoxine	0.4 mg/l	2.67×10^{-10}pa(20℃)	Acetonitrile	40℃	89%	
Sulfamethazine	0.4 mg/l	2×10^{3}Pa(20℃)	Acetonitrile	40℃	100%	
Sulfamethoxazole	0.4 mg/l	3.5×10^{-11} Pa(20℃)	Acetonitrile	40℃	100%	
Sulfaquinoxaline	0.4 mg/l	4.53×10^{-5}Pa (25℃)	Acetonitrile	40℃	108%	