



# LabTech

## *M10 Automated Parallel Concentrator*

### Main Applications:

- Chemistry
- Environmental organic analysis
- Food Analysis
- Forensic medicine
- Geochemistry
- Organic analytical chemistry



## M10 Automated Parallel Concentrator

The M10 Automatic Parallel Concentration System increases 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.

The M10 Automated Concentrator is a compact solution compared to conventional rotary evaporators in , with the possibility to be used outside fume hood, thanks to the integrated vapor exhausting system.

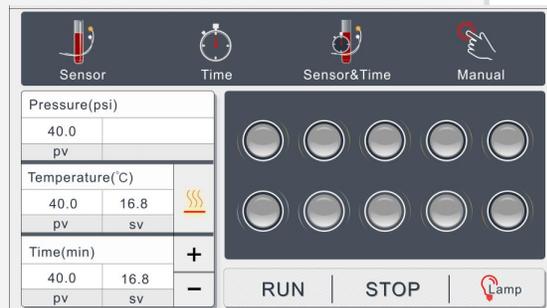
### Key Features

- Vortex nitrogen purge to obtain the highest concentration efficiency
- Operations are visible through the backlit front window
- Sealed concentration chamber with the highest efficiency vapor 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
- 10 positions supporting 50 & 200ml concentration cups simultaneously
- 10 infrared sensors for single cup volume control
- Compatible with GPC/SPE instruments
- 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
- Easily navigate through screens including “Sensor”, “Time”, “Sensor & Time” and “Manual Mode”.



### Ten Channels - High Sample Throughput

- Ten sample channels
- Stop/start, add/remove samples 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 nozzles minimize 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 and used interchangeably.
- 0.5 mL, 1 mL and dry end point options
- Cup racks are compatible to GPC and SPE so samples can be concentrated directly in the vessels without need to transfer.



## Included

- 10 - 200 mL concentration vials -1 mL end point
- 10 - 50 mL concentration vials -1 mL end point
- 1 - 200 mL rack - 10 positions
- 1 - 50 mL rack - 10 positions
- 1 Exhaust fume tube 3 m
- 1 Electric power cable
- 10 Plastic vapor stoppers for 200 mL holes
- 10 Plastic vapor stoppers for 50 mL holes

Sample	Sample Concentration	Vapor Pressure	Solvent	Temp	Recovery Rate	Comment
Imidacloprid	4 mg/l	$0.2 \times 10^{-6}$ Pa (20°C)	Acetonitrile	40°C	105%	pH5-11 Stable
Bensulfuron Methyl	2 mg/l	$1.733 \times 10^{-3}$ Pa (20°C)	Acetonitrile	40°C	96%	Alkalescency ( pH=8 ) , broken down slowly in acidic solution
Methanidophos	2 mg/l	0.4 Pa (30°C)	Methanol	40°C	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°C	84%	
Metronidazole	2 mg/l	$3.56 \times 10^{-11}$ Pa (25°C)	Methanol	40°C	88%	White or milk white crystalline powder. Melting point at 160 celcius degree
Fenproprathrin	2 mg/l	$1.33 \times 10^{-3}$ Pa (20°C)	Acetonitrile	40°C	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	$2.67 \times 10^{-10}$ Pa (20°C)	Acetonitrile	40°C	103%	
Deltamethring	2 mg/l	$2 \times 10^3$ Pa (20°C)	Acetonitrile	40°C	104%	
Fenvalerate	2 mg/l	$3.5 \times 10^{-11}$ Pa (20°C)	Acetonitrile	40°C	102%	
Permethring	2 mg/l	$4.53 \times 10^{-5}$ Pa (25°C)	Acetonitrile	40°C	102%	
Sulfadiazine	0.4 mg/l	$1.33 \times 10^{-3}$ Pa (20°C)	Acetonitrile	40°C	101%	Perishable under light. Keep in dark
Sulfamonomethoxine	0.4 mg/l	$2.67 \times 10^{-10}$ pa (20°C)	Acetonitrile	40°C	89%	
Sulfamethazine	0.4 mg/l	$2 \times 10^3$ Pa (20°C)	Acetonitrile	40°C	100%	
Sulfamethoxazole	0.4 mg/l	$3.5 \times 10^{-11}$ Pa (20°C)	Acetonitrile	40°C	100%	
Sulfaquinoxaline	0.4 mg/l	$4.53 \times 10^{-5}$ Pa (25°C)	Acetonitrile	40°C	108%	

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