

A close-up photograph of the Lab Tech MV5 Automated Parallel Concentrator. The device features a white top panel with the 'Lab Tech' logo in red and black. A prominent silver handle is attached to the side. Below the handle, a row of clear glass tubes is visible, each containing a small amount of liquid. To the right, a digital touchscreen interface displays various parameters in a light blue font, including 'Method: diaeo', 'Sample: aqua', 'Solvent: esano', 'Tube Size: Diameter 10cm', 'Temperature: 20', 'Pressure: 11', 'Interval: 0.0', and 'Timer:'. The overall design is sleek and professional, typical of laboratory equipment.

**Lab Tech**

## ***MV5 Automated Parallel Concentrator***

### **Main Applications:**

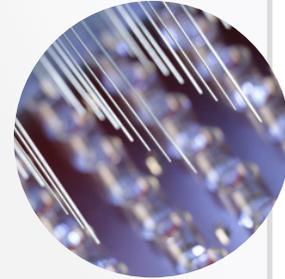
- **Chemistry**
- **Environmental organic analysis**
- **Pharmaceutical Analysis**
- **Forensic medicine**
- **Petroleum Analysis**
- **Organic analytical chemistry**

# MV5 Automated Parallel Concentrator

The MV5 is an automatic multi-channel and multi-functional parallel concentration instrument. The sample is heated with a water bath and purged with nitrogen. The needle level adjusts automatically and the concentration level is visible through a window with internal lighting.



## Design Highlights

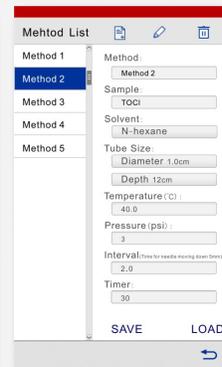


### High Throughput

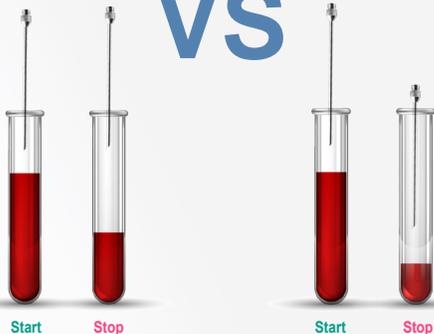
- The MV5 has 54 sample positions, which can work either individually or simultaneously
- It is flexible, convenient and easy to use
- Front window with backlighting makes for easy viewing of samples

### User Friendly Interface

- Includes 7" touch-screen control panel with real-time display
- Predefined methods with broad solvent database
- Separate control of each channel with adjustable bath temperature and gas flow rates



# VS



### Smart Evaporation

- System automatically adjusts nitrogen needle level based on sample volume.
- The process is visible with front window and internal lighting

**MV5 Saves Over  
20% of Time**



### Precision Temperature

- Precise temperature settings using a PID controller and heated water bath
- Temperature accuracy of  $\pm 0.1^{\circ}\text{C}$
- Temperature range from ambient to  $100^{\circ}\text{C}$

### Safe and Convenient

- Auto-lock mechanism
- System automatically stops when cover opened
- Resumes automatically after closing the cover
- Alert for water over fill
- Quick plug connection for ease of draining system



### Full-line of Racks and Tubes

- Variety of racks and vials available from 10ml to 200ml
- Can support GPC or SPE sample vials
- Customized racks are available

### Included

- 54 + 10 Needles for nitrogen channels
- 6 Needle O-ring seals
- 1 Spare fuse set
- 1 Exhaust fume tube 3 m
- 1 Water bath drain tube
- 1 Electric power cable
- 1 - 54 position vial rack (10 mL volume)
- 54 - 10 mL glass vials
- 54 - 10 mL PP vials
- 54 plugs to close nitrogen channels

Optional racks and tubes

Item	Tube Volume (ml)	Size (mm)	Position
1	10	$\phi 15.5 \times 80$	54
2	10	$\phi 15.5 \times 100$	54
3	20	$\phi 18 \times 135$	54
4	40	$\phi 27.5 \times 95$	24
5	50	$\phi 29 \times 115$	24
6	60	$\phi 27.5 \times 140$	24
7	60	$\phi 32 \times 120$	24
8	50	$\phi 40 \times 120$	12
9	200	$\phi 65 \times 120$	6

### Optimized Running Time

Do not know the drying time? Let us handle it!

Concentration and drying time for common solvents

Solvent	Tube Size	Start Volume	Nitrogen Pressure	Waterbath Temp (°C)	Interval of Nitrogen needle decreasing (min)	Total Time (min)
Acetone	1.5x10cm	7ml	12psi	50 C	0.7	9.5
Dichloromethane				40 C	1	11
N-hexane				60 C	0.3	4.5
Methanol				60 C	1	12.8
Ethyl acetate				65 C	0.6	7.6
Acetonitrile				65 C	1	14.2

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