



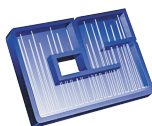
Lab Tech



MV5 Automated Parallel Concentrator

Main Applications:

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



**CHROMATOGRAPHIC
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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



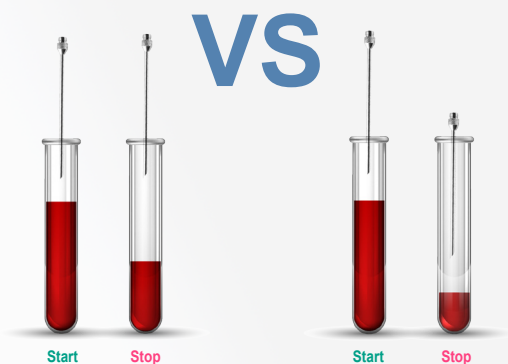
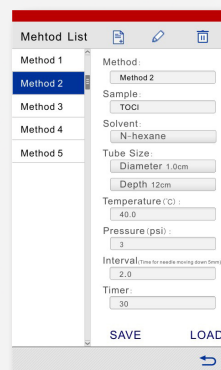
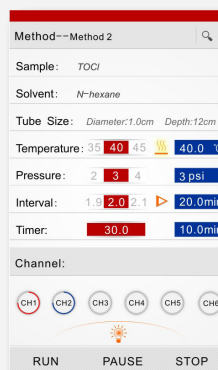
High Throughput

- The MV5 has 54 sample positions, which can work either individually or simultaneously
- Front window with backlighting makes for easy viewing of samples



User Friendly Interface

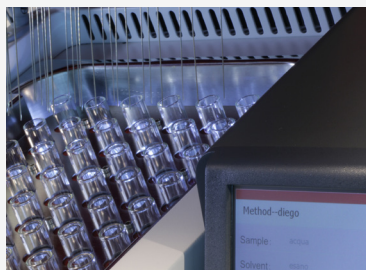
- Includes 7" touch-screen control panel with real-time display
- methods with broad solvent database
- Separate control of each channel with adjustable



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

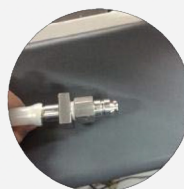


Precision Temperature

- 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°C

Safe and Convenient

- Auto-lock mechanism
- System automatically stops when cover opened
- Resumes automatically after closing the cover
- 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

LabTech, Inc.

114 South Street, Hopkinton, MA 01748,
 USA Tel: +1 (508) 435 5500 Fax: +1 (508) 435 5595
 Email : support@labtechus.com www.labtechus.com



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