

ADVANCED CONCENTRATION SOLUTIONS

Lab Tech



DSP  **systems**
The missing link in your laboratory!

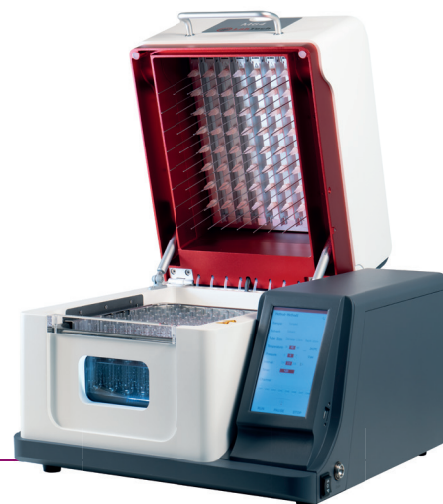
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MULTIVAP 64 AUTOMATED CONCENTRATION SOLUTION

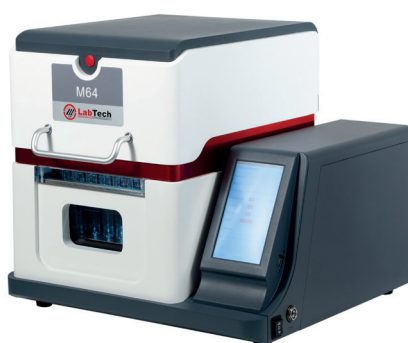
The **MultiVap 64** (also called “THE GAME CHANGER”) is the latest multi-channel and multifunctional parallel instrument designed by LabTech, including all accessories and functions to ensure the highest standard of efficiency, speed, reliability, throughput and safety of any concentration process.

Nitrogen sweeping, needle level adjustment and visible concentration process are only few of the advantages offered by the MultiVap 64.



TECHNICAL FEATURES

- 8 channels of 8 needles each (for a total of 64 samples of 10 ml) able to work either individually or simultaneously
- Automatic adjustment of nitrogen needle according to the sample volume reduction
- Visible concentration process thanks to the front window and internal lights
- Auto-locked cover during operations
- Easy replacement of nitrogen needles
- 7" touch-screen color control panel
- Low-level liquid alarm
- Intuitive software interface
- Liquid bath heating mode
- Temperature control: P.I.D.
- Temperature range: ambient to 100°C
- Nitrogen requirement: from 2 to 6.8bar (30 to 100 psi)
- Weight: 30kg
- Dimensions: (LxWxH cm)
50x50x69 (open)
50x50x45 (closed)
- Power supply voltage: 230V 50/60Hz



Included

- N° 64 + 10 Needles for nitrogen channels
- N° 8 Needle O-ring seals
- N° 1 Spare fuse set
- N° 1 Exhaust fume tube 3m
- N° 1 Water bath drain tube
- N° 1 Electric power cable
- N° 1 - 64 position vial rack (10ml volume)
- N° 100 - 10ml glass vials
- N° 100 - 10ml PP vials
- N° 64 plugs to close nitrogen channels

Ordering information US-MP6000

ACCESSORIES

P/N	DESCRIPTION	P/N	DESCRIPTION
MV6-SP02	Rack for 2ml GC Vials (64 positions)	MV6-SP50	Rack for 50ml vials (48 positions)
MV6-SP10	Rack for 10ml vials (64 positions)	MV6-SP40	Rack for 40ml vials (48 positions)
MV6-SP15	Rack for 15ml vials (64 positions)	-	Rack for customized vials

Specially designed tube racks available

MULTIVAP 12 AUTOMATED CONCENTRATION SOLUTION

The NEW LabTech **MultiVap 12** automatic parallel system increases the capacity by 20% in comparison to the MultiVap 10 boosting the lab throughput. The price / performance ratio has further increased. With this system it is possible to evaporate to solid state or concentrate into a fixed end-point volume.

A compact solution compared to conventional rotary evaporators, with the possibility to be used outside the fume hood thanks to the integrated vapor evacuation system.



TECHNICAL FEATURES

- Vortex nitrogen purge to get the highest concentration efficiency. The location and direction of nitrogen purge can be adjusted according to the concentration cup size and sample volume
- Operations are visible through the backlit front window. Sample cups do not need to be handled to check the residual volume
- Concentration chamber including a highly efficient vapour exhausting system
- Built-in digital nitrogen gas regulator to control the nitrogen flow and the evaporation speed
- Automatic detection of the liquid endpoint
- Special gradient pressure control with 3 control modes: constant, step, and ramp
- 12 positions supporting 50 & 200ml concentration cups simultaneously
- 12 Far-IR sensors for single cup volume control
- Specially gradient pressure regulation with 3 control modes: constant, step and ramp
- Liquid bath with temperature control range from ambient to 90°C
- Low liquid level and pressure alarms to ensure safe operations
- Touch screen control interface
- Nitrogen requirement: from 3 to 6 bar (43 to 87 psi)
- Weight: 39kg
- Dimensions: (LxWxH cm)
44x78x64 (open)
44x78x35 (closed)
- Power supply voltage: 230V 50/60Hz

Included

- N° 12 - 200ml concentration vials - 1 ml end point
- N° 12 - 50ml concentration vials - 1 ml end point
- N° 1 - 50ml rack - 12 positions
- N° 1 - 200ml rack - 12 positions
- N° 1 Exhaust fume tube 3m
- N° 1 Electric power cable
- N° 12 Plastic vapor stoppers for 50ml holes
- N° 12 Plastic vapor stoppers for 200ml holes

Ordering information LV-MT12200

ACCESSORIES

P/N	DESCRIPTION	P/N	DESCRIPTION
MT-C20005/10	200ml concentration vial - 0.5 & 1ml end point	MT-C5005/10	50ml concentration vial - 0.5 & 1ml end point
MT-C20000	200ml concentration vial - dry end point	MT-C5000	50ml concentration vial - dry end point
MT-BC200-12	Rack for 200ml vials (12 positions) - Stainless Steel	MT-BC50-12	Rack for 50ml vials (12 positions) - Stainless Steel
MT-AD05/10	Vial adaptor for 0,5ml end point including O-ring Suitable for MT-C20005/10 & MT-C5005/10 vials		

MULTIVAP 6 CONCENTRATOR BASIC SOLUTION

The **MultiVap 6** is a basic, cost effective sample preparation instrument featuring 6 independent channels. Without transferring, samples are directly concentrated in the vial thereby reducing the risk of transfer loss, improving recovery and saving precious time.

The nitrogen flow rate of each channel can be adjusted independently as well as the needles that can be adjusted up and down.

The aluminum alloy heating block guarantees temperature uniformity for all samples.



TECHNICAL FEATURES

- Possibility to run up to 6 samples of 40ml
- Parallel concentration model
- Possibility to simultaneously or separately work with six channels
- Nitrogen blow in combination with heating concentration mode
- Dry block heating technology to avoid potential water vapor interference
- P.I.D. temperature control with digital display
- Possibility to choose the best position of nitrogen needles to ensure the most efficient evaporation
- Dedicated nitrogen flow regulator for each sample channel
- Compatibility with collection vials of Sepaths UP
- Unique “open view” to control the sample volume level during the evaporation process
- Temperature range: ambient to 120°C
- Gross Weight: 8kg
- Dimensions: (LxWxH cm) 13x35x20
- Power supply voltage: 230V 50/60Hz

Included

- N° 6 - 40ml Collection bottles
- N° 1 - 220V Power Cord
- N° 1 Two-way connector O.D4mm/O.D6mm
- N° 1 PU Tubing O.D4mm, 2m
- N° 1 PU Tubing O.D6mm, 2m
- N° 6 Nitrogen needles
- N° 1 Flange tool

Ordering information U-SP9005-C01

ACCESSORIES

P/N	DESCRIPTION	P/N	DESCRIPTION
LVS40C-ET	40ml sample collection vial - flat bottom	AWZ7P0	Aluminium block Tube sizes 2ml (12mm OD) & 16x100mm
Y02060017	40ml Graduated collection vial - 1ml end point (1pz)		
B4VRS0	Aluminium block - Tube sizes 15mm & 22mm OD	AWZ7Q0	Aluminium block Tube sizes 2ml (12mm OD) & 16x100mm
AWZ7M0	Aluminium block - Tube size 18mm OD		

Specially designed adapters available

MULTIVAP 96 SOLUTION FOR MICROPLATES

MultiVap 96 nitrogen evaporator for microplates features simple operation, practical and reliable performance. It is designed for sample concentration with high throughput e.g. sample preparation in drug screening, hormone analysis, liquid chromatography, and mass spectrometry.

The operation interface is equipped with intuitive LCD touch screen for functions of temperature and time setting, real-time display and method program setting.



TECHNICAL FEATURES

- Possibility to run up to 96 positions
- Advanced direct nitrogen heating technique with higher efficiency than the bottom dry block heating mode. Heating uniformity is greatly improved and heating time is faster
- Touch display with intuitive operation interface for fast control of temperature, time and flowrate
- 4 program methods can be saved and loaded easily
- Adjustable height of the 96-well plate holder
- Auto-lift up/down of the 96-well plate ensures convenient and practical operation
- The nitrogen needles are removable for easy cleaning
- Nitrogen purge pressure and flowrate can be adjusted according to the requirements of different samples
- Timer range: 1 ~ 9999min
- Gas flowrate: 0 ~ 20l/min
- Temperature range: ambient to 80°C
- Temperature control accuracy: $\pm 3^{\circ}\text{C}$
- Weight: 11kg
- Dimensions: (LxWxH cm) 16,9x33,8x37,1
- Power supply voltage: 230V 50/60Hz

Included

- N° 1 $\text{\O}6\text{-}\text{\O}8$ Gas line adapter
- N° 1 $\text{\O}6$ tube (3m)
- N° 1 Pressure regulator
- N° 1 Power cord
- N° 4 Spare gas needles



Ordering Information US-MP9000

MAIN APPLICATIONS

- » **Chemistry**
- » **Environmental organic analysis**
- » **Food**
- » **Forensic medicine**
- » **Geochemistry**
- » **Organic analysis**
- » **Organic analytical chemistry**
- » **Petroleum analysis**

LabTech

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LabTech, your reliable laboratory solution provider.

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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