

# *From Sample to Vial*

Automated Sample Prep Solutions

Extraction • Cleanup • Concentration



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# SuperVap® Family of Automated Direct-to-Vial Concentration and Evaporation

The SuperVap® Small Volume is a standalone automated direct-to-vial concentration system that replaces older, manual techniques such as KD, nitrogen blow down and water baths. The SuperVap Small Volume direct-to-vial concentration system is designed to simplify, improve and increase laboratory productivity by automating the manual steps in your sample evaporation/concentration process. It automates the time consuming steps involved in manual sample concentration, lowers labor costs and eliminates errors.

The SuperVap concentrator sets a new standard for automating rapid sample evaporation and concentration for producing consistent, reliable results. The SuperVap automated concentration system is ideal for the analysis of pesticides, herbicides, persistent organic pollutants, PCBs



*Automatic time-based or endpoint detection for nitrogen shut off for each vessel*



*Sample sizes from 1ml to 50ml*

*Measurements-Concentration/Evaporation Vessels in 500 µL, 1ml, and direct-to-a GC Vial or to dryness*

*Concentrates up to 12 20ml, 40ml, 60ml vials or 50ml concentration vessels with tips.*

*Concentrates up to 24 2ml or 4ml vials.*



*HEPA/carbon filter eliminates outside contamination*

*Uses no water, dry heating assembly makes solvent recovery simple*



# SuperVap® 6 250ml

The SuperVap® system is an automated, standalone, direct-to-vial concentrator that replaces older techniques such as KD, nitrogen blow down and water baths. By automating what were once manual evaporation and concentration processes, the SuperVap concentration system accelerates your sample throughput, lowers labor costs, and improves the consistency of your results by eliminating the variability inherent in manual sample prep procedures.

The SuperVap concentrator sets new a standard for consistency, speed, and reliability of results for an automated sample evaporation and concentration system. It is ideal for the analysis of pesticides, herbicides, Persistent Organic Pollutants (POPs), PCBs, PAHs, pharmaceutical byproducts, and personal care byproducts as well as many other applications. The programmable SuperVap concentrator is a dry, waterless concentrator that can preheat as well as ramp up to final temperature. It automatically senses when the extract is being delivered to each vessel, starts the blow down and then shuts off the nitrogen when final volume is achieved. The concentrated samples are then automatically transferred directly to a vial, eliminating the errors that occur during manual transfer.



## **Easy-to-Use**

The SuperVap concentration system uses a touch screen display for programming, storing, and running methods. Real-time plotting of temperature readings are displayed throughout the process. Simply touch a point on the plot and instantly see the temperature of that point.

## **Reduces Errors**

The SuperVap system performs the entire evaporation and concentration process, automatically, delivering consistent, reproducibly high recoveries for all analytes. Unattended operation of the sample prep process saves time, reduces labor costs, glassware and solvents.

## **High Recovery of All Analytes**

The SuperVap system provides direct-to-vial concentration with automatic endpoint detection and Nitrogen shut off for each vessel

## **Uses No Water**

Uses a robust waterless, dry bath with no electronics submerged in water. It easily and inexpensively captures solvents.

## **Concentrates up to 6 Samples**

Sample Sizes up to 250ml.

## **Compact Size**

## **Minimizes Contamination**

An integrated HEPA/Carbon filter eliminates outside contamination.

## **Inexpensive Glassware**

Economically priced vessels with 500  $\mu$ L, 1ml and direct-to-vial endpoints.

## **Fully Automated**

Automatic endpoint detection, nitrogen shutoff, and alarm for each vessel. Programmable heat ramp and nitrogen settings for precise control of the concentration and evaporation process.

## **Documentation**

Every method and run is documented and stored on the SuperVap system for easy retrieval for documentation. A temperature log for each run is also saved and may be downloaded to a PC via a USB port.

## **Stand Alone or Integrated**

The SuperVap concentrator can be easily integrated into existing FMS sample preparation systems. Integration allows for PC-based control and automatic solvent exchange.

# SuperVap® 12 50ml

The SuperVap® system is an automated, standalone, direct-to-vial concentrator that replaces older techniques such as KD, nitrogen blow down and water baths. By automating what were once manual evaporation and concentration processes, the SuperVap concentration system accelerates your sample throughput, lowers labor costs, and improves the consistency of your results by eliminating the variability inherent in manual sample prep procedures.

The SuperVap, 12 position, 50ml Direct-to-vial Evaporation/Concentration system is the ideal sample preparation solution for Solid Phase Extraction (SPE) and Pressurized Liquid Extraction (PLE) methods requiring the evaporation and concentration of liquid extracts. Typical extractions needing evaporation and/or concentration to final volume are those from drinking water, waste water, juice, milk, urine, and human serum. The system uses evaporation/concentration vessels that handle liquid extraction volumes from 1ml to 40ml with final volume tips of 500 µL or 1ml, or you can choose GC vials. The SuperVap Evaporation/Concentration system is designed to automatically evaporate and concentrate 12 samples simultaneously. Sensors detect when the end point is reached and shut off each individual position while triggering an audible alarm to alert the user.



## Easy-to-Use

The SuperVap concentration system uses a touch screen display for programming, storing, and running methods. Real-time plotting of temperature readings are displayed throughout the process. Simply touch a point on the plot and instantly see the temperature of that point.

## Reduces Errors

The SuperVap system performs the entire evaporation and concentration process, automatically, delivering consistent, reproducibly high recoveries for all analytes. Unattended operation of the sample prep process saves time, reduces labor costs, glassware and solvents.

## High Recovery of All Analytes

The SuperVap system performs the entire evaporation and concentration process, automatically, delivering consistent, reproducibly high recoveries for all analytes. Unattended operation of the sample prep process saves time, reduces labor costs, glassware and solvents.

## Uses No Water

Uses a robust waterless, dry bath with no electronics submerged in water. It easily and inexpensively captures solvents.

## Concentrates up to 12 Samples

Sample Sizes up to 50ml in a concentration vessel.

## Compact Size

## Minimizes Contamination

An integrated HEPA/Carbon filter eliminates outside contamination.

## Inexpensive Glassware

Economically priced vessels in with 500 µL, 1ml and direct-to-vial endpoints.

## Fully Automated

Automatic endpoint detection, nitrogen shutoff, and alarm for each vessel. Programmable heat ramp and nitrogen settings for precise control of the concentration and evaporation process.

## Documentation

Every method and run is documented and stored on the SuperVap system for easy retrieval for electronic documentation. A temperature log for each run is also saved and may be downloaded to a PC via a USB port.

## Stand Alone or Integrated

The SuperVap concentrator can be easily integrated into existing FMS sample preparation systems. Integration allows for PC-based control and automatic solvent exchange.

# SuperVap® 12 20ml

The SuperVap®, 12 position, 20ml vial, Evaporation/Concentration system is the ideal solution for performing the final evaporation and concentration step for solid phase extraction (SPE) and pressurized liquid extraction (PLE) (ASE) sample preparation methods. Typical extractions requiring evaporation or concentration to final volume are drinking water, waste water, juice, milk, urine, and human serum. The system uses 20ml evaporation/concentration vials that handle liquid extract volumes up to 20ml. The system is designed to automatically evaporate and concentrate 12 samples simultaneously and will shut off when the programmed end time is reached, which also triggers an audible alarm.



## **Easy-to-Use**

The SuperVap concentration system uses a touch screen display for programming, storing, and running methods. Real-time plotting of temperature readings are displayed throughout the process. Simply touch a point on the plot and instantly see the temperature of that point.

## **Reduces Errors**

The SuperVap system performs the entire evaporation and concentration process, automatically, delivering consistent, reproducibly high recoveries for all analytes. Unattended operation of the sample prep process saves time, reduces labor costs, glassware and solvents.

## **High Recovery of All Analytes**

The SuperVap system provides concentration with automatic endpoint detection and Nitrogen shut off for each vessel.

## **Uses No Water**

Uses a robust waterless, dry bath with no electronics submerged in water. It easily and inexpensively captures solvents.

## **Concentrates up to 12 Samples**

Sample Sizes up to 20ml.

## **Compact Size**

## **Minimizes Contamination**

An integrated HEPA/Carbon filter eliminates outside contamination.

## **Inexpensive Glassware**

Economically priced vessels, 20ml Vial

## **Fully Automated**

Automatic nitrogen shutoff, and alarm for vessel. Programmable heat ramp and nitrogen settings for precise control of the concentration and evaporation process.

## **Documentation**

Every method and run is documented and stored on the SuperVap system for easy retrieval for documentation. A temperature log for each run is also saved and may be downloaded to a PC via a USB port.

## **Stand Alone or Integrated**

The SuperVap concentrator can be easily integrated into existing FMS sample preparation systems. Integration allows for PC-based control and automatic solvent exchange.

# SuperVap® 12 40ml

The SuperVap® 12 position 40ml vial Evaporation/Concentration system is the ideal solution for performing the final evaporation and concentration step for solid phase extraction (SPE) and pressurized liquid extraction (PLE) (ASE) sample preparation methods. Typical extractions requiring evaporation or concentration to final volume are drinking water, waste water, juice, milk, urine, and human serum. The system uses 40ml evaporation/concentration vials that handle liquid extraction volumes up to 40ml, with final volumes between dryness and 40ml. The final volume is reached automatically by programming an end point time. The system is designed to automatically evaporate and concentrate 12 samples simultaneously and will shut off when the programmed end time is reached, which also triggers an audible alarm.



## **Easy-to-Use**

The SuperVap concentration system uses a touch screen display for programming, storing, and running methods. Real-time plotting of temperature readings are displayed throughout the process. Simply touch a point on the plot and instantly see the temperature of that point.

## **Reduces Errors**

The SuperVap system performs the entire evaporation and concentration process, automatically, delivering consistent, reproducibly high recoveries for all analytes. Unattended operation of the sample prep process saves time, reduces labor costs, glassware and solvents.

## **High Recovery of All Analytes**

The SuperVap system provides concentration with automatic endpoint detection and Nitrogen shut off for each vessel.

## **Uses No Water**

Uses a robust waterless, dry bath with no electronics submerged in water. It easily and inexpensively captures solvents.

## **Concentrates up to 12 Samples**

Sample Sizes up to 40ml.

## **Compact Size**

## **Minimizes Contamination**

An integrated HEPA/Carbon filter eliminates outside contamination.

## **Inexpensive Glassware**

Economically priced vessels in 40ml Vial

## **Fully Automated**

Automatic nitrogen shutoff, and alarm for each vessel. Programmable heat ramp and nitrogen settings for precise control of the concentration and evaporation process

## **Documentation**

Every method and run is documented and stored on the SuperVap system for easy retrieval for documentation. A temperature log for each run is also saved and may be downloaded to a PC via a USB port.

## **Stand Alone or Integrated**

The SuperVap concentrator can be easily integrated into existing FMS sample preparation systems. Integration allows for PC-based control and automatic solvent exchange.

# SuperVap® 12 60ml

The SuperVap® 12 position 60ml vial Evaporation/Concentration system is the ideal solution for the final evaporation and concentration step for ASE types of liquid sample preparation. Typical extractions requiring evaporation or concentration to a final volume are drinking water, waste water, juice, milk, urine, and human serum. The system uses 60ml vials for evaporation/ concentration and can handle liquid extract volumes up to 60ml with final volumes. The final volume is reached automatically by programming an end time. The system is designed to automatically evaporate and concentrate 12 samples simultaneously and will shut off when the programmed end time is reached, which triggers an audible alarm.



## **Easy-to-Use**

The SuperVap concentration system uses a touch screen display for programming, storing, and running methods. Real-time plotting of temperature readings are displayed throughout the process. Simply touch a point on the plot and instantly see the temperature of that point.

## **Reduces Errors**

The SuperVap system performs the entire evaporation and concentration process, automatically, delivering consistent, reproducibly high recoveries for all analytes. Unattended operation of the sample prep process saves time, reduces labor costs, glassware and solvents.

## **High Recovery of All Analytes**

The SuperVap system provides concentration with automatic endpoint detection and Nitrogen shut off for each vessel.

## **Uses No Water**

Uses a robust waterless, dry bath with no electronics submerged in water. It easily and inexpensively captures solvents.

## **Concentrates up to 12 Samples**

Sample Sizes up to 60ml.

## **Compact Size**

## **Minimizes Contamination**

An integrated HEPA/Carbon filter eliminates outside contamination.

## **Inexpensive Glassware**

Economically priced vessels, 60ml Vial.

## **Fully Automated**

Automatic nitrogen shutoff, and alarm for each vessel. Programmable heat ramp and nitrogen settings for precise control of the concentration and evaporation process.

## **Documentation**

Every method and run is documented and stored on the SuperVap system for easy retrieval for documentation. A temperature log for each run is also saved and may be downloaded to a PC via a USB port.

## **Stand Alone or Integrated**

The SuperVap concentrator can be easily integrated into existing FMS sample preparation systems. Integration allows for PC-based control and automatic solvent exchange.

# SuperVap® 24 2ml

The SuperVap® 24 position, 2ml vial Evaporation/Concentration system is the ideal solution for the final evaporation and concentration step for many sample preparation methods. The system uses 2ml vials that handle liquid extract volumes up to 2ml with final volumes to final dryness or a pre-determined volume. The final volume is achieved when the system automatically reaches the end of its programmed time. Typical extractions requiring evaporation or concentration to final volume are Metabolomics, POPs, or any extraction where a final volume manual evaporation techniques are required to finish the process. The system is designed to automatically evaporate and concentrate 24 samples simultaneously. Shut off occurs when the programmed end point time is reached which triggers an audible alarm.



## **Easy-to-Use**

The SuperVap concentration system uses a touch screen display for programming, storing, and running methods. Real-time plotting of temperature readings are displayed throughout the process. Simply touch a point on the plot and instantly see the temperature of that point.

## **Reduces Errors**

The SuperVap system performs the entire evaporation and concentration process, automatically, delivering consistent, reproducibly high recoveries for all analytes. Unattended operation of the sample prep process saves time, reduces labor costs, glassware and solvents.

## **High Recovery of All Analytes**

The SuperVap system provides concentration with automatic endpoint detection and Nitrogen shut off for each vessel.

## **Uses No Water**

Uses a robust waterless, dry bath with no electronics submerged in water. It easily and inexpensively captures solvents.

## **Concentrates up to 24 Samples**

Sample Sizes up to 2ml.

## **Compact Size**

## **Minimizes Contamination**

An integrated HEPA/Carbon filter eliminates outside contamination.

## **Inexpensive Glassware**

Economically priced vessels, 2ml GC Vials

## **Fully Automated**

Automatic nitrogen shutoff, and alarm for each vessel. Programmable heat ramp and nitrogen settings for precise control of the concentration and evaporation process.

## **Documentation**

Every method and run is documented and stored on the SuperVap system for easy retrieval for documentation. A temperature log for each run is also saved and may be downloaded to a PC via a USB port.

## **Stand Alone or Integrated**

The SuperVap concentrator can be easily integrated into existing FMS sample preparation systems. Integration allows for PC-based control and automatic solvent exchange.

# SuperVap® 24 4ml

The SuperVap® 24 position, 4ml vial, Evaporation/Concentration system is the ideal solution for performing the final evaporation and concentration step for a variety of sample preparation methods. The system uses 4ml vials that handle liquid extract volumes up to 4ml with final volumes to final dryness or a predetermined volume. The final volume is automatically achieved when the system reaches the end of its programmed time. Typical extractions requiring evaporation or concentration to final volume are Metabolomics, POPs, or any extraction where final volume manual evaporation techniques are required to finish the process. The system is designed to automatically evaporate and concentrate 24 samples simultaneously. Shut off occurs when the programmed end point time is reached which triggers an audible alarm.



## **Easy-to-Use**

The SuperVap concentration system uses a touch screen display for programming, storing, and running methods. Real-time plotting of temperature readings are displayed throughout the process. Simply touch a point on the plot and instantly see the temperature of that point.

## **Reduces Errors**

The SuperVap system performs the entire evaporation and concentration process, automatically, delivering consistent, reproducibly high recoveries for all analytes. Unattended operation of the sample prep process saves time, reduces labor costs, glassware and solvents.

## **High Recovery of All Analytes**

The SuperVap system provides direct-to-vial concentration with automatic endpoint detection and Nitrogen shut off for each vessel.

## **Uses No Water**

Uses a robust waterless, dry bath with no electronics submerged in water. It easily and inexpensively captures solvents.

## **Concentrates up to 24 Samples**

Sample Sizes up to 4ml.

## **Compact Size**

## **Minimizes Contamination**

An integrated HEPA/Carbon filter eliminates outside contamination.

## **Inexpensive Glassware**

Economically priced vessels, 4ml Vials

## **Fully Automated**

Automatic nitrogen shutoff, and alarm for each vessel. Programmable heat ramp and nitrogen settings for precise control of the concentration and evaporation process.

## **Documentation**

Automatic endpoint detection, nitrogen shutoff, and alarm for each vessel. Programmable heat ramp and nitrogen settings for precise control of the concentration and evaporation process.

## **Stand Alone or Integrated**

The SuperVap concentrator can be easily integrated into existing FMS sample preparation systems. Integration allows for PC-based control and automatic solvent exchange.

**Specifications**

|                   |                                 |
|-------------------|---------------------------------|
| Dimensions:       | 13" W x 13" D x 12" H           |
| Weight:           | 20 lbs.                         |
| Gas requirements: | Nitrogen - 20 PSI minimum       |
| Electrical input: | 110/220 Volts, 50/60 HZ         |
| Controller:       | Integrated Touch Screen Control |
| Bath:             | Dry                             |

**Ordering information**

**Concentrator and Accessories**

| Part Number   | Description                                       |
|---|---|
| <b>SuperVap-6/SC</b>  |   |
| <b>SuperVap Concentrator Standalone 6 Position with 250ml concentration tubes</b> |   |
| SVAP-TUB-200M-1000  | 250ml concentrator tube, 1ml tip                  |
| SVAP-TUB-200M-500   | 250ml concentrator tube, standard 500 µL tip      |
| SVAP-TUB-200M-GC  | 250ml concentrator tube, standard GC vial tip     |
| SVAP-UNI-TFZ  | Tefzel GC vial union                              |
| SVAP-UNI-WSR  | Teflon GC vial union washer, pack of 100          |
| SVAP-VIAL-GC  | GC vial   |
| FMS-TR-2006   | 6 Position concentrator tube rack for 250ml tube  |
| FMS-TR-2012   | 12 Position concentrator tube rack for 250ml tube |
| HEP-FIL-200   | Hepa filter                                       |
| CAR-FIL-200   | Carbon filter                                     |

|   |  |
|---|--|
| <b>SuperVap-12/SC</b>   |  |
| <b>SuperVap Concentrator Standalone 12 Position with 50ml concentration tubes</b> |  |
| SVAP-TUB-060M-1000  | 50ml concentrator tube, 1ml tip              |
| SVAP-TUB-060M-500   | 50ml concentrator tube, standard 500 µL tip  |
| SVAP-TUB-060M-GC  | 50ml concentrator tube, standard GC vial tip |

|   |   |
|---|---|
| <b>SuperVap-12/SV</b>   |   |
| <b>SuperVap Concentrator Standalone 12 Position for 20, 40, 60ml vials (no block)</b> |   |
| SVAP-BLK-12-020   | SuperVap concentrator block -12 position with 20ml concentration vials  |
| SVAP-BLK-12-040   | SuperVap concentrator block - 12 position with 40ml concentration vials |
| SVAP-BLK-12-060   | SuperVap concentrator block -12 position with 60ml concentration vials  |
| SVAP-VIA-020M-000   | 20mL concentrator vial, pack of 500                                     |
| SVAP-VIA-040M-000   | 40ml concentrator vial, pack of 500                                     |
| SVAP-VIA-060M-000   | 60ml concentrator vial, pack of 500                                     |

|  |  |
|--|--|
| <b>SuperVap-24/SV</b>  |  |
| <b>SuperVap Concentrator Standalone 24 Position for 2 &amp; 4ml vials (no block)</b> |  |
| SVAP-BLK-24-002  | SuperVap concentrator block - 24 position with 2ml concentration vials |
| SVAP-BLK-24-004  | SuperVap concentrator block - 24 position with 4ml concentration vials |
| SVAP-VIA-002M-000  | 2ml concentrator vial, pack of 100                                     |
| SVAP-VIA-004M-000  | 4ml concentrator vial, pack of 100                                     |



**In order from left to right**

- 50ml tube with tip
- 50ml tube with tip
- 40ml vial
- 20ml vial
- 2ml vial

*Easy-to-use touch screen programming*

