SuperVap Concentrator
Automated Direct to Vial Concentration and Evaporation

The SuperVap Concentrator is a dry, waterless system which is programmable. It can preheat as well as ramp up to final temperature. It automatically senses the extract being delivered to each vessel, starts Nitrogen blow down and shuts off Nitrogen when the final volume is achieved. Samples are concentrated for unattended transfer directly to a vial. Eliminating errors that occur during manual transfer.

Easy to Use:
The SuperVap uses a Touch Screen display for programming, storing and running methods. Real time plotting and display of temperature throughout the process. Simply touch a point on the plot and instantly see the temperature of that point.

Reduces Errors:
Performs the entire evaporation and concentration, automatically achieving consistent, reproducible high recoveries for all analytes. Unattended operation of the process saves labor and time reducing glassware and solvents.

High Recovery of all Analytes:
The SuperVap with Direct to Vial Concentration with automatic endpoint detection and Nitrogen shut off for each vessel, lowers labor costs and errors introduced from sample handling while increasing throughput.

Uses No Water:
Uses a robust waterless, dry bath with no electronics submerged in water, easily and inexpensively capture solvents.

Minimize Contamination:
An integrated HEPA/Carbon filter eliminates outside contamination.

Inexpensive Glassware:
Economically Priced Vessels in 500ul, 1ml and Direct to Vial.

Fully Automated:
Automatic endpoint detection, nitrogen shutoff and alarm for each vessel.

Documentation:
Every method and run are documented and stored on the SuperVap and can easily be retrieved for electronic documentation. Communicates via USB to a PC.

Stand Alone or Integrated:
The SuperVap can easily be added and integrated into existing FMS Sample Prep Systems. Integration allows for PC based control and automatic solvent exchange.
The SuperVap is a standalone Automated Direct to Vial Concentration system that replaces older techniques and instruments such as KD, nitrogen blow down and water baths. It automates existing manual evaporation/concentration processes. The SuperVap Automated Direct to Vial Concentration System is built by design to simplify, improve and increase the productivity of the laboratory by automating the manual steps in your sample evaporation/concentration process. It automates time consuming steps involved in manual sample concentration lowering labor costs and reducing errors.

Compatible with existing FMS Sample Prep Systems

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 used for the analysis of Pesticides, Herbicides, Persistent Organic Pollutants, PCBs, PAHs, Pharmaceutical by-products, and Personal care by-products as well as many other applications.

**Specifications**

**SuperVap**

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: Touch Screen

Bath: Dry

- HEPA/Carbon Filter
- HEPA/Carbon Filter to Eliminate Outside Contamination
- Easy to Use Touch Screen Programming
- Programmable Heat Ramp and Nitrogen Settings to Precisely Control the Concentration and Evaporation Process
- A temperature log is saved for each run and may be downloaded to a PC via a USB port

- Automatic Endpoint Detection and Nitrogen Shut Off for each vessel
- Concentrates up to 6 Samples
- Sample Sizes up to 220 ml
- Compact Size

**Measurements** - Concentration / Evaporation vessels in 500ul, 1ml, and Direct to a GC Vial

**Uses No Water, Dry heating assembly makes solvent recovery simple**
Applications

For the analysis of
- Agricultural
- Clinical
- Environmental
- Chemical Products
- Food and Beverage
- Pharmaceutical and Natural Products
- PetroChemical

Automated Sample Preparation
Consumables

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>PVAP-TUB-GC</td>
<td>Concentrator Tubes Standard - GC</td>
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<td>PVAP-VIA-GC</td>
<td>GC Vial</td>
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<td>PVAP-UNI-GC</td>
<td>GC Vial Union</td>
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<td>PVAP-TUB-1ml</td>
<td>250ml Concentrator tubes 1 ml tip</td>
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<td>PVAP-TUB-500ul</td>
<td>250ml Concentrator tubes 500 ul tip</td>
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<tr>
<td>PVAP-FLT-HC</td>
<td>Hepa/Carbon Filter</td>
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Accessories

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>PVAP-USB-CB</td>
<td>USB Communications Cable</td>
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<tr>
<td>PVAP-EXH-PE</td>
<td>Exhaust tube</td>
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<tr>
<td>PVAP-CVR-TFE</td>
<td>Concentrator tube cover</td>
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<td>PVAP-RAC-15ml</td>
<td>Rack for 15 ml Conical tubes</td>
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<td>PVAP-RAC-GVC</td>
<td>Rack for 11 mm GC Vials</td>
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<td>PVAP-RAC-60ml</td>
<td>Rack for 17 x 60 mm Vials</td>
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<tr>
<td>PVAP-RAC-100ml</td>
<td>Rack for 16 x 100 mm Vials</td>
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<tr>
<td>PVAP-RAC-200ml</td>
<td>Rack for 250 ml Concentrator tubes</td>
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<tr>
<td>PVAP-STA</td>
<td>Standalone SuperVap</td>
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<tr>
<td>PVAP-INTG</td>
<td>Integrated SuperVap</td>
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Total Solution Sample Prep

PLE® Pressurized Liquid Extraction

SPE Solid Phase Extraction

SuperVap Concentration

TRP System Total Rapid Prep

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