

TurboVap[®] II

Evaporation System

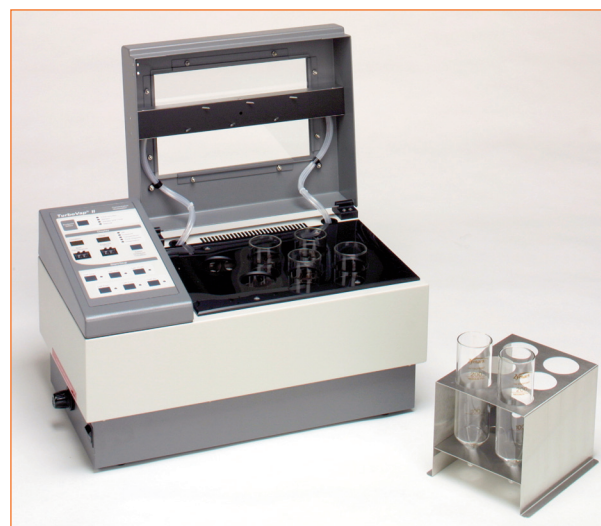
Fast, Simple Convenient increasing capacity and sample throughput

The TurboVap II Evaporation System provides a fast, simple to use automation for your evaporation needs in a convenient benchtop design. The system eliminates concentration bottlenecks in laboratories by increasing capacity and sample throughput whilst maintaining quality and lowering costs. The TurboVap II Evaporation System allows efficient concentration of samples prior to analysis by LC/MS/MS and other analytical instruments.

Features and Advantages

- Small Footprint
 - Requires less bench space
- Patented Sensor Endpoint
 - No Monitoring Required
- One Piece of Glassware in Either 50 or 200 mL Size
 - Allows for rapid set up and safer handling of glass ware
- User Friendly Displays and Diagnostics
 - Saves time
- Controlled Water bath is Adjustable from Ambient to 99 °C
 - Allows for accurate temperature control to reduce loss of volatile compounds
- Unattended High Throughput with 6 Positions
 - Increased lab productivity
- Gas Flow Control Adjustable from 4-25 psi
- Patented Vortex Shearing Technology
 - Efficient evaporation
- Dionex ASE Compatible Configurations Available

The TurboVap II Evaporation System with its minimal glassware handling no bumping and fewer transfer steps is safer than using manual methods. The workstation allows fast evaporation rates saving costs for the user (Table 1). In addition, only one piece of glassware allows for a rapid setup compared with other concentration methods.



Operate Faster and Save Costs

Table 1. Unattended Evaporation Rates

Solvent	Volume (mL)	Estimated Time to Concentrate to 1 mL*
Methylene Chloride	180	30
Hexane	180	23
Methanol	180	70
Acetone	180	27

*Temperatures between 42 °C - 60 °C

The Technology

The TurboVap II Evaporation System is a microprocessor controlled system that provides unattended, efficient, safe and automated sample evaporation. The system is ideal for evaporation of volumes up to 200 mL. The six position concentrator uses a patented gas vortex shearing action and optical sensors to provide fast and efficient evaporation of organic solvents. Units may be configured to accommodate either 50 mL or 200 mL glassware with either 0.5 mL or 1.0 mL

endpoint stems. Evaporation automatically stops at fixed endpoints and the system signals when sample is ready. This allows for concentration of compounds without the risk of drying. The instrument takes up only a fraction of the bench space used by conventional rotary evaporators and can be used outside a fume cupboard by using the integral vent hose.

Key Applications

TurboVap Evaporation Systems are used world wide. The main application areas for the TurboVap II are food, water, soil and environmental solvent extraction. For solvent extracts in hexane, dichloromethane, acetonitrile and methanol, Biotage recommend a temperature of 40 °C to minimize thermal degradation and loss of volatile compounds by allowing cool gas to condense components, while offering a rapid removal of solvent.

Available TurboVap II Configurations

200 mL Configuration

- Six 200 mL Tubes
- Convenient for Standard Environmental Applications

50 mL Configuration

- Six 50 mL Tubes
- Convenient when Working with Volumes Consistently under 50 mL

The ASE Compatible Series

- Compatible with 40 mL nipple end point glassware

System Dimensions: Height 12" (30.5 cm) Width 21.2" (53.8 cm) Depth 12" (30.5 cm)

Ordering Informaton

Part Number	Description
C103186	TurboVap II, 200 mL with 0.5 mL Endpoint Stem, 120 V*
C103187	TurboVap II, 200 mL with 1.0 mL Endpoint Stem, 115 V*
C103188	TurboVap II, 50 mL with 0.5 mL Endpoint Stem, 110 V*
C103189	TurboVap II, 50 mL with 1.0 mL Endpoint Stem, 110 V*
C103190	TurboVap II, 200 mL with 0.5 mL Endpoint Stem, 220 V*
C103192	TurboVap II, 200 mL with 1.0 mL Endpoint Stem, 220 V*
C103193	TurboVap II, 50 mL with 0.5 mL Endpoint Stem, 220 V*
C103194	TurboVap II, 50 mL with 1.0 mL Endpoint Stem, 220 V*
C103196	TurboVap II, 40 mL Dionex ASE Vial Compatible, 110 V*
C103197	TurboVap II, 40 mL Dionex ASE Vial Compatible, 220 V*
C42526	Evaporation Tube, 50 mL, 0.5 mL Endpoint Stem, 12/Case, TurboVap II, 50 & 200
C42527	Evaporation Tube, 200 mL, 0.5 mL Endpoint Stem, 12/Case, TurboVap II, 50 & 200
C42566	Auxiliary Rack (50 mL Evaporation Tubes), TurboVap II
C42567	Auxiliary Rack (200 mL Evaporation Tubes), TurboVap II
C45816	Evaporation Tube, 50 mL, 1 mL Endpoint Stem, 12/Case, TurboVap II
C45817	Evaporation Tube, 200 mL, 1 mL Endpoint Stem, 12/Case, TurboVap II

*Includes: set of glassware (6 resp 12 ea for 200 resp 50 mL configuration), auxiliary rack for holding tubes, 12.5' of 2" diameter duct hose, clear bath, operators manual

The Biotage TurboVap Evaporation Systems

Fast and automated sample concentrations:

TurboVap® II Evaporation System

The six position system is suitable for 50 mL or 200 mL glassware.

TurboVap® LV Evaporation System

For simultaneous concentration of up to 50 samples for volume samples ranging from 1.5 mL to 30 mL.

TurboVap® 96 Evaporation System

For simultaneous concentration of 96-well microplates or deep well plates.

TurboVap® 500 Evaporation System

A closed cell system with two position unit that accommodates 500 mL vessels. Solvent recovery using a condenser system is provided.

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