

DryVap®

Dry Compounds Only Minutes Away



Why spend hours using traditional evaporation techniques when the automated evaporation capability of the DryVap® System can take your compound to dryness in minutes? Through the precise application of vacuum, heat and nitrogen sparge, DryVap gently and predictably evaporates all residual solvent from your compound allowing you to quickly move on to the next step.

Features

- » Six independent evaporation tubes eliminate vapor induced cross contamination.
- » Six independent time-based stations perform different methods simultaneously for increased throughput.
- » Instrument control via front panel or Windows-based software.
- » Completely sealed tubes prevent sample loss
- » A variety of evaporation tube configurations to meet your lab's needs.
- » Can handle samples from 2 mL to 250 mL.

- » Precise vacuum, nitrogen and 60 W immersion heater control ensures better run-to-run reproducibility than a rotovap.
- » Embedded thermocouple and proprietary algorithm automatically turns off heater at start of final residual solvent removal stage.
- » Final residual solvent removal stage uses gentle, pulsed heat to achieve maximum dryness of fragile compounds.
- » Automatic rinse methods enhance sample recovery and simplify cleaning of evaporation tube.
- » Fully automatic operation can be optimized for either speed or level of compound dryness.

Evaporation rates

Solvent	Evaporation Rate
Acetone	4.9 mL/min
Acetonitrile	2.8 mL/min
Ethanol	2.5 mL/min
Ethyl Acetate	4.1 mL/min
Ethyl Ether	11.7 mL/min
Hexane	7.4 mL/min
Methanol	2.5 mL/min
Methylene Chloride	6.5 mL/min
Petroleum Ether	12.5 mL/min
Toluene	12.5 mL/min

Specifications

Utility Requirements

- » Vacuum: an inert pump and regulator to maintain 1 SCFM at 15" Hg
- » Sparge gas: Nitrogen or other inert gas at 60 psi
- » Rinse solvent: Optional rinse solvent

Environmental

- » Operating Temperature: 20–40 °C
- » Storage Temperature: 10–50 °C
- » Relative Humidity: 0–90% (non condensing)
- » Altitude: 7,500 feet

Wetted Materials and Construction

- » Metals: 300 series stainless steel coated with Sulfinert®
- » Plastics, Polymers, Composites
- » Sample in contact with: PTFE, PFA, ETFE (Tefzel), UHMWPE (ultra high molecular weight polyethylene)
- » Waste in contact with: FEP tubing
- » Glass: Borosilicate glass

Physical Properties

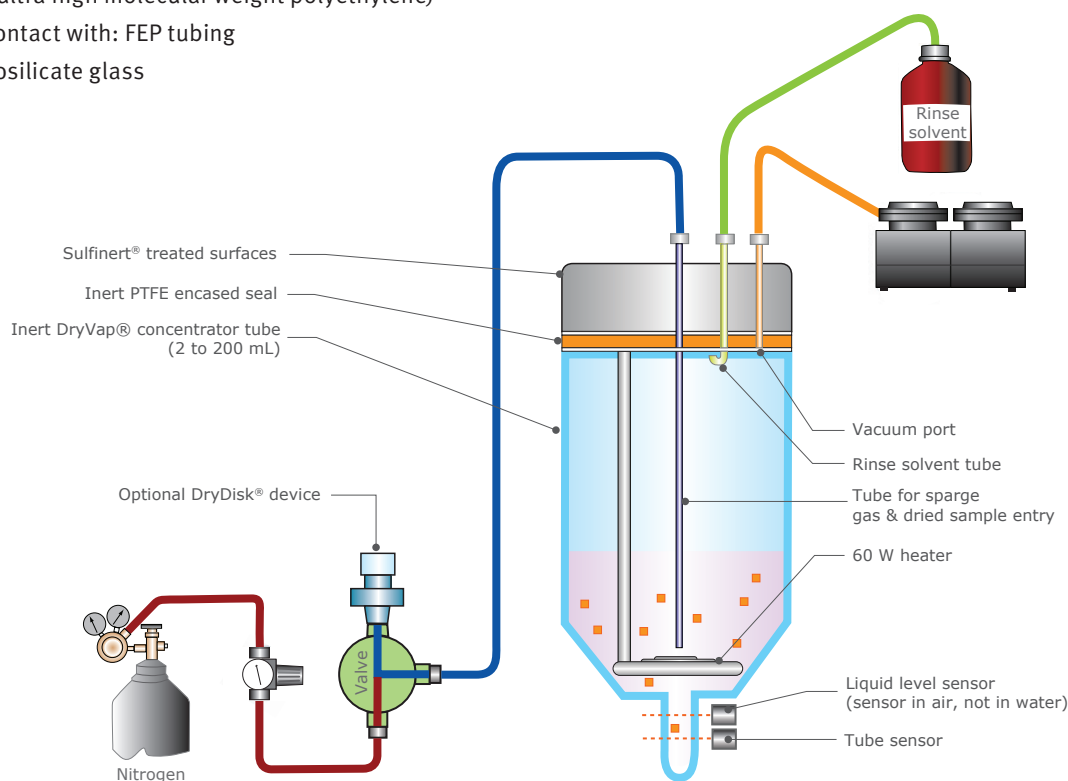
- » Maximum size (W x H x D): 27 5/8 x 18 3/4 x 17 1/4 (excluding open doors and external plumbing and accessories, i.e. power cord)
- » Weight: 82 lbs

Electrical Properties

- » Power Consumption: 340 VA (at 120 V)
- » Input Voltage: 120–240 VAC, 47–63 Hz
- » Fuse: 5 A MAXIMUM (1 Fuse, US .25 x 1.25 in.) (2 Fuses, Europe 5 x 20 mm)
- » Fuse Type: 250V, 5A, SLO BLO

Solvent Compatibility

- » Acceptable solvents: acetone, acetonitrile, ethyl acetate, hexane, methanol, methylene chloride, MTBE, and petroleum ether



EUROPE

Main Office: +46 18 565900
Toll Free: +800 18 565710
Fax: +46 18 591922
Order Tel: +46 18 565710
Order Fax: +46 18 565705
order@biotage.com
Support Tel: +46 18 56 59 11
Support Fax: +46 18 56 57 11
eu-1-pointsupport@biotage.com

NORTH & LATIN AMERICA

Main Office: +1 704 654 4900
Toll Free: +1 800 446 4752
Fax: +1 704 654 4917
Order Tel: +1 704 654 4900
Order Fax: +1 434 296 8217
ordermailbox@biotage.com
Support Tel: +1 800 446 4752
Outside US: +1 704 654 4900
us-1-pointsupport@biotage.com

JAPAN

Tel: +81 3 5627 3123
Fax: +81 3 5627 3121
jp_order@biotage.com
jp-1-pointsupport@biotage.com

CHINA

Tel: +86 21 68162810
Fax: +86 21 68162829
cn_order@biotage.com
cn-1-pointsupport@biotage.com

KOREA

Tel: +82 31 706 8500
Fax: +82 31 706 8510
korea_info@biotage.com
kr-1-pointsupport@biotage.com

INDIA

Tel: +91 22 4005 3712
india@biotage.com

Distributors in other regions
are listed on www.biotage.com

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