Horizon technology

DryVap System

Dry compounds are 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, the DryVap System gently and predictably evaporates all residual solvent from your compound allowing you to quickly move on to the next step.

Features

Six independant evaporation tubes eliminate vapor induced cross contamination.

Six independant 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 60W 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

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

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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 to 40 degrees C
Storage Temperature: 10 to 50 degrees C
Relative Humidity: 0 to 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 (Teflon), PFA (Teflon), ETFE (Tefzel), UHMWPE (ultra high molecular weight polyethylene)
Waste in contact with: FEP tubing
Glass: Borosilicate glass

Physical Properties

Maximum size (inches) – 27 5/8" wide x 18 ¾" high x 17 ¼" deep (excluding open doors and external plumbing and accessories, i.e. power cord)
Weight (lbs) – 82 lbs

Electrical Properties

Power Consumption: 340 VA (at 120V)
Input Voltage: 120-240 VAC , 47 – 63 Hz
Fuse: 5 AMP MAXIMUM (1 Fuse, US .25" X 1.25") (2 Fuses, Europe 5mm 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.