HyperVAP™

Gas Purging Evaporation Concentrator

Features

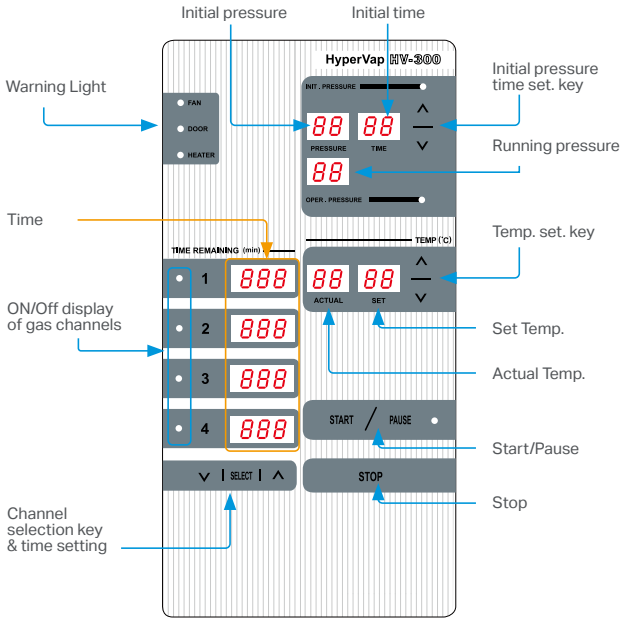
- Accelerated evaporation performance by gas purging mechanism
- Automated, programmable and reproducible
- Proprietary semi-helical gas flow mechanism to achieve the highest evaporation rate
- Diverse dimensions of nozzles and tube racks can be tailored upon customer needs
- Four independent timer settings for different solvents
- Dual-step control of gas pressure and time to prevent "bumping" of the sample on startup
- Differentiated monitoring functions: 3-side transparent glass panels, blue backlight (on/off switchable) and traffic lights
- Optimized for evaporating organic solvents including sample preparations for chromatography
- Safety features: tempered glass panels, automatic gas shutoff function, traffic lights (fan, door, heater)

Applications

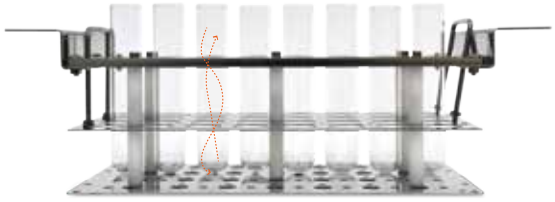
Evaporation of solvents after solid phase extraction clean-up for;

- Pharmaceutical biotech compounds
- Clinical samples
- Environmental samples
- Forensic and crime samples
- Drugs of abuse samples
- Food and beverage analysis
- Agrochemical samples

Control Panel

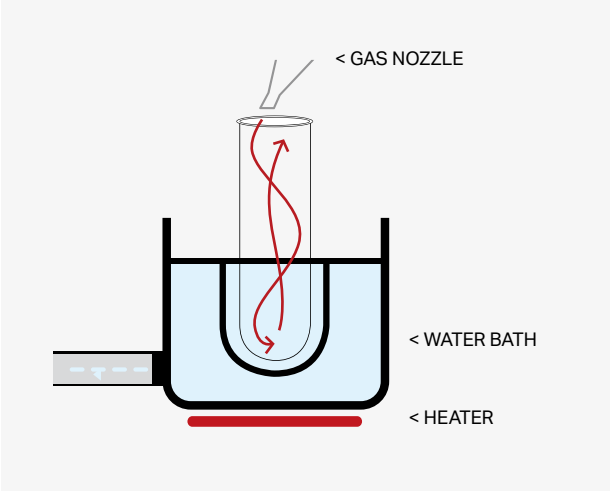


Maximizing Efficiency



Proprietary semi-helical gas flow mechanism to achieve the highest evaporation rate.

System Diagram



Gas purging accelerates the evaporation of a liquid by decreasing the partial vapor pressure of the solvent just above the liquid interface. Proprietary semi-helical gas flow mechanism to achieve the highest evaporation rate.

	40 psi	30 psi	20 psi
Hexane	1:50	2:10	3:20
Methanol	5:50	6:30	9:50
Acetonitrile	5:45	7:10	11:40
Ethanol	6:10	8:30	15:30

* Experimental Conditions (min:sec)

· Sample volume : 5 mL in 20 mL tube
· Tempzxrature : 40°C
· Gas : nitrogen gas

Technical Specifications

Number of Samples	6 ~ 32
Sample Volume (mL)	5 ~ 300 mL
Gas	Compressed air, Nitrogen, etc.
Operating Gas Pressure (psi)	Max 50 psi
Pressure Control	Automated dual-step control (initial & running pressure)
Max Time for Initial Pressure	~ 999 min
Max Time Control	~ 999 min (4 independent channels)
Individual Time Setting for Each Channel	Yes

Light On/Off	Yes
Water Bath Temperature	~ 99°C
Forced Vapor Evacuation	Yes (by fan)
Power Supply	AC 230 V, 50 Hz (AC 220-230 V, 50/60 Hz; 110 V optional)
Power Requirement	800 VA
Dimension (w x d x h)	594 x 340 x 320 mm
Weight	26.5 kg
Cat No.	Hyper-HV300 (Hyper-HV300-110)