

HyperVAP™

Gas Purging Evaporation Concentrator



HyperVAP is an automated evaporative concentrator that efficiently evaporates organic solvents by injecting inert gas into a sample under constant temperature conditions. HyperVAP, HV-300, provides ideal sample concentration that meets both efficiency and convenience based on semi-helical gas flow. Inert gas is incorporated through the nozzles inside the lid and creates semi-helical gas flow in the sample tubes to maximize the surface area for efficient vaporization. Evaporated vapor is evacuated by a fan on the back of instrument. To speed up evaporation, hot temperature can be applied from the water bath where the sample tubes are immersed into. The initial gas (air) flow can be controlled separately to avoid abrupt bumping of samples and the time setting of four nozzle channels can be managed individually to afford simultaneous operation of different amount or diverse solvent samples. HV-300 accommodates max. 32 samples by changing the nozzles and tube racks properly depending on the volume of the samples. The max. sample volume 300 ml can be concentrated in HV-300. Also, the nozzle and tube rack can be customized according to various tube size customer uses. Not only the recovery rate and time saving but you can also enjoy the minimum hands-on time and convenience of clear visibility and monitor lights.

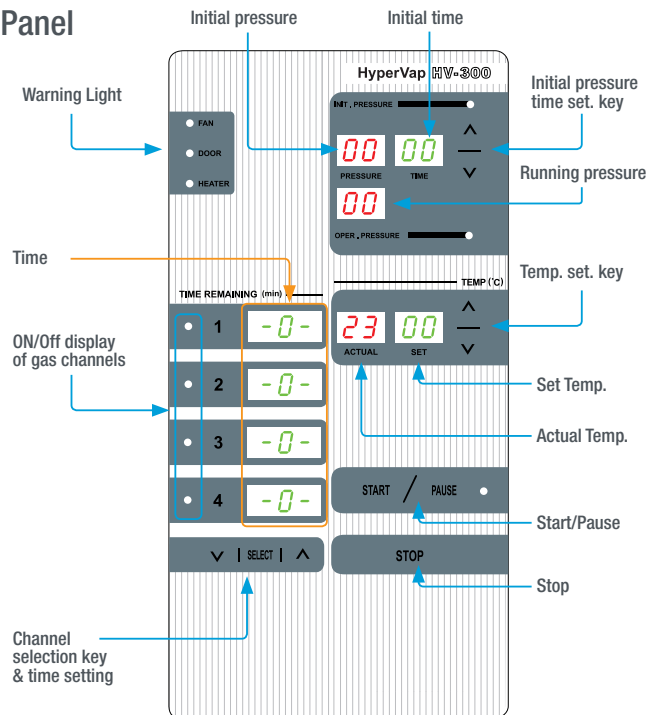
► Features

- 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)

► Technical Specifications

Model Name	HyperVap™ HV-300	
Sample Capacity	Number of Samples	6 ~ 32
	Sample Volume (ml)	5 ~ 300 ml
Gas	Compressed air, Nitrogen, etc.	
Pressure	Operating Gas Pressure (psi)	Max 50 psi
	Pressure Control	Automated dual-step control (initial & running pressure)
Max Time for Initial Pressure	~ 99 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	230 V, 50 Hz (AC 220-230 V, 50/60 Hz; 110 V optional)	
Power requirement (VA)	800	
Dimension	590 x 340 x 320 (W x D x H, mm)	
Weight	26.5 kg	
Cat. No.	Hyper-HV300 (Hyper-HV300-110)	

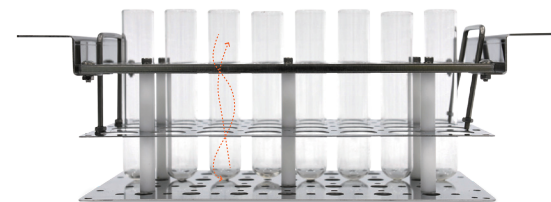
► Control Panel



► Application

- 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

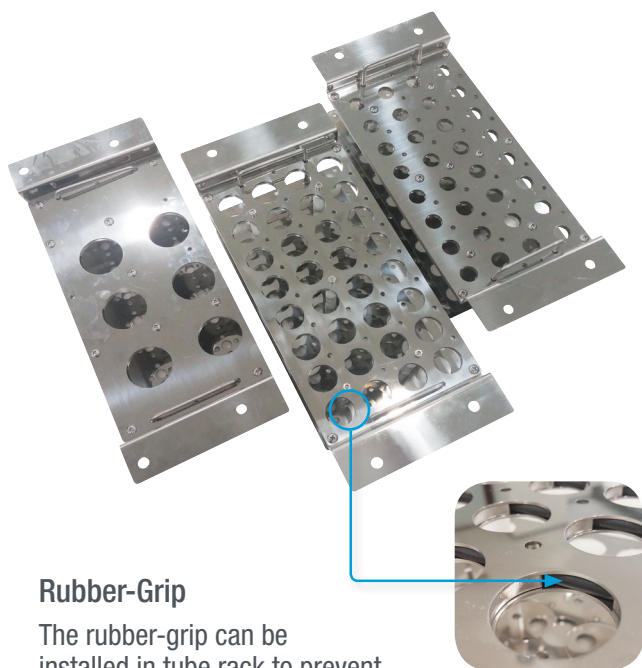
Maximizing Efficiency



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

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Rubber-Grip

The rubber-grip can be installed in tube rack to prevent movements of the tube samples during evaporation.

Tube Racks & Nozzles

980101	Tube Rack for 24 mm x 120 mm tubes (32 positions)
980102	Tube Rack for 15 mm x 70 mm tubes (32 positions)
980103	Tube Rack for 30 mm x 120 mm tubes (18 positions)
980105	Tube Rack for 38 mm x 140 mm tubes (15 Positions)
980109	Tube Rack for 16 mm x 100 mm tubes (32 Positions)
980110	Tube Rack for 72 mm x 140 mm tubes (6 Positions)
98010S	Customized Tube Rack
960201	Nozzle Assembly, 4 x 8 (32 positions)
960202	Nozzle Assembly, 3 x 6 (18 positions)
960205	Nozzle Assembly, 3 x 5 (15 position)
960206	Nozzle Assembly, 2 x 3 (6 position)
96020S	Customized Nozzles Assembly
V03VA08120-00	Nozzle cap