

Gas Purging Evaporation Concentrator

HyperVAP HV300

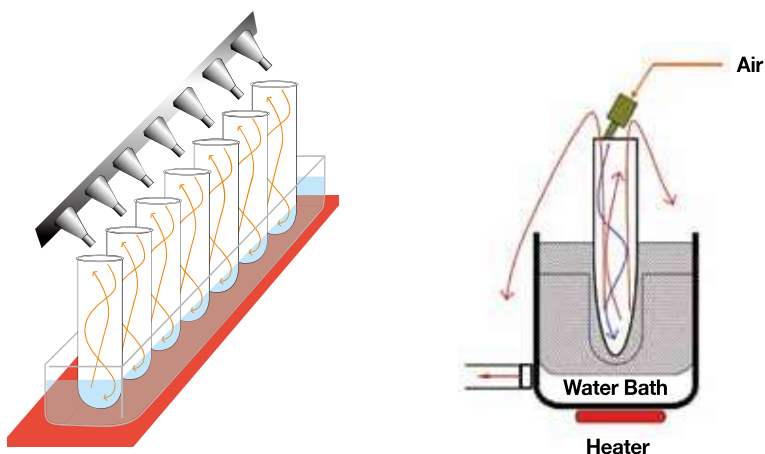
Gas Purging Evaporation Concentrator

HyperVAP™

- 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)



Maximized Evaporation by Semi-helical Air Flow (Patented)



Reference Data

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

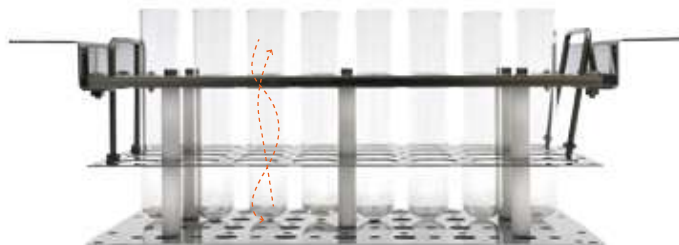
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Experimental Conditions

- Sample volume : 5 mL in 20 mL tube
- Temperature : 40°C
- Gas : nitrogen gas

Applications

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

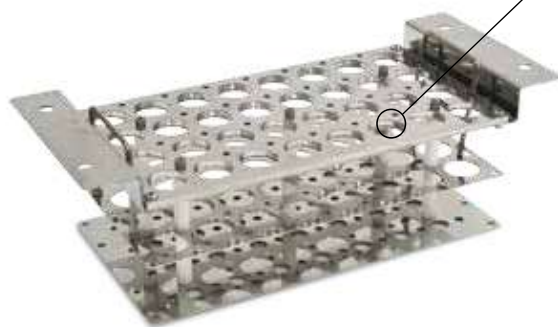


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Standard Nozzles & Racks

- 4 x 8 nozzle & a tube rack for 24 x 120 mm tubes
- 3 x 6 nozzle & a tube rack for 30 x 120 mm tubes
- 3 x 5 nozzle & a tube rack for 38 x 140 mm tubes
- 2 x 3 nozzle & a tube rack for 72 x 140 mm tubes
- Customized nozzle assembly and tube rack and optionally available



Rubber Grip

Technical Specifications

		HyperVAP
Sample Capacity	Number of Samples	6~32
	Sample Volume (mL)	1~300
Gas		Compressed air, N ₂ , etc.
Pressure	Operation Gas Pressure (psi)	15~50
	Pressure Control	Automated dual-step control (initial & operating pressure)
Max. Time for Initial Pressure (min)		~ 99
Max. Time Control (min)		~ 999 (4 independent channels)
Water Bath Temperature (°C)		~ 99
Forced Vapor Evacuation		Yes (by fan)
Power Requirement (VA)		800
Dimension (W x D x H, mm)		590 x 340 x 320
Weight (kg)		26.5

Ordering Information

Cat. No.	Description
HV-300 concentrator consists of a complete system installed with a nozzle assembly and a tube rack, incl. nozzle caps.	
HGP-300-48	HV300 with 4 x 8 nozzles assembly and a choice of a tube rack
HGP-300-36	HV300 with 3 x 6 nozzles assembly and a choice of a tube rack
HGP-300-35	HV300 with 3 x 5 nozzles assembly and a choice of a tube rack
HGP-300-23	HV300 with 2 x 3 nozzles assembly and a choice of a tube rack
Nozzle	
HGP-N48	Nozzle assembly, 4 x 8 (32 positions)
HGP-N36	Nozzle assembly, 3 x 6 (18 positions)
HGP-N35	Nozzle assembly, 3 x 5 (15 position)
HGP-N23	Nozzle assembly, 2 x 3 (6 position)
HGP-NC	Nozzle caps, 8/pk
Tube Rack	
HGP-R48-24	Tube rack for 24 mm x 120 mm (Ø x L) tubes (4 x 8 positions)
HGP-R48-16	Tube rack for 16 mm x 100 mm (Ø x L) tubes (4 x 8 positions)
HGP-R48-15	Tube rack for 15 mm x 120 mm (Ø x L) tubes (4 x 8 positions)
HGP-R36-30	Tube rack for 30 mm x 120 mm (Ø x L) tubes (3 x 6 positions)
HGP-R35-38	Tube rack for 38 mm x 140 mm (Ø x L) tubes (3 x 5 positions)
HGP-R23-72	Tube rack for 72 mm x 140 mm (Ø x L) tubes (2 x 3 positions)