

HyperVap™ HV-300

Automated Evaporation Concentrator



Features

- Fast and economic concentration through efficient control of gas inlet
- Specially designed nozzle generates semi-helical air/gas flow to make more surface area and consequently helps faster concentration
- Two step control of gas introduction
- 4 independent timer settings for the gas inlet
- Simultaneous concentration of up to 32 samples at 4 different conditions(4 x 8)
- Diverse racks available for various sizes of sample containers

Technical Specifications

Sample Capacity	
Number of samples	6~32
Sample volume	5~300 mL
Gas	Compressed air, Nitrogen, etc
Pressure	
Operating gas pressure	15~50 psi
Pressure control	Automated 2 step control(initial & operating pressure)
Time length of initial pressure	~99 min
Time control	~999 min(4 independent)
Water bath temperature	~99°C
Forced evacuation of vapor gas	Yes(by fan)
Power	220 VAC, 350 VA max
Dimension(mm)	590(w) x 340(d) x 320(h)
Weight	26.5 kg
CE marking	Yes

Available Nozzles for Tube Types

Type of nozzles	4 x 8	3 x 6	3 x 5	2 x 3
Size of tubes	24 x 120 mm 16 x 100 mm 15 x 120 mm 15 x 70 mm	30 x 120 mm	38 x 140 mm	72 x 140 mm

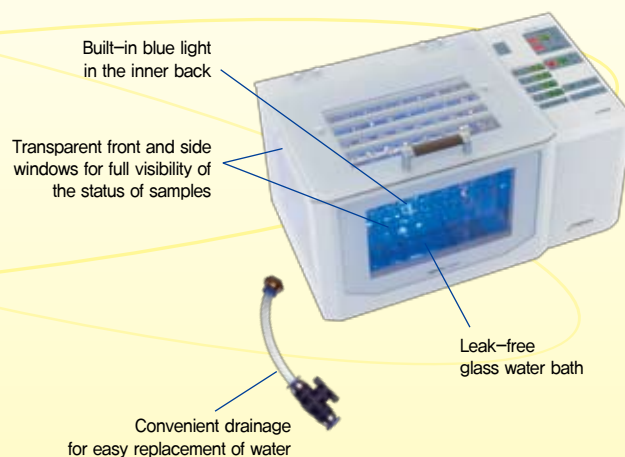
Concentration Efficiency through HyperVap 300

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

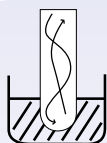
Experimental conditions

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

(min:sec)



Automated Evaporation Concentrator



✓ Semi helical Air/Gas Flow

Specially designed nozzle generates semi-helical air/gas flow to make more surface area and consequently helps faster concentration.

Tempered glass lid secured from any hazardous organic solvents

Easily replaceable nozzle assemblies

Back ventilation fan for fast evacuation of vapor and gas



✓ 4 Independent Timer Setting for Gas Inlet

The 4 gas inlet channels can be controlled independently on each nozzle. It helps to process 4 different evaporation simultaneously and achieve efficient recovery of samples depending on the sample characteristics.

✓ Two Step Control of Gas Introduction

The pressure and timing of both initial and working gas input can be set-up. It automatically changed to working pressure according to the set time. The gradual change of gas pressure protects the samples from bumping off.

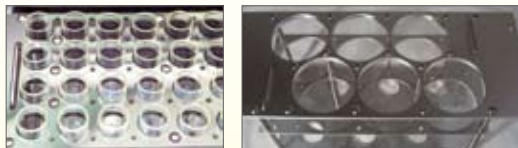
✓ Temperature Control up to 99°C

The temperature of the water bath beneath the sample rack is adjustable up to 99°C. The water bath should contain enough pure water to keep the sample tubes adequately heated.

✓ Monitor Lights

These shows the status of heater, ventilation fan, and door. When the heater and the fan is working and the door is completely closed, each yellow lights are on. If something is wrong or the door is loose, the corresponding light turns to red.

Diverse Types of Racks * Custom order available.



Ordering Information

Cat. No.	Description	Unit
HV-300 Concentrator consists of a main system, a tube rack and a pack of nozzle caps(8/pk)		
HV300101	Concentrator consists of a main system(4 x 8 nozzle) & a tube rack for 24 x 120 mm tubes	set
HV300103	Concentrator consists of a main system(3 x 6 nozzle) & a tube rack for 30 x 120 mm tubes	set
HV300105	Concentrator consists of a main system(3 x 5 nozzle) & a tube rack for 38 x 140 mm tubes	set
HV300110	Concentrator consists of a main system(2 x 3 nozzle) & a tube rack for 72 x 140 mm tubes	set
HV30010S	Concentrator consists of a main system with customized nozzle assembly and tube rack	set

Cat. No.	Description	Unit
Tube Rack		
HV980101	Tube rack for 24 mm x 120 mm tubes(32 positions)	ea
HV980102	Tube rack for 15 mm x 70 mm tubes(32 positions)	ea
HV980103	Tube rack for 30 mm x 120 mm tubes(18 positions)	ea
HV980105	Tube rack for 38 mm x 140 mm tubes(15 Positions)	ea
HV980107	Tube rack for 15 mm x 120 mm tubes(32 Positions)	ea
HV980109	Tube rack for 16 mm x 100 mm tubes(32 Positions)	ea
HV980110	Tube rack for 72 mm x 140 mm tubes(6 positions)	ea
HV98010S	Custom tube rack	ea

Cat. No.	Description	Unit
Nozzle Assembly		
HV960201	Nozzle assembly, 4 x 8(32 positions)	set
HV960202	Nozzle assembly, 3 x 6(18 positions)	set
HV960205	Nozzle assembly, 3 x 5(15 positions)	set
HV960206	Nozzle assembly, 2 x 3(6 positions)	set
HV96020S	Custom nozzle assembly	set
HV970250	Nozzle closure caps, 8/pk	pk