Easy concentration of small volume samples

Smart Evaporator MADE IN JAPAN



Short cut for tedious concentration procedures

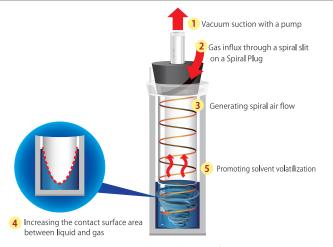


<Spiral Plug mark>

This trademark indicates the application of our proprietary vacuum-style vortex concentration technology.

High-boiling-point solvent

Vacuum Vortex Concentration



Vortex Vortex Concentration increases the contact surface area between liquid and gas, which promotes the speed of concentration.

In addition, this enables to concentrate samples without heating at high temperature.

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Reference (Concentration speed)

15L/min 15L/min 15L/min 15L/min	40°C 3 min 4 min 6 min 9 min	70℃ 3 min 3 min 5 min 8 min
15L/min 15L/min 15L/min	4 min	3 min 5 min
15L/min	6 min	5 min
15L/min		
	9 min	8 min
15L/min	10 min	6 min
15L/min	10 min	6 min
29~30L/min	49 min	28 min
20~30L/min	43 min	24 min
23~30L/min	195 min	69 min
25201 /min	N/A	71 min
	20~30L/min	20~30L/min 43 min 23~30L/min 195 min

Useful in many different research fields

- ■Organic Chemistry
- Materials Science
- ■Polymer Chemistry
- ■Environmental Analysis
- ■Bio Chemistry

etc

Used For

- ☐ Compounds after organic synthesis
- ☐ Solvent removal after NMR
- ☐ Samples after fractionation and purification
- ☐ Samples after solid extraction

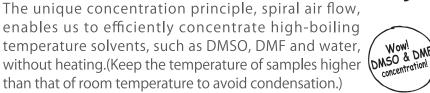
Reasons why Smart Evaporator is selected



Bumping-free

Plugs with a spiral slit can prevent bumping by eliminating high vacuum state and generating spiral air flow to stir whole samples.







Reference (Concentration speed)

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Solvent / Amount	Flow rate	40°C	70℃	
Deionized Water /5mL (20 ml vial)	29~30 _{L/min}	49min	28min	
DMF/5mL (20 ml vial)	20~30 _{L/min}	43min	24min	
DMSO/5mL (20 ml vial)	23~30 _{L/min}	195min	69min	
NMP/5mL (20 ml vial)	25~30 _{L/min}	N/A	71min	



3 Efficient sample recovery

No requirement of sample transfers eliminates the risk of sample loss and saves time.



Tapered Spiral Plugs are compatible with more than 500 different containers such as yials and micro tubes etc.





5ml vial、micrtube、micro test tube 、1.5ml /2ml vial Sample vial for HPLC falcon tube / conical tube etc...

5 Easy handling

It only takes a few minutes to start concentration by turning a control valve after setting up samples.

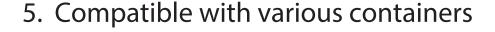




Smart Evaporator (K4)...

One position is not enough, but four-position just works fine!

- 1. Bumping-free
- 2. DMSO&DMF concentration
- 3. Efficient sample recovery
- 4. Easy handling





Product name	Smart Evaporator K4	
Heater shape & size	Rectangle shaped, W226mmxD55mmxH58mm	
Heater temperature range	Room temperature to 100°C	
Gas purge	X	
Inner mouth diameter of compatible containers	Φ4~32mm *containers with inner mouth diameter of 24~32mm can also be used for some cases. Please ask your distributor for details.	
Color	1 colors (Sun)	
Size(mm)	W340x D156x H414.2 (except protruded parts)	
Weight	4.8kg	
Operating environment	Temperature : 10° C~to 40° C Humidity : $20\% \sim 80\%$	

Consumables

Companiables		
Spiral Plug	Catalog code	SP-P1 (for containers with Inner diameter of 4~7mm)
		SP-P2 (for containers with Inner diameter of 7~11mm)
		SP-P3 (for containers with Inner diameter of 11~17mm)
		SP-P4 (for containers with Inner diameter of 15~24mm)
		SP-P5 (for containers with Inner diameter of 24~32mm)
Guide Plate	Catalog code	CEK4-GP-()-4 *Please indicate the size of the hall in parentheses.

■ Distributor

■Manufacturer

