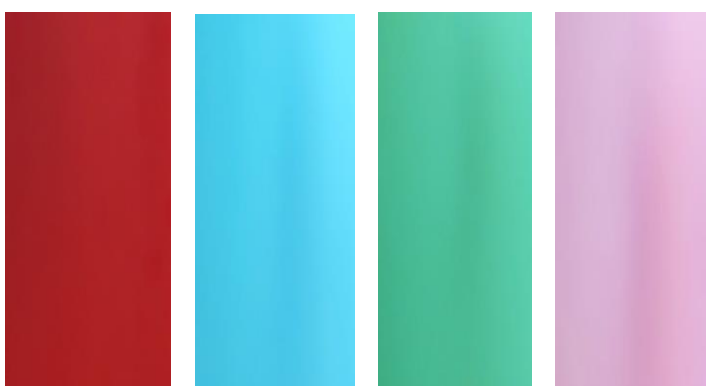


- DMSO,DMF,WATER can be evapoeated with **NO BUMPING**
- Solvent removal directly from **HPLC/LC/GC vials**
- Sample concentration after fractionation,NMR measurement,etc.
- **10 vials at a time** – saves evaporation time and labor

# Smart Evaporator C10



10 samples at a time



4 colors to choose from



## DMSO,DMF,Water



The Smart Evaporator enables efficient evaporation of high-boiling point solvents - even DMSO, DMF, and water.

All models are with the heating function, and the covered models\* allow the use of inert gas, which accelerates faster concentration. (\*C1 and C10)

## Fast and Effecton Evaporation

Solvent / Capacity	Flow rate	40°C	70°C
Hexane / 5 ml (20 ml vial)	15L/min	3 min	3 min
Acetone / 5 ml (20 ml vial)	15L/min	4 min	3 min
Ethyl acetate / 5 ml (20 ml vial)	15L/min	6 min	5 min
Acetonitrile/ 5 ml (20 ml vial)	15L/min	9 min	8 min
Methanol / 5 ml (20 ml vial)	15L/min	10 min	6 min
Ethanol / 5 ml (20 ml vial)	15L/min	10 min	6 min
*Deionized Water / 5 ml (20 ml vial)	29~30L/min	49 min	28 min
*DMF / 5 ml (20 ml vial)	20~30L/min	43 min	24 min
*DMSO / 5 ml (20 ml vial)	23~30L/min	195 min	69 min
*NMP / 5 ml (20 ml vial)	25~30L/min	N/A	71 min

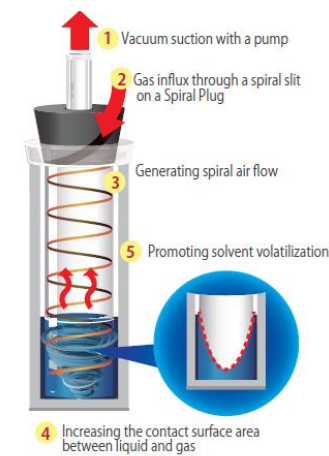
\* Gas purge data

## Bump Free Technology



The novel Spiral Plug technology generates a helical flow of air over the surface of the solvent, thereby increasing the surface area. Since the container isn't under high vacuum, there is no risk of bumping or splashing.

## Vacuum Vortex Concentration



## Smart Evaporator C10 includes a set of:

- 10 x Spiral Plugs of your choice (size P1 ~ P3)
- 1 x Vial Holder of the corresponding size (size 1 ~ 3)



## Specifications

Product Name	Smart Evaporator C10
Heater shape & size *	solid vial holder with 10 holes (available in 3 sizes: φ11.7mm/ φ18mm/ φ27mm)
Heater temperature range	Room temperature to 100 °C
Size of container	P1: 1.5ml vial (less than φ11.7mm), P2: 6ml vial (less than φ18mm), P3: 20ml vial (less than φ27mm)
Color	4 colors (Sun, Sky, Squall, Grass)
Size (mm)	W350 x D300 x H531 (except protruded parts)
Weight	20kg
Operating environment	Temperature: 10°C~ to 40°C Humidity: 20~80%

## Optional Items



**Spiral plugs**  
Available in 3 size  
(for supplement / replacement)



**Vial Holder**  
Available in 3 size  
(for supplement / replacement)



**Vacuum Pump**  
High flow rate is needed for evaporating multi channels  
Recommended Model :  
DA-241S by ULVAC  
(sold separately)

# Voice of Customer : Smart Evaporator C10

## Definitely fast and effective way to evaporate multiple samples!



Dr. Kanomata who is developing the efficient catalytic reaction utilizes the Smart Evaporator C10 to evaporate 3 to 8 samples at a time as the pretreatment prior to analyzing extracted components.

Number of samples	Rotary Evaporator	C10
1	15min	15min
3	45min	15min
8	120min	15min

According to Dr. Kanomata, **it used to take about 2 hours**, but now it takes **only 15minutes** which has greatly improved their workability. Also because there is no risk of bumping, they are released from concerns of contamination risks thus remarkably improved their research efficiency.

It is our honor to have contributed in shortening the researcher's operation time, and to have received their comment "this is definitely the fast and convenient solution for evaporating multiple samples".

Dr. Kyohei Kanomata,  
Bioresources Chemistry,  
Department of Agro-  
environmental Sciences,  
Faculty of Agriculture,  
Kyushu University

## Multiple evaporations of water or mixed solvents for ingredient analysis pretreatment with the C10!



In Ms. O's laboratory, they used to select an appropriate equipment each time for evaporating 100% water or mixture of water and organic solvents from samples, depending on their type and/or quantity from four types - freeze dryer, centrifugal evaporator, nitrogen blow-down system, and rotary evaporator.

	Water	Water/Solvent (Large qty)	Water/Solvent (Small qty)
1ml	Nitrogen Blowing	Nitrogen Blowing	Nitrogen Blowing
1 ~ 20ml	Freeze Dryer	Centrifugal evaporator	Centrifugal evaporator
20 ~ 50ml	Freeze Dryer	Centrifugal evaporator	Rotary evaporator
50ml ~	Freeze Dryer	Rotary evaporator	Rotary evaporator

	Water	Water/Solvent (Large qty)	Water/Solvent (Small qty)
1ml	<b>Smart Evaporator C10</b>		
1 ~ 20ml			
20 ~ 50ml			
50ml ~			
*Samples are divided in containers and evaporated at a time.			

The Smart Evaporator C10, whereas, characteristically enables **simultaneous evaporation of water and organic solvent at a time, use of oil-less vacuum pump, elimination of bumping, and multiple sample processing at a time** - benefitted from those features, now their evaporation work is managed with just one unit leading to a significant improvement in the process. Regardless of the types and/or numbers, the C10 can handle the samples at analysis pretreatment. We hope it contributes to the field of pharmaceutical development further more.

Ms. O, drug-related division  
in a chemical manufacturer

■ Distributor

■ Manufacturer

**BC BioChromato**

*Mining ideas, Aiding laboratories*

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