



COSMO-SCIENCE in collaboration with Prof. Hideyuki Murata at JAIST has developed a new sublimation purification equipment aiming to purify organic compounds using sublimation under low pressure.

Sample tubes are arranged vertically while purification units can be added horizontally in series.

Thanks to its optimized light design, initial installation costs are significantly reduced!

A variety of configurations can be created by adding more units.



Configuration can expand up to four purification units, and each unit can simultaneously sublimate and refine different materials.

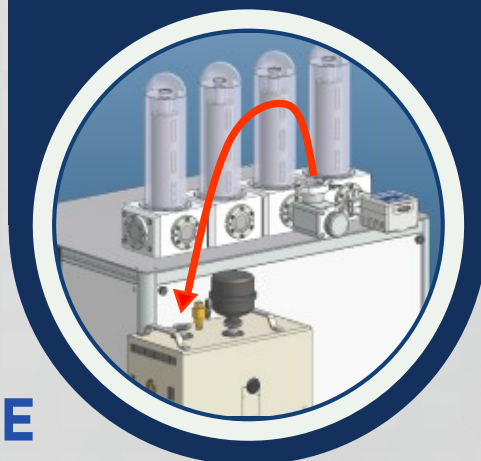
Slit-shaped viewing windows allows for observation of the live process.

Akin to a small experiment table, the device is designed for convenient handling and reduced footprint.

Independently of the number of units, only one pumping system is necessary due to the design in series.

4 units at once is not a problem !

The structure is also cross-contamination resistant.





BODY DETAILS

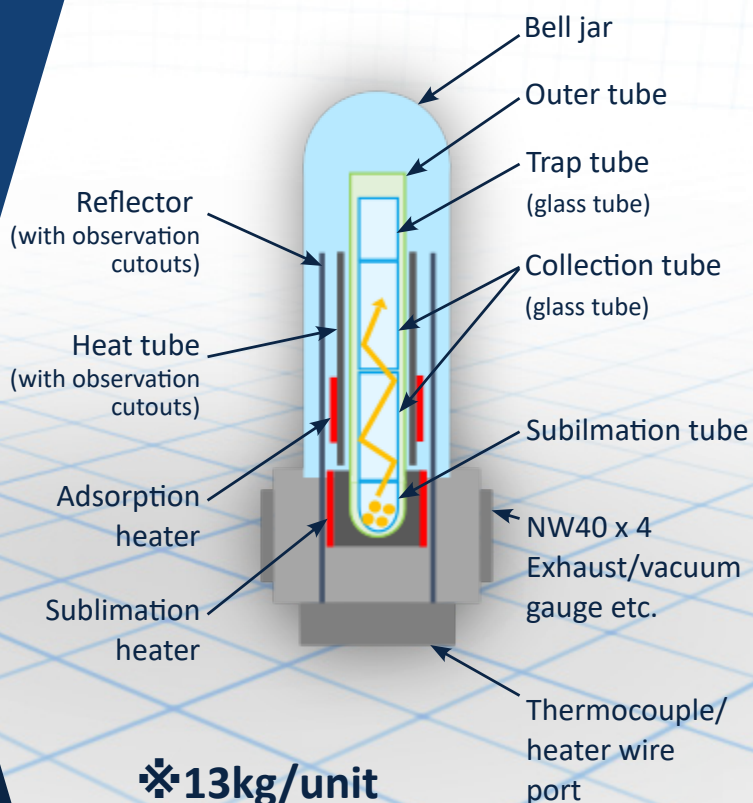


※Standard specifications = Frame +
Sublimation unit x1 + Glassware set x1
+ Heater controller x1 + Bell jar holder x1

EQUIPMENT SPECIFICATIONS

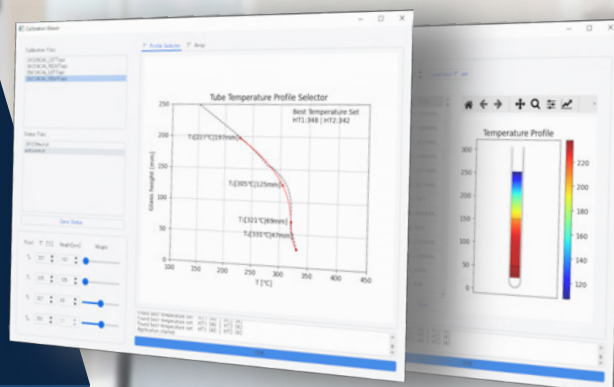
	Specification	Options
Processing volume	Max. 60cc (15cc unit x 4)	
Glassware	Borosilicate glass Collection tube: IDφ22 x L100 (2 parts)	Quartz glass Parts shape and number customizable
Bell jar	Borosilicate glass ID φ85 x L300	Quartz Other materials available
Heating	Sheath heater	
Temperature measurement	Temperature measurement points other than the heater are available upon request	
Control Method	Individual PID control by temperature controller	Programmable control possible
Operation temperature	Max. 500°C (Sublimation zone) Max. 400°C (Collection zone)	Max. 500°C (Collection zone) (Optional Heater)
Power supply	AC100V 6A (max 2 units on a single power strip)	Specifications available upon request
Footprint	W800 x D600 x H1160	
Weight	50kg (1 unit)~90kg (4 units)	

SUBLIMATION UNIT DETAILS



※13kg/unit

SOFTWARE



Use our proprietary software to determine the best temperature conditions for your process !

To get more precise results, specific calibration data for your equipment can be created upon request.

Contact us:

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