

## 1.High-temperature metal evaporator (ME-103C/104C series)

Model number :ME-	Number of elements	Thermo couple (W-Re)	Shutter function	Film thickness gauge function	Temperature controller
L104C	4	×	×	×	×
L103CS	3	×	0	×	×
L103CSF	3	×	0	0	×
104C	4	0	×	×	×
104CT	4	0	×	×	0
103CS	3	0	0	×	×
103CST	3	0	0	×	0
103CSF	3	0	0	0	×
103CSFT	3	0	0	0	0

<sup>○:</sup> Standardized configuration ×: Without equipment

## 2.Organic molecular evaporator (ME-203C/204C series)

Model number :ME-	Number of elements	Thermo couple (K-Type)	Shutter function	Film thickness gauge function	Temperature controller
204C	4	0	×	×	×
204CT	4	0	×	×	0
203CS	3	0	0	×	×
203CST	3	0	0	×	0
203CSF	3	0	0	0	×
203CSFT	3	0	0	0	0

O: Standardized configuration ×: Without equipment

Instrumental components subject to change without prior notice for improvement inperformance.



UNISOKU Co., Ltd.

http://www.unisoku.co.jp 2-4-3, KASUGANO, HIRAKATA, OSAKA, 573-0131, JAPAN http://www.unisoku.com

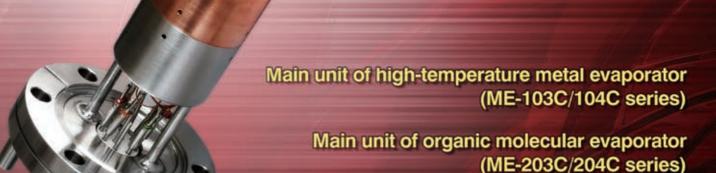
Tel: +81-72-858-6456 Fax: +81-72-859-5655 E-Mail: info@unisoku.co.jp





ME Series

Ultra High Vacuum Multi-element Miniature Evaporators (for High-temperature Evaporation and Organic Molecular Evaporation)

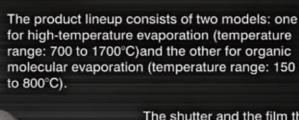






These are compact and cost-effective three- or four-element crucible-type evaporators.

Temperature controller



The shutter and the film thickness gauge are optional attachments.

> An evaporator with no shutter mechanism consists of four elements, while that with the shutter function consists of three. The temperature can be controlled independently for each element.

UNISOKU Co., Ltd.

Main body of 3-element evapotor with shutter function

## Main unit of high-temperature metal evaporator (ME-103C/104C series)

Structure				
Evaporator	Crucible-type evaporator			
Heating method	Direct resistance heating by filament			
Inner volume of crucible	3 mm (dia.) × 6 mm (depth) (material: alumina)			
Number of elements(crucibles)	Four for an evaporator with no shutter function; Three for an evaporator with the shutter function			
	* The main body needs to be returned to Unisoku for the crucible exchange.			
	Additional expenses are also needed.			
Mounting flange	ICF70			
Connector	10-pin current lead terminal			
Cooling mechanism	A water-cooling jacket is provided as standard (amount of water: 1 L/min.)			
<u> </u>	* Water cooling is indispensable, especially when the evaporator is used at 1000°C or higher.			
Distance from the flange face	At least 100 mm from the mounting flange face to the crucible head tip (with no shutter)			
to the crucible head tip	(The distance can be extended at your request at the time of order.)			
Target distance	At least 100 mm from the crucible head tip			
	on The vacuum chamber must be mounted at an angle of at least 30° from the horizontal			
Dowformone				
Performance Heating temperature range	700-1700°C (Recommended temperature during continuous use is 700-1600°C.)			
rieating temperature range	* The maximum temperature is 1600°C (current: 7A) when a UNISOKU controller is used for			
	temperature control.			
	* The temperature measurement is not available if the evaporator has no thermometer.			
Heating a summer	* There are some differences between the inside temperature of crucible and setting temperature			
Heating current	Max. 7.5 A–14 V			
Baking temperature	<200°C			
<b>Evaporation element</b>				
Material form	Powder, granule, wire, and other forms that can be placed in the crucible.			
Material fill volume	The recommended amount is 1/2 the volume of the crucible or smaller			
	(depending on the mounting angle).			
Evaporation material that can be	be used Elements that can be evaporated at 1700°C or lower. Note that elements			
<u> </u>	that evaporate at 700°C or lower are hard to control.			
* Temperature measurement is r	not available if the evaporator has no thermometer.			
Chutter function D.	ided as about fauths 140000/40000 assiss			
<u> </u>	vided as standard for the L103CS/103CS series			
	nual switching using the rotary motion feedthrough(with a rotation stopper)			
Shutter plate Size	e: 34 mm dia.; Rotation diameter: 30 mm			
Film thickness gauge	function Provided as standard for the L103CSF/103CSF series			
Film thickness gauge Film thickness gauge element mod	unting position Shutter plate surface			
Film thickness gauge eleme	nt Crystal oscillator			
Film thickness monitor	Inficon film thickness gauge element monitor (XTM/2) is provided as standard			



## Main unit of organic molecular evaporator (ME-203C/204C series)

Structure	
Evaporator	Crucible-type evaporator
Heating method	Direct resistance heating by filament
Inner volume of crucible	2.6 mm (dia.) × 6 mm (depth) (material: tantalum)
Number of elements (crucibles)	Four for an evaporator with no shutter function; Three for an evaporator with the shutter function
	* The main body needs to be returned to Unisoku for the crucible exchange.
	Additional expenses are also needed.
Mounting flange	ICF70
Connector	10-pin current lead terminal
Cooling mechanism	A water-cooling jacket is provided as standard (amount of water: 1 L/min.)
	* Water cooling is indispensable, especially when the evaporator is used at 500°C or higher.
Distance from the flange face	At least 100 mm from the mounting flange face to the crucible head tip (with no shutter
to the crucible head tip	(The distance can be extended at your request at the time of order.)
Target distance	At least 100 mm from the crucible head tip
Vacuum chamber mounting direction	The vacuum chamber must be mounted at an angle of at least 30° from the horizonta
Performance	
Heating temperature range	150-800°C
	* There are some differences between the inside temperature of crucible and setting temperature
Heating current	Max. 7.5 A–14 V
Baking temperature	<200°C
Evaporation element	
Material form	Powder, granule, wire, and other forms that can be placed in the crucible.
Material fill volume	The recommended amount is 1/2 the volume of the crucible or smaller
	(depending on the mounting angle).
Evaporation material that can be us	
Recommended elements	Various organic molecules
	(The material that evaporation temperature is lower than decomposition temperature
<u> </u>	ided as standard for the 203CS series
	nual switching using the rotary motion feedthrough (with a rotation stopper)
Shutter plate Size	e: 34 mm dia.; Rotation diameter: 30 mm
Eller Heleler	Purities -
Film thickness gauge for	
Film thickness gauge element mo	* •
Film thickness gauge element	nt Crystal oscillator Inficon film thickness gauge element monitor (XTM/2) is provided as standard

