

# Dry Sterilizer (Laboratory use)

Natural convection (SK401/601) / Forced air convection (SK801/811)

## SK401/601/801/811

Operating temp. range Room temp. +5~260°C SK401/601 Room temp. +10~210°C SK801/811

Temp. control accuracy ±1°C (at 260°C) SK401/601 ±1°C (at 210°C) SK801/811

Internal capacity 99L SK401 162L SK601 300L SK801/811

### Dry heat sterilization with independent overheat prevention device

#### Operation and function

- Programmable
- High precision controller with improved display visibility and operability
- Standard equipped with calibration offset, lock function, power recovery mode, power on and operation time accumulation, calendar time, accumulation power consumption monitoring, total CO<sub>2</sub> emission, and heat output, save and access operator setting information
- Maximum 99 steps, 99 patterns, repeat operation
- Easy sample data collection with cable port

#### Safety features

- Standard equipped with self diagnostic functions, independent overheat prevention device and earth leakage breaker



(Stand optional)

#### Specifications

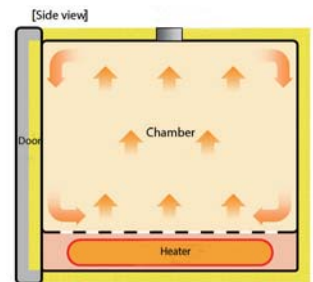
Model	SK401	SK601	SK801	SK811
Circulation method	Natural convection		Forced convection	
Temp. setting range	Room temp. +5~260°C		Room temp. +10~210°C	
Temp. control accuracy	±1°C (at 260°C)		±1°C (at 210°C)	
Temp. fluctuation	±1.5°C (at 260°C)		±1°C (at 210°C)	
Temp. distribution accuracy	±5°C (at 260°C)		±3.5°C (at 210°C)	
Temp. rising time	Approx. 60min.			
Interior / Exterior material	Stainless Steel / Chrome free electrogalvanized carbon steel sheet coated with chemical-proof baked-on finish			
Insulation Material	Glass wool			
Heater	SUS 1.2kW	SUS 1.36kW	SUS 2.4kW	
Sensor	K type Thermocouple			
Fan type / Fan motor	-		Sirocco Fan / Condenser type motor 30W	
Cable port	I.D. 33mm (right side)			
Exhaust port	I.D. 33mm×2 (on top)		I.D. 33mm×2 (back)	
Temperature control	PID control by microprocessor			
Temperature display	Temp. display: Green 4-digit LED digital display (increment: 1°C) Setting temp. display: Orange 5-digit LED digital display (increment: 1°C)			
Timer	0 min~99 hrs 59 min (increment: 1 min. or 1 hr.)			
Heater control	Triac with Zero-cross control			
Operation function	Fixed temperature, Auto start, Auto stop, Quick auto stop, Program (99 steps, 99 patterns, Repeat operation function)			
Additional function	Power on and operation time accumulation function (up to 65535 hours), Calendar time (24 hours), Calibration offset, Accumulated power consumption monitoring, Total CO <sub>2</sub> emission and heater output, Power recovery mode, Save and access operator setting information, Key lock			
Safety device	Self-diagnostic functions (Sensor failure, SSR short circuit, Heater failure, Main relay contact failure, Automatic overheat prevention), Earth leakage breaker, Independent overheat prevention device			
Internal dimensions (W×D×H)	450×490×450mm	600×540×500mm	600×500×1000mm	
External dimensions (W×D×H)	560×600×820mm	710×650×870mm	710×650×1640mm	
Internal capacity	99L	162L	300L	
Shelf plate with standard load	Approx. 15kg/pc			
Shelf rest step number / pitch	11 steps / 30mm	13 steps / 30mm	29 steps / 30mm	
Power source	115V 11.5A	115V 12.5A	115V 22A	Single phase 220V 11A
Weight	Approx. 50kg	Approx. 62kg	Approx. 108kg	
Shelf plate / bracket	Stainless steel punched metal			
	2 pcs. / 4 pcs.		4 pcs. / 8 pcs.	



## Control Panel



## Method



## Cable Port



## Shelf and Bracket Set

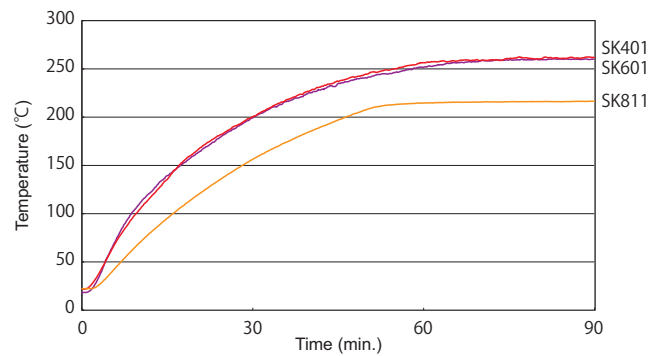


## Optional items

Description		Product code
Stand		
For SK401/601	ON61	211856
For SK401	OT42	212348
For SK601	OT62	212349
Stacking kit		
For SK401	OD40	212822
For SK601	OD60	212823
Shelf and bracket set		
For SK401	ODN20	212246
For SK601/801/811	ODN22	212266
*Cable port		
Ø25mm	ODK32	281121
Ø50mm	ODK34	281122
Seismic mat		296902
External communication adapter set	OIN90	211880
*External communication terminal	ODS16	212981
*Temperature output terminal	ODS18	212982
*External alarm output terminal	ODS22	212983
*Timeup output terminal	ODS24	212984
*Operation signal output terminal	ODS26	212985
*Event output terminal	ODS28	212986

\* Please specify when ordering main unit.

## Temperature Rising Curve

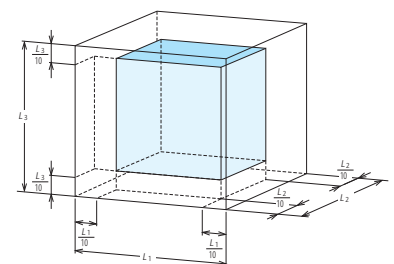


## 9 Points of Distribution Reference Data (SK811, no load, setting temp. 180°C)

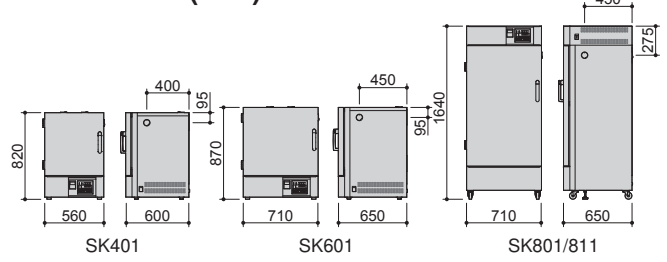
	Top right back	Top left back	Top right front	Top left front	Bottom right back	Bottom left back	Bottom right front	Bottom left front	Center
SK811	186.6	189.2	186.2	188.8	184.9	186.3	183.0	183.5	186.9

### Conditions

- 9 measurement points are taken from the effective internal capacity down-scale by 10% (as the image on the right) and the center
- Room Temp. 23°C, AC115V, 50Hz, stable temperature when temp. setting at 180°C
- No load, with 2 pcs of shelves



## Dimensions (mm)



## Containers

Product code	Basket model	Description	Dimensions	Suitable models
H060303020	-	Mesh basket	ø254×H240mm	SK101C/111C
H060303038	-	Mesh basket	ø254×H331mm	SK200C/210C
H060303037	-	Mesh basket	ø254×H409mm	SK300C/310C
241085	OSQ-10	Mesh basket (pitch 2.5 mm)	ø190×H159mm	SM201/211
241086	OSQ-20	Mesh basket (pitch 2.5 mm)	ø250×H201mm	SM301/311/501/511
241087	OSM-60	Mesh basket (pitch 8.5 mm)	ø205×H204mm	SM201/211, SN200C/210C
241088	OSM-70	Mesh basket (pitch 8.5 mm)	ø262×H204mm	SM301/311/501/511, SN300C/310C/500C/510C
241089	OSM-80	Mesh basket (pitch 8.5 mm)	ø262×H315mm	SM501/511, SN500C/510C
241090	OSR-40	Mesh basket with 2 stacking fittings	ø326×H165mm	SQ500C/510C/810C, SM520/530/820/830
241091	OSQ-50	Mesh basket with 3 stacking fittings	ø246×H162mm	SM501/511, SN500C/510C
241092	OSQ-40	Mesh basket with 2 stacking fittings	ø246×H162mm	SM301/311, SN300C/310C
241093	OSQ-30	Mesh basket with 2 stacking fittings	ø168×H162mm	SN200C/210C, SM201/211
241094	OSQ-80	Mesh basket with 2 perforated plates	ø200×H590mm	SM501/511, SN500C/510C
241095	OSQ-70	Mesh basket with 1 perforated plate	ø260×H390mm	SM301/311, SN300C/310C
241096	OSQ-60	Mesh basket with 1 perforated plate	ø200×H390mm	SM201/211, SN200C/210C
241097	OSR-50	Mesh basket with 1 perforated plate	ø340×H430mm	SQ500C/510C/810C, SM520/530/820/830
241099	OSQ-90	Mesh basket	ø332×H196mm	SQ500C/510C/810C, SM520/530/820/830
241083	OSR-10	Stainless solid basket	ø210×H200mm	SM201/211, SN200C/210C
241084	OSR-20	Stainless solid basket	ø270×H200mm	SM301/311/501/511, SN300C/310C/500C/510C
241098	OSR-60	Stainless solid basket	ø330×H235mm	SQ500C/510C/810C, SM520/530/820/830
241150	OSN-10	Stainless bucket	ø210×H210mm	SM201/211, SN200C/210C
241151	OSN-12	Stainless bucket	ø270 x H210mm	SM301/311/501/511, SN300C/310C/500C/510C
241152	OSN-14	Stainless bucket	ø340 x H210mm	SQ500C/510C/810C, SM520/530/820/830

### Mesh basket



### Stainless solid basket



### Stainless bucket

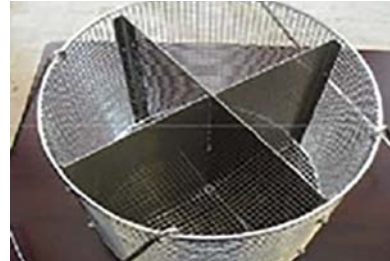


## Plates and Inserts

Product code	Description	Suitable models
Q110603004	Stackable plate	SK200C/210C
Q110603005	Stackable plate	SK300C/310C
Q110603008	Stackable insert	SK200C/210C
Q110603009	Stackable insert	SK300C/310C



Stackable plate



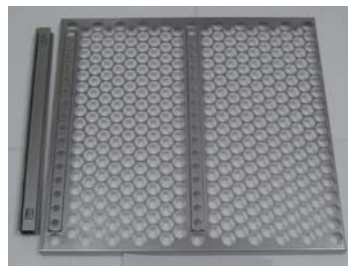
Stackable insert

## Shelves

Product code	Punching shape	Suitable sterilizer models
212095	Round punch shelf & bracket set	SI401
212246	Round punch shelf & bracket set	SK401
212266	Round punch shelf & bracket set	SI601, SK601/801/811



212095



212246



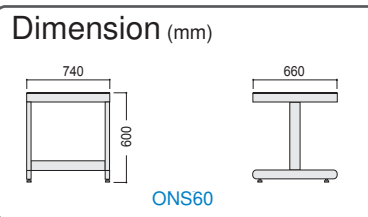
212266

## Stands

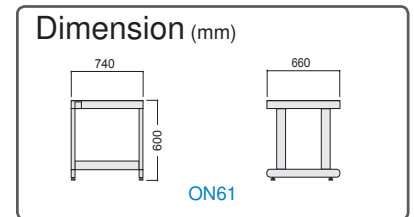
Product code	Stand models	Suitable sterilizer models
212802	ONS60	SI401/601
211856	ON61	SK401/601
212348	OT42	SK401
212349	OT62	SK601



ONS60



ON61



OT42/62

