

SDL

Equipped with drying equipment, the **SDL-320 Autoclave** maximizes the effectiveness of sterilization.

SPEEDY AUTOCLAVES WITH DRIER SDL-320

Space-saving design minimizes laboratory space occupied.

The area required for installation is reduced to approximately 0.34m² (W × D: 605mm × 565mm). The sliding door type model also minimizes door clearance to preserve valuable laboratory space.

Easy-to-use control panel



A real time work monitor displays 6 status indicators for each working process of the autoclave.

When the autoclave is turned on, the work monitor simultaneously indicates "Main On". After setting parameters, the monitor displays status indicators of the current working process, including "Sterilizer", "No Water", "Exhaust", "Dry" and "Finish", which provides an at-a-glance monitoring of the operation status.



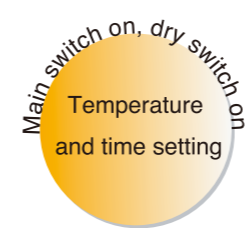
※The control panel lighting image shown above may vary from actual display.



SDL-320

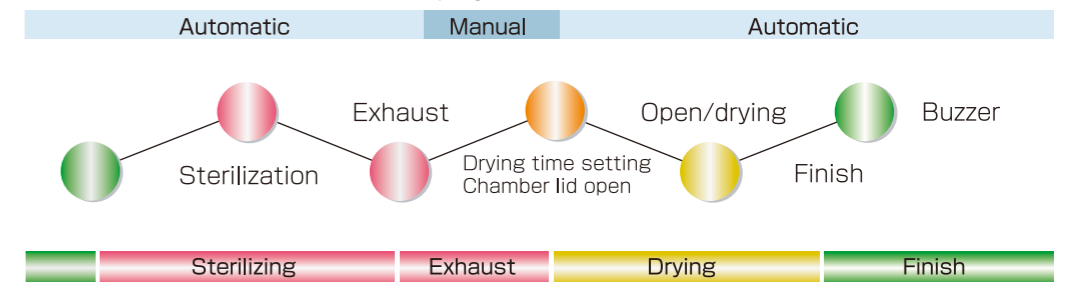
Sterilizing-Drying Process

SDL-320



Work monitor

SDL-320 employs an open heat-drying system, which performs drying with open lid after sterilization.



◆ Specifications

Model		SDL-320
Operating temperature range (during sterilizing)		60 - 132°C
Operating pressure range		0 - 186kPa
Maximum operating pressure		216kPa
Temperature control		Electronic
Temperature display / display range		Analog / 80 - 160°C
Pressure display / display range		Analog / 0 - 400kPa
Heat source		2kW electric heater
Timer control		Electrically-operated
Timer display		Analog
Timer display range	Sterilizing timer	0 - 60min. 50 / 60Hz
	Drying timer	0 - 60min. 50 / 60Hz
Safety devices		● Empty heating prevention, ● Leakage breaker ● A dead weight safety valve
Malfunction prevention devices		● Low water level detection
Leakage breaker	Rated breaking current:	30A (120V) , 15A (220 / 230 / 240V)
	Rated sensed current:	30mA (120V) , 10mA (220 / 230 / 240V)
Protection type		Class 1 equipment
Operating environment	Ambient temperature:	5 - 35°C
	Relative humidity:	30 - 85%
	Atmospheric pressure:	700 - 1060hPa
	Gradient:	Within 2°
Dimensions		φ 325 × 770mm
Usable dimension		φ 315 × 670mm
Capacity of chamber		55 ℓ
Chamber material		SUS304
Capacity / material of drain trap		10 ℓ / polyethylene
Type/material of lid gasket		Accommodating internal pressure / silicone rubber
Dimensions of main unit (mm)		605W × 565D × 1080H (Height from floor to control panel:880)
Net weight		100kg
Rated Voltage		AC 120 / 220 / 230 / 240V
Power input		20A (120V), 10A (220V), 9A(230 / 240V)
Power supply requirements		Single-phase 120V AC (50 / 60Hz) 20A or above Single-phase 220 / 230 / 240V AC (50 / 60Hz) 15A or above
Power Consumption (calorific value)		2kW (1720kcal/h)
Accessories		● Drain trap 1, ● Drain hose 1, ● Warranty card 1, ● Customer card 1, ● Operator's manual 1, ● Stainless basket 2 (φ 300 × 182mm)

◆For dimension details on the chamber and usable or inside dimension, please refer to each part dimensional drawing on the back page.

The autoclave is designed with safety features that ensure operator safety.

Boil-dry safety mechanism

A water level sensor is electrically responsive to the volume of water inside the chamber. If it detects low water levels, the work monitor on the control panel indicates "No Water" .

Lid open / close direction

Lid opening/closing mechanism reduces the risk to the operator of being exposed to hot air and steam escaping from the chamber.

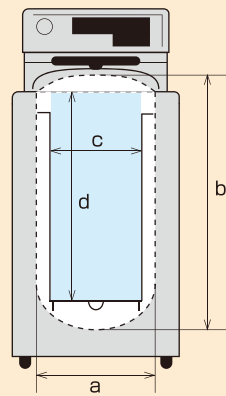
Current leakage breaker

It quickly detects abnormalities in the electrical system and protects the operator against electric shock caused by any malfunction such as a short circuit.

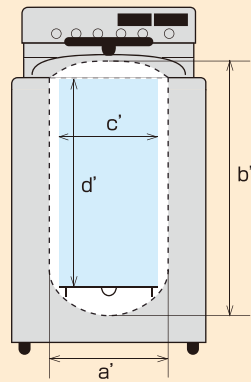
Gravity-operated safety valve

A safety valve fitted in the front panel allows easy monitoring of its operation status. When the pressure inside the chamber is too high, the safety valve is activated to protect the operator against hazardous conditions.

◆Part dimensional drawings



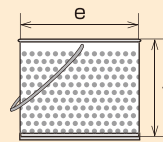
- Chamber dimensions (a: Bore diameter) × (b: Inside dimension)
- Usable dimension* (c: Inside diameter of a Stainless steel basket with slatted bottom plate) × (d: Effective depth)
- ▶ Applicable models : ES-315/215



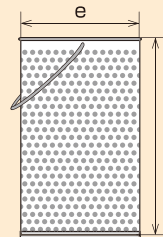
- Chamber dimensions (a': Bore diameter) × (b': Inside dimension)
- Usable dimension* (c': Effective diameter) × (d': Effective depth)
- ▶ Applicable models : SDL-320/SR-240

Stainless basket

Inside dimension (e: Bore diameter) × (f: Height)



- <Standard Accessory>
- ES-315 (2 pcs included)
- SDL-320 (2 pcs included)
- SR-240 (2 pcs included)



- <Standard Accessory>
- ES-215 (1 pc included)

* The usable dimension shows recommended values considering safety during operation. The volume or position of the sterilization items may block the holes inside the chamber or interrupt the flow of steam or air, which will result in abnormal pressure increase or incomplete sterilization. To ensure safe operation of the autoclave, it is recommended that stainless steel wire mesh baskets supplied with the unit as standard accessories or optional stainless steel buckets be used.

◆The image shown for the product may not display its real color or shape.

◆Accessories



Stainless Basket

The entire basket is made of punched metal and is designed for easy penetration of steam.



Stainless Long Basket

Optimal for sterilizing the sterilizing bag. The structure of the lower section is without holes.



Stainless Bucket

Bucket without holes to prevent leakage of liquid from articles being sterilized.



Stand for Testing Durham's Tubes

Convenient for sterilizing test tubes containing culture media. Can be used as a stand independently.



Sterilizing Bag

Sterilizing bags fit to the vessel dimensions of each model are available.



Deodorant for autoclave

It allows for repeated use and removes offensive odors such as odors caused by culture media in the chamber.



Autoclavable waste container "ST-ZERO"

Waste inside the BSC can be collected in the container and autoclaved.

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TOMY



AUTOCLAVES

Sliding Door Type Series

HIGH PRESSURE STEAM STERILIZER
ES-315/215



SPEEDY AUTOCLAVE WITH DRIER
SDL-320



RETORT FOOD AUTOCLAVE
SR-240

