

EYELA

SLI series (4 models) for culturing *Bacillus coli* and microbes
LTI series (10 models) for constant temperature test,
culturing, storing at low temperature

Incubator and Low Temp. Incubator series (Total: 14 models)

Incubator

SLI-400, 700, 1200
SLI-220 (Personal type)

Low Temp.
Incubator

LTI-700(W), 1200(W)
LTI-601, 1001SD
LTI-601, 1001ED
LTI-601ED-N (Air jacket type)
LTI-2000 (Personal type)



TOKYO RIKAKIKAI CO., LTD.
TOKYO, JAPAN

Air jacket type Incubator with excellent temperature



Control panel



Space-saving design

- ◆ Slim size with 526mmW × 550mmD (for SLI-400, 700) or 590mmD (for SLI-1200). The even surface allows convenient installation.
- ◆ Two SLI-400 models can be piled together. Also this unit and our product NDO-400/WFO-400 can be piled together, which contributes to space-saving of the laboratory.
- ◆ Opening side of the door can be changed, which allows users to install the instrument in any location.

Right/left side of door open



Opening side of the door can be changed with a little replacing work. Since door handle part does not have any salient, the instrument can be fit in any location. (At time of shipment, door opens right side.)

Safety feature

- ◆ Alarm indication and buzzer notify when the unit recovers after power failure or any trouble occurs.
- ◆ Control board-independent overheat protector is installed.



- ◆ Detachable shelves, shelf support and shelf pillar in the chamber allows easy cleaning of the chamber. Antibacterial stainless steel in the chamber keeps away bacteria from developing.

A wide variety of functions

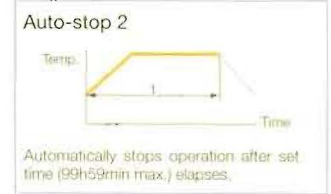
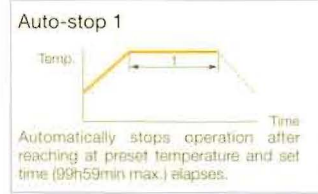
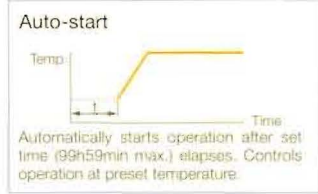
- ◆ Service outlet is equipped in the chamber, which allows users to install the shaker in the chamber for culturing. (Optional shelf for shaker installation is required.)
- ◆ Temperature compensation function is equipped to calibrate the indicated temperature into the chamber temperature measured by standard thermometer etc.
- ◆ Installing the cable hole is factory option. Recorder output terminal (option) can be attached later.

Cable hole (factory option)

Model	Cat. No.
SLI-400-C	197200
SLI-700-C	197210
SLI-1200-C	197990

Timer function

- ◆ Standard features of Auto-start/stop and Timer function enhance the work efficiency.



Temperature range for culturing and constant temp. test

- ◆ Available for wide range of applications including culturing microbes, culturing the recombinant DNA, measuring protein, and measuring the moisture.
- ◆ Air jacket convection enables excellent temperature uniformity and stable temperature control with little sudden change in temperature. Suitable for culturing the microbes which should be handled in the state of windlessness.

	Culturing/constant temp. test	Temp. range
Genic	Enzyme reaction	37°C
	Treatment of restricted enzyme	37°C
	DNA purification	37°C
	Isolation of phage DNA	37°C
Bacteria	E. coli	30~37°C
	Yeast	25~37°C
	Thermophilic bacterium	50°C min.
Others	Germination test	25~30°C
	Moisture measurement	50°C min.
	Constant temp. test of resin, pigment	50°C min.

Optional accessories

- Recorder output terminal HRC-1



DC output 14V. Chamber temperature can be stored for data.
Cat. No. 197260

- Shelf for shaker installation HSI-1



Necessary when using the shaker in the chamber.
Cat. No. 197270

- Clamp for placing the unit on top of another unit HSD-400

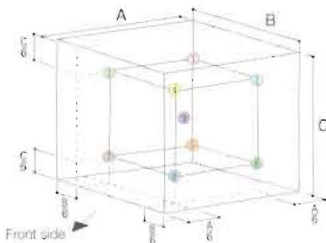
Use this clamp when installing two SLI-400 units on top of one another or piling SLI-400 together with Oven NDO/WFO-400.
Cat. No. 197230



- Adjuster caster HAC-1

(for SLI-400 and 700 only)
Moves the unit easily. Use when installing the SLI-400, 700 on the floor.
Cat. No. 197240 (4 pcs/set)

Data (Temperature distribution)



Set temperature: 37°C, RT: 25°C, AC100V, 50Hz, No load, Temperature compensated

Measured point	Average temp.(°C)			Max. temp.(°C)			Min. Temp.(°C)		
	SLI-400	SLI-700	SLI-1200	SLI-400	SLI-700	SLI-1200	SLI-400	SLI-700	SLI-1200
①	37.3	37.2	37.5	37.4	37.2	37.7	37.2	37.2	37.3
②	37.2	37.1	37.6	37.2	37.1	37.8	37.1	37.1	37.4
③	37.5	37.1	37.6	37.6	37.1	37.7	37.4	37.1	37.5
④	37.2	37.1	37.4	37.3	37.1	37.6	37.2	37.1	37.2
⑤	36.8	36.8	36.6	36.8	36.8	36.9	36.7	36.7	36.3
⑥	37.2	36.9	36.8	37.4	37.0	37.0	37.1	36.8	36.6
⑦	36.8	36.9	36.6	36.9	37.0	36.8	36.8	36.9	36.4
⑧	36.5	37.0	36.4	36.5	37.0	36.7	36.4	36.9	36.1
⑨	37.0	37.0	36.9	37.1	37.0	37.0	37.0	37.0	36.9

Product		Incubator (Soft incubator)		
Model	SLI-400/400-C	SLI-700/700-C	SLI-700/700-C	SLI-1200/1200-C
Catalogue No.	197180/197200	197190/197210	197190/197210	197190/197210
Air flow		Air jacket natural convection		
Features	Temp. range	RT+5~60°C		
	Control accuracy	± 0.1°C (setting at 37°C)		± 0.2°C (setting at 37°C)
	Uniformity	1.0°C (setting at 37°C)		1.5°C (setting at 37°C)
	Timer	0~99h59min		
Functions	Temp. control	Microprocessor P.I.D. control SSR output		
	Temp. setting/display	Membrane key switch, Digital readout		
	Equipped functions	Temp. display compensation, Auto-stop 1, Auto-stop 2, Auto-start, Setting of recovery from power failure		
Safety functions	Alarm function (Upper limit temp., Door open, Sensor, Power failure, Temp. control fault, Watchdog), Independent overheat protector (variable 30~70°C), Breaker for electrical leakage and excess current, Fuse (for service outlet)			
Composing	Heater	280W	280W	600W
	Temp. sensor	Thermistor		
Spec.	Chamber material	Anti-bacterial stainless steel		
	Chamber dim. (mm)	434W × 400D × 450H	434W × 400D × 700H	430W × 400D × 1200H
	Chamber capacity	Approx. 78L		Approx. 206L
	Shelf maximum load	15kg/shelf		
	No. of shelves equipped	2	3	5
	Service outlet	1 (in the chamber Max.2A)		
	Cable port	2 ports ID 36mm	2 ports ID 36mm	2 ports ID 36mm
	Inner door	Double transparent acryl		
Recorder output	DC 1~4V, F.S. (Option)			
Ambient temp.	5~35°C			
Overall dimension	526(553)W × 550D × 800H	526(553)W × 550D × 1050H	550(577)W × 590D × 1600H	
Net weight (approx.)	41kg	47kg	82kg	
Input power source	300VA	300VA	700VA	
Rated power source	AC100V, 50/60Hz			

※Data on features are measured under the following condition) RT 25°C, AC100V, 50Hz, and no load. ※When using a shaker in the chamber, the lowest point of temperature control range is RT+10°C. The temperature in the chamber also fluctuates. ※Input power source does not include service outlet in the chamber. ※Dimension in the parentheses includes the protruded parts.



■ Control panel



Suitable for personal use

- ◆ Small sized and lightweight personal type with 395W × 355D(mm) and 14kg. Large capacity of 16L in which 18 petri dishes of ø90 can be placed (when 3 shelves are used). The unit is equipped with 2 shelves.
- ◆ Auto-start/stop, Timer functions are equipped.
- ◆ Anti-bacterial stainless steel is used inside the chamber. This material keeps away bacteria from developing.
- ◆ By using optional bracket, such space-saving installing is available as placing SLI-220 over another SLI-220 or placing SLI-220 on top of LTI-2000. By setting different temperature for each unit, it can be used as multi-tiered incubator.

Product		Incubator
Model		SLI-220
Catalogue No.		197980
Air force		Air jacket convection
Features	Temp. range	RT+5~60°C
	Temp. control accuracy	± 0.5°C (setting at 37°C)
	Temp. uniformity	2.0°C (setting at 37°C)
	Temp. control	P.I.D. Control SSR output
Functions	Temp. setting/display	Membrane key/digital readout
	Timer functions	Auto-start, Auto-stop 1, Auto-stop 2
	Safety functions	Alarm (Door open, Upper limit temp., Sensor, Power failure watchdog, Fuse, Independent overheat protector (fixed at 70°C))
Composing	Heater	100W
	Temperature sensor	Thermistor
Spec.	Chamber dimension/capacity	310W × 240D × 220H(mm)/16L
	No. of shelf	2
	Shelf maximum load	Uniform load max. 3kg/shelf
	Chamber material	Anti-bacterial stainless steel
Ambient temp. for operation		5~35°C
Overall dimension		395W × 355(375)D × 420H(mm)
Net weight		Approx. 14kg
Input power source		150VA
Rated power source		AC100V, 50/60Hz

*Data on features are measured under the following condition: RT 25°C, AC100V, 50Hz, no load, preset temperature: 37°C.

Optional accessories

- Clamp for placing one unit over another (for two SLI-220) HSD-220

Cat. No. 198010

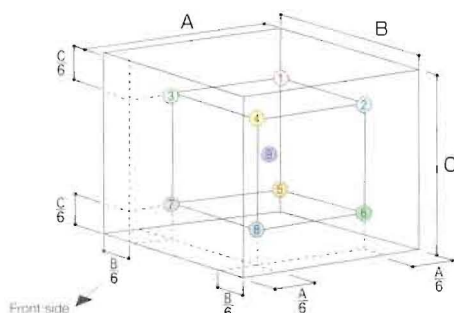
- Clamp for placing one unit over another unit (for SLI-220 and LTI-2000) HSD-221

Place SLI-220 on top of LTI-2000.

Cat. No. 198020



Data of temperature distribution

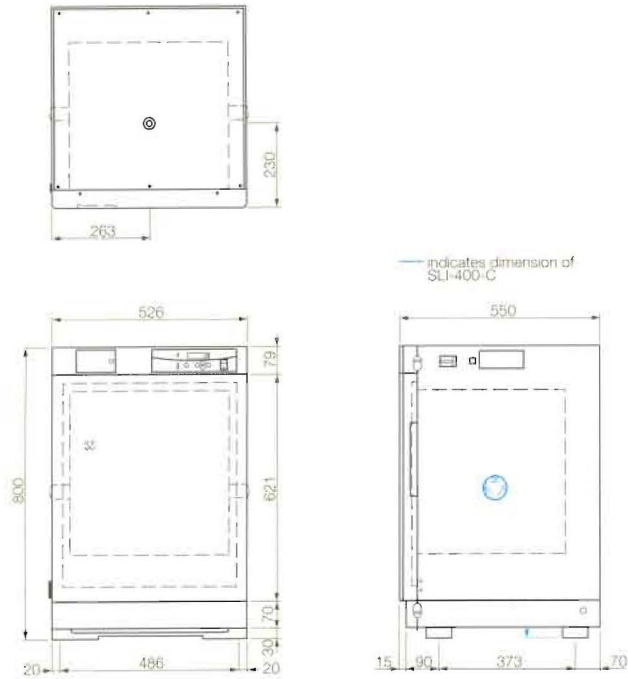


Below data are measured under the condition as follow:
Preset temperature: 37°C, Room temperature: 25°C, AC: 100V, 50Hz, no load.

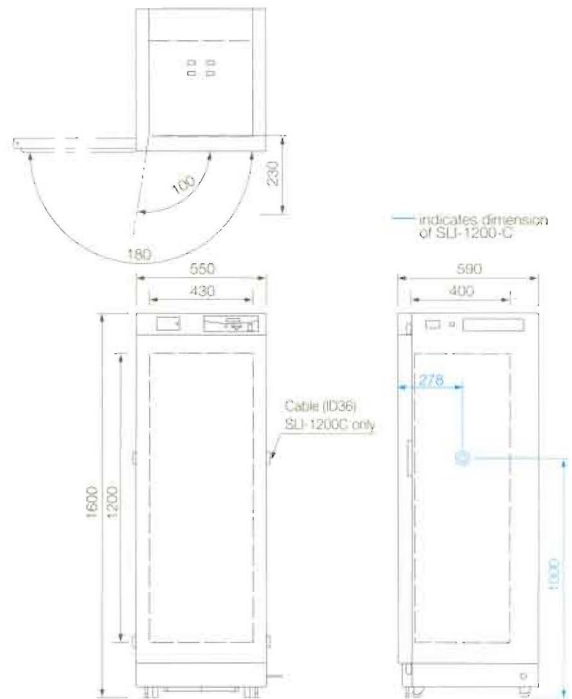
Measured point	Average temp.(°C)	Max. temp.(°C)	Min. Temp.(°C)
①	36.7	36.8	36.5
②	37.9	38.3	37.5
③	37.1	37.3	36.9
④	36.9	37.1	36.7
⑤	37.3	37.4	37.1
⑥	38.2	38.7	37.6
⑦	36.3	36.5	36.1
⑧	36.4	36.5	36.2
⑨	36.8	37.0	36.5

Overall dimensions of SLI series

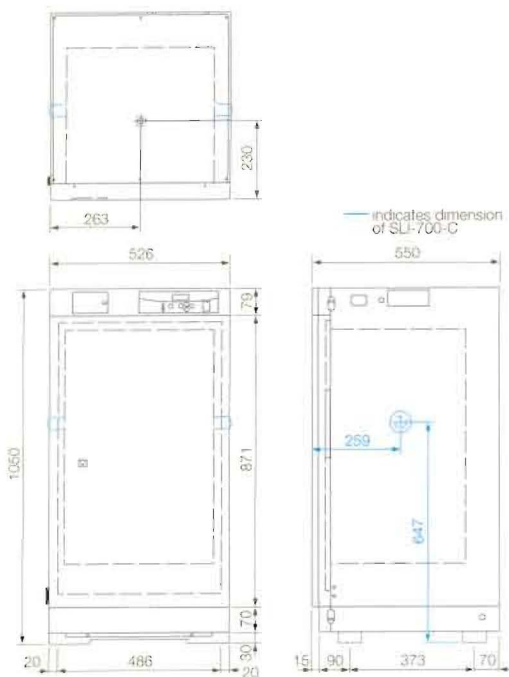
SLI-400



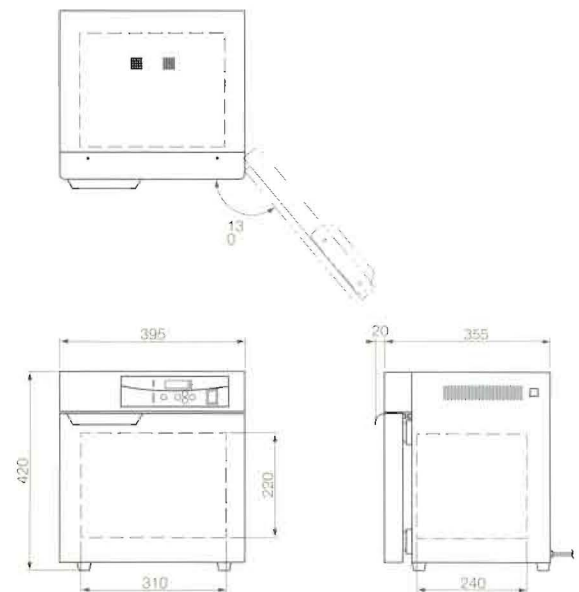
SLI-1200



SLI-700



SLI-220



Low Temp. Incubator for Space-saving and Energy-



Control panel



Space-saving and Energy-saving design

- ◆ Slim sized unit with 600mmW. LTI-700(W) and LTI-1200(W) can be aligned neatly.
- ◆ Required power consumption is as below;
1) For Model 700 and 700W: 5A or less
2) For Model 1200 and 1200W: 7A or less
More than one unit can be installed when power supply is 15A
- ◆ Opening side of the door can be changed, which allows users to install the instrument in any location.

Right/left side of door open



Opening side of the door can be changed with a little replacing work by lever operation. (At the time of shipment, door opens right side.)

Safety design

- ◆ Alarm indication and buzzer notify when the unit recovers from power failure or any trouble occurs.
- ◆ Overheat protector independent from control board is installed. Available range of temperature is between 30~70°C for overheat and -20~20°C for overcool.
- ◆ Optional accessories of adjuster and table with casters are available for LTI-700. LTI-1200 is equipped with adjuster-attached casters.



Designed easy-to-conduct constant temp. test and culturing

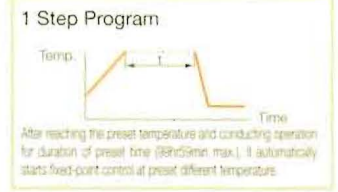
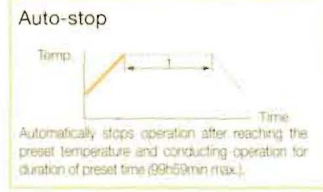
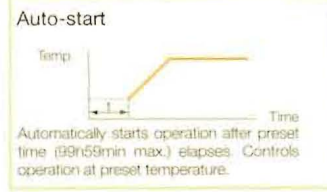
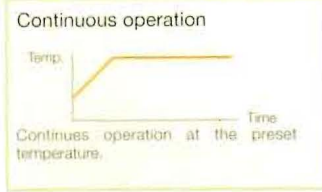
- ◆ Self-defrosting with checking the room temperature and set temperature allows longer continuous operation and helps to prevent the chamber from drying.
- ◆ Cable ports are located at right and left side of the unit, which enables users to use either of them depending on installation location. Culture microbe can be performed by placing the shaker in the chamber. (Optional shelf for shaker installation is required).
- ◆ Detachable shelf, shelf support and shelf pillar inside the chamber makes cleaning of the chamber easy. Anti-bacterial stainless steel inside the chamber helps to keep away the bacteria from growing.
- ◆ Function to compensate the indicated temperature to the measured temperature in the chamber assures more accurate temperature for testing.
- ◆ W series are equipped with a window, which allows to observe the status inside the chamber without opening the door.

saving $-10^{\circ}\text{C}\sim 60^{\circ}\text{C}$

SLI-700, 700W, 1200, 1200W

Timer and Program functions

◆ Auto-start/stop functions are included as standard feature. 1 Step Program function is also installed to shift from culturing temperature to storage temperature.



■ Data of temperature distribution (under AC100V, 50Hz, no load, RT 20°C, set temp. 37°C)

LTI-700

Measured point	Temp.(°C)	Control accuracy(°C)
Up/back/left	36.82	± 0.10
Up/back/right	36.74	± 0.10
Up/front/left	36.76	± 0.10
Up/front/right	36.77	± 0.10
Center	36.54	± 0.04
Down/back/left	36.49	± 0.15
Down/back/right	36.69	± 0.10
Down/front/left	36.27	± 0.10
Down/front/right	36.51	± 0.10

LTI-700W

Measured point	Temp.(°C)	Control accuracy(°C)
Up/back/left	36.95	± 0.10
Up/back/right	36.87	± 0.10
Up/front/left	36.91	± 0.15
Up/front/right	36.89	± 0.15
Center	36.56	± 0.08
Down/back/left	36.52	± 0.10
Down/back/right	36.78	± 0.10
Down/front/left	36.40	± 0.10
Down/front/right	36.39	± 0.10

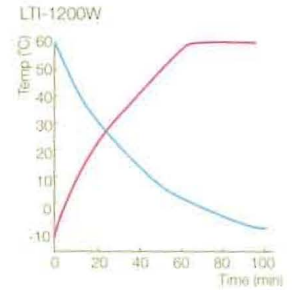
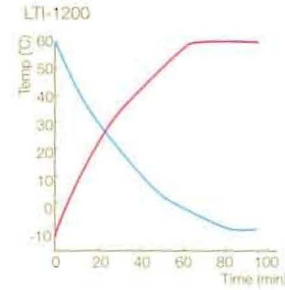
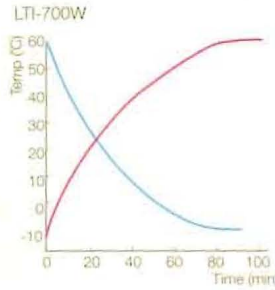
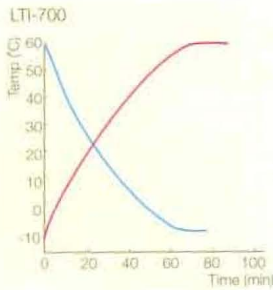
LTI-1200

Measured point	Temp.(°C)	Control accuracy(°C)
Up/back/left	36.68	± 0.10
Up/back/right	36.27	± 0.05
Up/front/left	36.47	± 0.05
Up/front/right	36.60	± 0.10
Center	36.74	± 0.05
Down/back/left	36.60	± 0.05
Down/back/right	36.47	± 0.05
Down/front/left	36.05	± 0.05
Down/front/right	36.36	± 0.05

LTI-1200W

Measured point	Temp.(°C)	Control accuracy(°C)
Up/back/left	36.79	± 0.10
Up/back/right	36.36	± 0.05
Up/front/left	36.57	± 0.05
Up/front/right	36.69	± 0.10
Center	36.80	± 0.04
Down/back/left	36.61	± 0.05
Down/back/right	36.49	± 0.05
Down/front/left	35.65	± 0.15
Down/front/right	35.82	± 0.10

■ Warming/cooling curve (under AC100V, 50Hz, RT20°C, no load, measured at center of chamber)



Optional accessories

■ Shelf for shaker installation HSI-2

(for LTI-700, 1200 installation only)
Necessary for installing shaker in the chamber.
Cat. No.197560



Example for shaker setting



Product		Low Temp. Incubator			
Model		LTI-700	LTI-700W	LTI-1200	LTI-1200W
Catalogue No.		197490	197500	197510	197520
Features	Air flow	Air jacket natural convection			
	Temp. range	-10~60°C			
	Control accuracy	± 0.1~0.2°C when controlling heater/ ± 1.5~2.0°C when controlling Refrigerating unit ON/OFF and heater/ ± 0.1°C when 37°C setting			
Functions	Uniformity	1~3°C (2~5°C for 1200W) when controlling heater/5°C for 700, 700W and 7°C for 1200, 1200W when controlling Refrigerating unit ON/OFF and heater/1°C (2°C for 1200W) when setting at 37°C			
	Temp. control	Microprocessor P.I.D. control			
	Temp. setting/display	Membrane key switch, Digital readout			
Composing	Equipped functions	Auto-start, Auto-stop, 1 Step Program			
	Safety functions	Door open alarm, Upper/lower limit alarm, Sensor alarm, Temp. control fault alarm, Power failure alarm, Breaker for electrical leakage and excess current, Overheat/overcool protector, Overload relay for refrigerating unit			
	Heater	Stainless steel sheath heater 200W		Stainless steel sheath heater 350W	
Spec.	Temp. sensor	Air-cooled rotary compressor 200W		Air-cooled rotary compressor 300W	
	Chamber material	HFC			
	Chamber dim. (mm)	500W × 400D × 700H		500W × 400D × 1200H	
Spec.	Chamber capacity	140L		240L	
	Shelf maximum load	15kg/shelf		5	
	No. of shelves equipped	3		5	
	Service outlet	200W × 540H(triple glass)		200W × 1040H(triple glass)	
	Cable port	Anti-bacterial stainless steel			
	Recorder output	2 ports ID 40mm			
Ambient temp.		5~35°C			
Overall dimension		600(632)W × 655D × 1186H(mm)		600(632)W × 655D × 1186H(mm)	
Net weight (approx.)		83kg	87kg	112kg	119kg
Input power source		0.5kVA		0.7kVA	
Rated power source		AC100V, 50/60Hz			

※ Data on features are measured under the following condition; RT 20°C, AC100V, 50Hz, and no load. ※ Heater control (set at RT+5.1°C min.) and Refrigeration unit ON/OFF heater control (set at RT+5.0°C min.) fluctuate depending on the ambient temp. ※ Dimension in the parentheses includes the protruded parts.

Low Temp. Incubator with programmable control -10(4)~60°C



Control panel



Safety design

- The status of resuming operation after power failure is selectable either to continue the program or to stop the operation with program saved.

Designed easy-to-conduct Constant temp. test and Culturing

- Equipped with auto tuning function that is able to perform proper temperature control depending on the load in the chamber, and correcting temperature function that is capable of correcting displayed temperature with actual measured temperature in the chamber. These functions ensure the accurate temperature control.
- Cable ports are equipped as standard feature, which enables users to install the shaker in the chamber for culturing.
- ED series are air jacket convection type. This unit curbs the drying of surface of samples such as culturing substances and agar media which should be kept from drying. (LTI-601ED-N, ED, 1001ED)
- Switching between ordinary operation mode (**INT. mode**) and short-term operation mode (**CONT. mode**) meets your requirement for operation.

INT. mode — Conducts automatic defrost operation. Continuous long-term operation is available.

CONT. mode — Continuous operation of refrigerating unit provides highly accurate temperature control with $\pm 2^{\circ}\text{C}$ fluctuation.

Support the operational validation



Standard model is equipped with temperature correcting function. Optional accessories such as recorder output terminal and RS-232C connector are available to support the validation.

Spec. for Recorder output terminal/RS-232C connector

Oven model	Option Spec.	Option model	Cat. No.
LTI-601SD	with Recorder output terminal	LTI-601SD-R	181471
	with RS-232C connector	LTI-601SD-C	181472
	with Recorder output terminal+RS-232C connector	LTI-601SD-RC	181473
LTI-1001SD	with Recorder output terminal	LTI-1001SD-R	181481
	with RS-232C connector	LTI-1001SD-C	181482
	with Recorder output terminal+RS-232C connector	LTI-1001SD-RC	181483
LTI-601ED-N	with Recorder output terminal	LTI-601ED-N-R	181791
	with RS-232C connector	LTI-601ED-N-C	181792
	with Recorder output terminal+RS-232C connector	LTI-601ED-N-RC	181793
LTI-601ED	with Recorder output terminal	LTI-601ED-R	181781
	with RS-232C connector	LTI-601ED-C	181782
	with Recorder output terminal+RS-232C connector	LTI-601ED-RC	181783
LTI-1001ED	with Recorder output terminal	LTI-1001ED-R	181801
	with RS-232C connector	LTI-1001ED-C	181802
	with Recorder output terminal+RS-232C connector	LTI-1001ED-RC	181803

*Recorder output is 0~1000mV (equivalent to $-20\sim 80^{\circ}\text{C}$)

Optional accessories

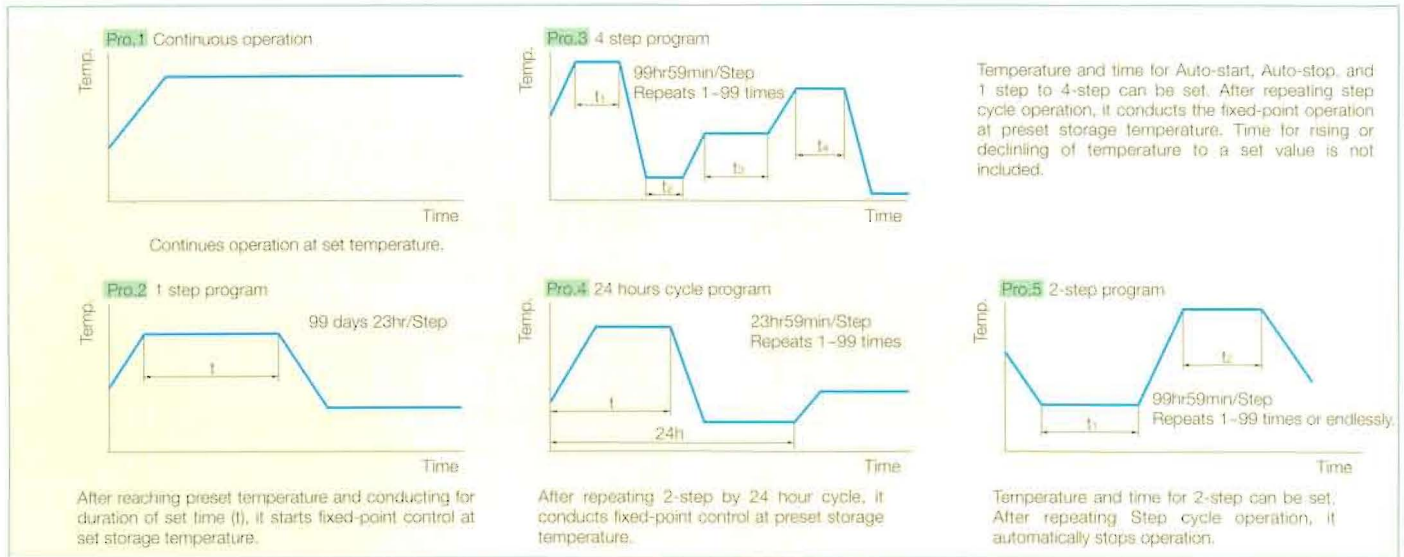
Communication cable RSC-1200 (4m)

Spec. Dsub25p-Dsub9p (cross)
Cat. No.167370

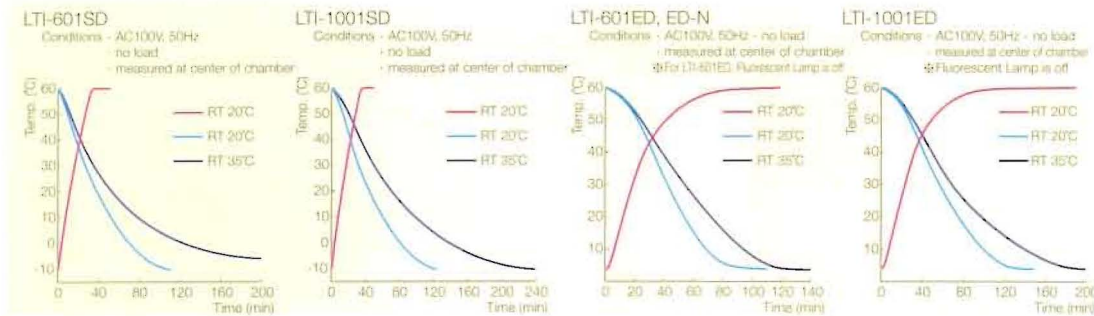
LTI-601SD, 1001SD LTI-601ED-N, 601ED, 1001ED

Program operation

◆5 programs are available including fixed-point continuous control. Step program by 24 hour cycle operation and time input up to 99 days 23 hours allows to automatically switch between constant temperature operation and storage.



Warming/cooling curve

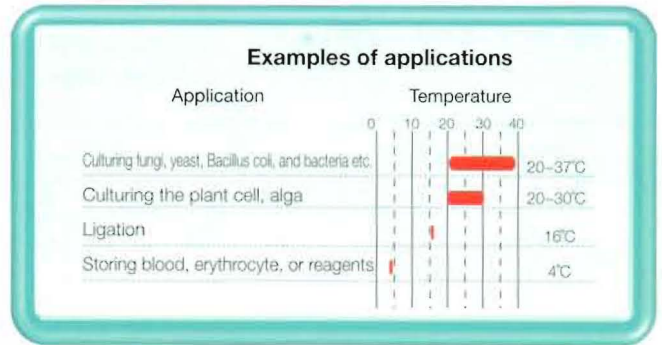


Inside Chamber



Product		Low Temp. Incubator				
Model		LTI-601SD	LTI-1001SD	LTI-601ED-N	LTI-601ED	LTI-1001ED
Catalogue No.		181470	181480	181790	181780	181800
Features	Air flow	Forced air flow			Air jacket natural convection	
	Temp. range	-10~60°C			4~60°C	
	Control accuracy	CONT. mode ± 0.2°C (-10.0~40.0°C) ± 0.1°C (40.1~60°C)			CONT. mode ± 0.2°C	
	Uniformity (CONT. mode)	2°C	3°C (set at -10~0°C) 2°C (set at 0~60°C)	2°C max (set at 20°C) 2~3°C max (set at 4~40°C)		3°C max (set at 20°C) 2~5°C max (set at 4~40°C)
Functions	Temp. control	CONT. mode (heater PID control, continuous operation of refrigeration unit)				
	Temp. setting/display	INT. mode (heater PID control, continuous operation of refrigeration unit, hot gas)				
	Defroster	Membrane key switch, Digital readout				
	Program	Microprocessor control (INT. mode), Forced manual (manual start/auto stop)				
	Safety functions	5 programs including fixed-point control				
Composing	Heater element	Breaker for leakage and excess current, overheat protect thermostat, alarm (input error, door open, upper/lower limit temp., power failure, overheat, heater fault, sensor fault, watchdog for overload of refrigeration unit)				
	Heater wattage	700W	900W	900W		1.1kW
	Refrigeration	Air-cooled rotary compressor Refrigerant: R22				
	Refrigeration output	200W	250W	300W		250W
Spec.	Lighting	White fluorescent lamp 10W (1A)				
	Chamber dim. (mm)	600W × 500D × 500H	600W × 500D × 1000H	600W × 500D × 500H		600W × 500D × 1000H
	Chamber capacity	150L	300L	150L		300L
	Shelf max. load	15kg/shelf				
	No. of shelves	2A (inside the chamber)				
	Service outlet	3	5	3		5
	Cable ports	One port on right side ID 40mm			One port on right side ID 40mm	
Ambient temp.	5~35°C			5~35°C		
OD(mm)	700(732)W × 735(845)D × 985H	700(732)W × 735(845)D × 1755H	760(777)W × 735(800)D × 1135H		760(777)W × 735(800)D × 1755H	
Net weight (approx.)	107kg	157kg	117kg		120kg	
Input power source	1.1kVA		1.4kVA		1.7kVA	
Rated power source	AC100V, 50/60Hz		AC100V, 50/60Hz		AC100V, 50/60Hz	

※Data on features are measured under the following condition: RT 20°C, AC100V, 50Hz, and no load. ※For LTI-601ED-N, 601ED and 1001ED, the difference between preset temperature and the measured temperature may occur by 3°C max. at 37°C setting. ※While defrost operation in INT. mode, temperature may fluctuate as follows: 1.0~2.0°C for LTI-601 ED-N, 601ED and 0.5~+1.0°C for LTI-1001ED (under RT 20°C, no load, and set temperature 4~40°C for all models). Duration of temperature fluctuating is 20~30min in every 2 hours for LTI-601ED-N, 601ED and 20~30min in every 1 hour for LTI-1001ED. ※When LTI-601SD and 1001SD conducts defrost operation in INT. mode, the temperature inside chamber may fluctuate by some 2.0~+4.0°C (at RT20°C). ※Dimension in the parentheses includes the protruded part. ■Mains plug is not equipped.



Capacity inside the chamber



Control panel



Product	Low Temp. Incubator (personal incubator)	
Model	LTI-2000	
Catalogue No.	188280	
Air force	Forced air flow	
Features	Temp. range	3.0-40.0°C
	Control accuracy	±0.5° max. (25 or 37°C setting)
	Uniformity	Temp. distribution range is 2°C max. (25 or 37°C setting)
Functions	Temp. control	Microprocessor P.I.D. control (auto-tuning control)
	Temp. setting	Digital setting by UP/Down key
	Defroster	Automatic control or forced manual control
	Safety functions	Breaker for leakage/excess current, Independent overheat protector, Sensor alarm, Upper/lower temp. limit alarm, Overheat, Heater alarm, Watchdog timer
Composing	Temp. sensor	Platinum Thermo resistance Pt100Ω
	Heater capacity	150W
	Heater material	Stainless steel sheath heater with fin
	Condenser	Peltier element, Air-cooling type
Spec.	Inner door	Tempered glass 1pcs
	Interior	SUS304
	Chamber dimension	280W × 190D × 200H
	Chamber capacity	approx. 11L
Ambient temp. for operation	5-30°C	
Overall dimension	395W × 451(474)D × 388H(mm)	
Input power source	350VA	
Rated power source	AC100V, 50/60Hz	
Net weight	approx. 22kg	

*While defrosting, temperature inside the chamber may temporarily fluctuate by some 3°C.

*Data on features are measured under the following condition:
RT20°C, AC100V, 50Hz, and no load.

Suitable for personal use

◆ Small sized personal type with 394mmW × 451mmD. Despite its compact size, the chamber capacity is 11L, large enough for placing either of ø90 petri dish × 24, ø16.5 test tube × 60, 300mL conical flask × 6, 50mL tube × 20 or 36 microplates.

◆ Another unit can be placed on top of this unit to save space.

Design for convenient Constant temp. test and Culturing

◆ Cooling system with peltier device attached provides Freon-free and clean temperature control. The system is suitable for constant-temperature test and culturing, the result of which should not be affected by vibration.

◆ Air flow in the chamber can be controlled: strong air flow when importance should be attached on temp. distribution inside chamber and weak air flow when samples drying out should be curbed.

Data (temp. distribution)

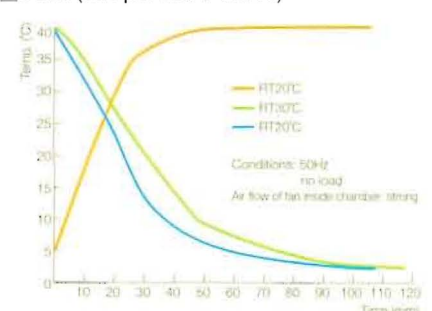
Measured position	Temperature (°C)		
	Set at 25°C, Strong air flow	Set at 37°C, Strong air flow	Set at 37°C, Weak air flow
Up/back/left	24.4	36.7	36.7
Up/back/right	25.3	37.2	37.2
Up/front/left	24.2	36.8	36.1
Up/front/right	25.1	37.5	37.5
Down/back/left	23.9	36.2	37.1
Down/back/right	24.9	37.3	37.6
Down/front/left	23.9	36.2	36.9
Down/front/right	25.5	37.4	37.3
Center of chamber	25.0	36.9	37.4
Temp. control sensor	24.6	37.0	37.0

Data (Control accuracy)

Set temp. (°C)	Air flow	RT (°C)	Control accuracy
4	Strong	5	3.90 ± 0.1°C
	Strong	20	3.90 ± 0.1°C
	Strong	30	3.85 ± 0.15°C
25	Strong	5	24.25 ± 0.15°C
	Strong	20	25.00 ± 0.20°C
	Weak	20	25.00 ± 0.20°C
37	Strong	30	24.90 ± 0.1°C
	Strong	5	36.20 ± 0.20°C
	Strong	20	36.90 ± 0.10°C
	Weak	20	37.30 ± 0.10°C
	Strong	30	36.80 ± 0.10°C
	Strong	30	36.80 ± 0.10°C

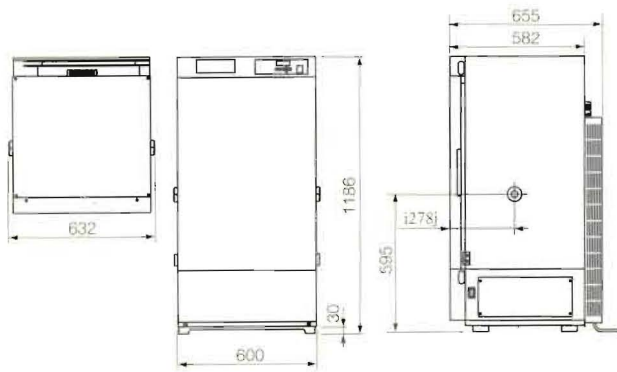
**Values are AC100V, 50Hz.

Data (temperature curve)

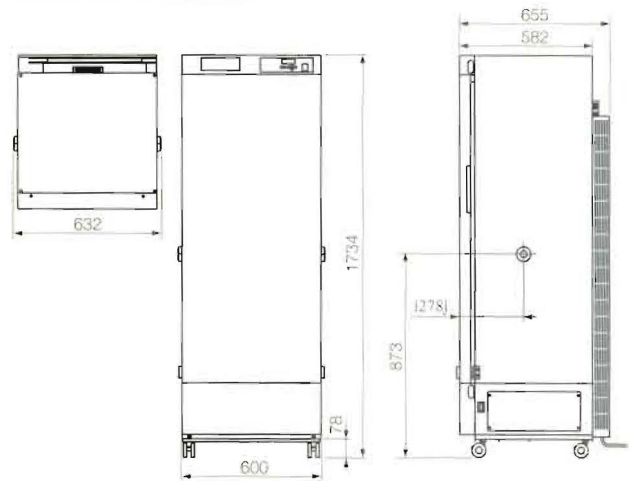


Overall dimensions of LTI series

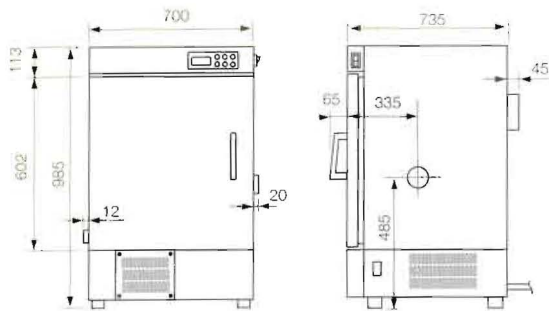
LTI-700(W)



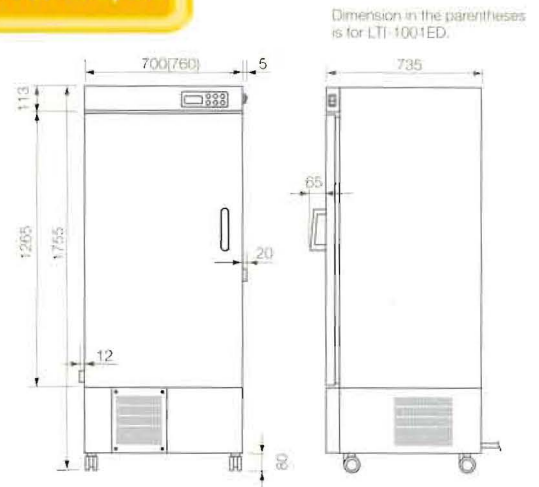
LTI-1200(W)



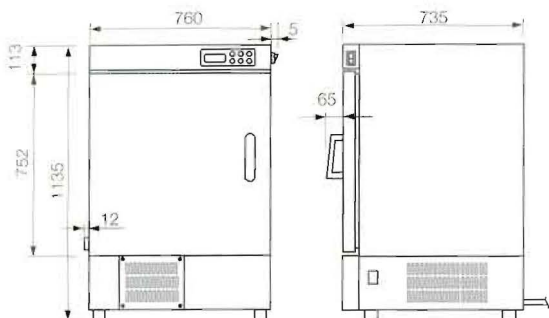
LTI-601SD



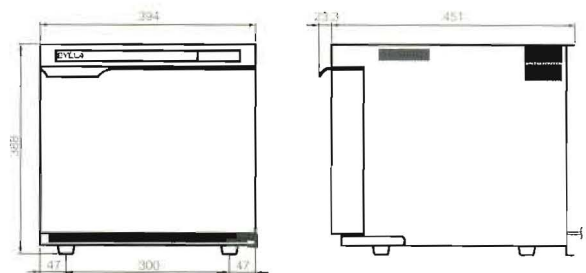
LTI-1001SD, ED



LTI-601ED-N, ED



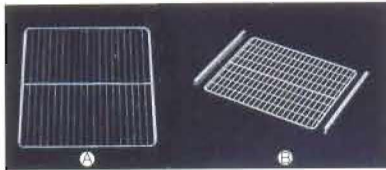
LTI-2000



Optional accessories/related products

Shelf

- For SLI-400, 700, 1200, 220
LTI-700, 1200, LTI-SD, ED series

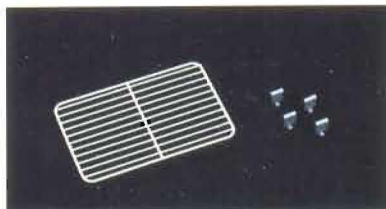


Specification	Cat. No.	Q'ty
LTI-700, 1200	197540	1
LTI-SD, ED	111610	1
SLI-400, 700, 1200	197290	1
SLI-220	198000	1

Ⓐ : for LTI-SD, ED series

Ⓑ : for SLI-400, 700, 1200 and LTI-700, 1200

- For LTI-2000



Product	Cat. No.
Shelf for LTI-2000	189450
Receiving clamp for LTI-2000	189460

Shelf support

- For SLI-400, 700, 1200
LTI-700, 1200, LTI-SD, ED series



Specification	Cat. No.	Q'ty
LTI-700, 1200	197550	1
LTI-SD, ED	100390	1
SLI-400, 700, 1200	197280	1

Table with casters

- For SLI, LTI series



For SLI-400



For LTI-700

Model	Cat. No.	Applicable model
HSS-43C	197530	LTI-700
HSS-41C	100320	LTI-601SD, ED
HSS-40CA	197720	SLI-400

Fittings for placing the unit on top of another unit

- For SLI



Two SLI-400 units can be placed, one top of another.

Model	Cat. No.	Applicable model
HSD-400	197230	SLI-400

Fittings for piling two units

Necessary for placing two SLI-220 units one over another or placing SLI-220 on top of LTI-2000.

Model	Cat. No.	Applicable model
HSD-220	198010	2 SLI-220 units
HSD-221	198020	SLI-220+LTI-2000

Recorder



SS-100F-MM

Model	Cat. No.	Applicable model
μRS-1000	172180	LTI-SD, ED
SS-100F-MM	130950	SLI-400-1200

Adjuster Caster

Cat. No.	Q'ty	Applicable model
197240	4	SLI-700, 400

Silicon stopcock for cable port

Cat. No.	Applicable model
111690	LTI-SD, ED
170240	SLI, LTI-700, 1200

EYELA



**Safety
precaution**

Please read "Instruction Manual" carefully before using the product for your continued safety.

※ Exterior and specification of the products are subject to change without notice due to continual improvements.
※ Please note that actual products may differ slightly in coloration from the pictures shown on this catalogue.

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