

Low Temperature Incubator Reduces electricity consumption by up to 72% (compared to conventional models) Contributes to reducing CO₂ emissions



LTE-510

LTE-1010

Model LTE-510 Model LTE-1010

Precise programmed operation from -10 to 60°C

Uses a low-power consumption fan that generates less heat. The control method changes according to room temperature, reducing electricity consumption by up to 72% (compared to conventional models). Energy-saving operation (ECO. mode) contributes to not only the reduction of electricity consumption but also CO₂ emissions.

Two types of control can be selected; ECO. mode for excellent energy-saving operation and CONT. mode for highly accurate temperature control.

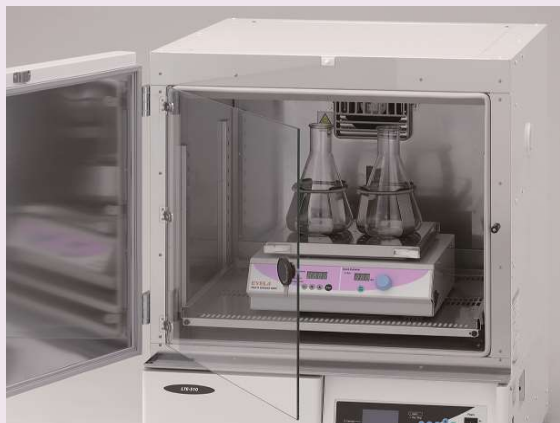
Programmed temperature controller with temperature ramp control is built-in. Programs include user programs with up to 8 segments, 1 and 2-step, 24-hour cycle programs, and other operations.

An interior door is provided as standard equipment, allowing clear observation of the inside of the chamber without worrying about temperature changes. Cable holes are provided on the right side of the main body. A shaker, temperature sensor and others can be placed inside the chamber.

Model	LTE-510	LTE-1010
Cat. No.	274408	274418
Convection	Forced convection system	
Temp. control range	-10 to 60°C	
Temp. control accuracy	ECO. mode: ±1.5°C (with refrigerator ON-OFF control), ±0.1 to 0.2°C (with heater control), CONT. mode: ±0.1 to 0.2°C	
Temp. distribution (w/heater control)	Spatial temperature deviation 0.7°C or less, temperature ramp 1.5°C or less (at 37°C)	Spatial temperature deviation 1.5°C or less, temperature ramp 2.0°C or less (at 37°C)
Temp. control	ECO. mode: refrigerator ON-OFF, CONT. mode: heater P.I.D. control + refrigerator continuous operation	
Defrosting	Automatic defrost (auto/timer), Manual defrost	
Timer	Auto start, Auto stop, Auto start + Auto stop	
Program	1 and 2-step programs, 24-hour cycle program, temperature ramp (up to 8 steps)	
Safety functions	Earth leakage/Overcurrent breaker/Variable independent overheat protector, Door switch, Refrigerator: High pressure switch, Overload relay (automatic recovery), Condenser fan: Thermal fuse, Blower fan in cabinet: Burnout prevention circuit, Temperature controller self-diagnostic function (Upper and lower temperature limit alarm, Heater/Sensor disconnection, Power failure, Watch dog, Refrigerator abnormal high pressure, Overheat, Door alarm, Temperature ramp failure)	
Heater	550W	700W
Refrigerator/refrigerant	Air-cooled type, Output 200W / R134a	Air-cooled type, Output 300W / R134a
Internal dimensions(mm), capacity	600Wx500Dx500H / 150L	600Wx500Dx1000H / 300L
Shelf load capacity, material, number of steps included	Equidistribution Max.15.kg/pc/PE coating x 2pcs	Equidistribution Max.15.kg/pc/PE coating x 4pcs
Shelf pitch/number of steps	30mmX11 steps	30mmX27 steps
Interior door and decoration	Tempered glass (1pc) / Stainless steel	Tempered glass (2pcs) / Stainless steel
Cable hole	1 on right side ID40mm	1 on right side ID40mm
Ambient temp. range	5 to 35°C	
External dimension (mm)/weight	700 (808)Wx730 (820)Dx890H / Approx. 91kg	700 (808)Wx730 (820)Dx1550H / Approx. 134kg
Power input/voltage	220VAC, 1kVA, 4.6A, 50/60Hz	220VAC, 1.2kVA, 5.5A, 50/60Hz

※Specifications are based on room temperature of 20°C rated power supply voltage, 50Hz with no load. ※Temperature control accuracy is based on automatic defrost (disabled) or at a setting of 25°C or higher. ※The performance of temperature distribution conforms to JIS C 60068-3-5 JTM K 07-2007 ("Performance Test Methods and Performance Display Methods for Temperature Test Chambers," Japan Testing Machine Association).
※Dimensions in parentheses () include protrusions, including drainage tank rack.

An interior door is equipped. A shaker can be stored inside the chamber



The standard tempered glass interior door minimizes temperature changes inside the chamber and allows a clear view of the chamber. By installing the shelf for shaker (optional), a shaker can be placed inside the chamber and performing shaking culture.

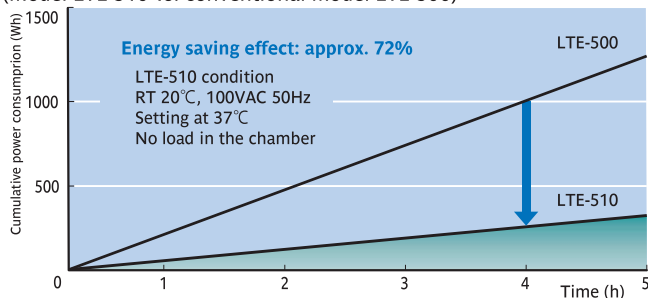
Two-tier stacking of LTE-510 is possible



Model LTE-510 can be installed on top of each other by using the optional two-tier stacking metal fixtures. Two incubators can be used without falling or shifting.



■ Comparison of energy consumption (Model LTE-510 vs. conventional Model LTE-500)



■ Running cost comparison
Comparison data: CO₂ emission and electricity cost

Model	CO ₂	Emission (kg/yr)	Reduction (kg/yr)	Electricity	Cost (yr)	Reduction (yr)	Max. saving effect
Conventional LTE-500	LTE-510	Emission (kg/yr)	927	258	258	JPY31,588	approx. 72%
		Reduction (kg/yr)	669	669	JPY22,772		
Conventional LTE-1000	LTE-1010	Emission (kg/yr)	1,167	333	333	JPY39,709	approx. 71%
		Reduction (kg/yr)	833	833	JPY28,343		

※Conditions are for continuous all-night operation 24hour a day, 365 days a year.
 ※CO₂emission reduction are based on the Tokyo Electric Power Company's emission factor of 0.441 (kg-CO₂/kWh). In CO₂Emission Factors for FY2020 (recorrected version) from TEPCO Energy Partners website. ※Electricity rates are calculated at 15yen/kWh contract power 100VAC, usage 500kW or more, less than 2000kW.

Options



Dedicated stand (For LTE-510)
HSS-41C
Cat. No.100320



Two-tier stacking metal fixtures
(For LTE-510)
Cat. No.274830



Interior light
LED white fluorescent light for interior observation, mounting plate and ON-OFF switch are included. Cat. No.275590



Hatch clip with keyhole
Cat. No.214250
※A padlock is not included.

Fluorescent light unit Model LU-1000

Day/night operation is available for algae culture and plant growth by controlling illumination.

Illumination: Approx. 3,000 Lx (center of chamber, 10Wx4 fluorescent lights)
 Program function: 24 hours (2 steps) digital
 LTE setting temperature range: 5 to 40°C

Power input: 2A, 200VA
 Power supply voltage: 100VAC, 50/60Hz
 Cat. No. 210430

※When installed on Model LTE-510, the effective height of the chamber becomes 278 mm.

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※The appearance and specifications of the products are subject to change without notice.