

# INCUBATOR

## Intelligent Artificial Climate Incubator

Model: RTOP-B/D series



RTOP-268 /310



RTOP-500



RTOP-1000

### ● Introduction

RTOP Intelligent Artificial Climate Incubator is a biological incubation experimentation instrument, which adopts microcomputer automatic control system, programmable control mode, and intermitting cooling. Through setting the multiple parameters, it is able to mimic a natural environment. It has illumination, temperature –constant, day and night shift automatically functioning. It is able to meet various biological incubation tests. Our incubator is able to apply to various areas such as seed germinate & breeding, plant group foster and planting, animalcule incubation, breeding of insects and small animals, anti-oxidation experiment of medicines and environmental experiments of articles; and it is especially applicable for the study of Bioengineering, Medical study, agricultural, Aquatic, Animal husbandry etc.

### ● Characteristic

- ▲ Micro-computer control, integrated control panel. Time, temperature, light, humidity, period etc. can be set.
- ▲ Over-temperature and sensor abnormality protection to ensure the equipment and sample safety.
- ▲ Full spectrum plant growth lamp, beneficial to plant growth, disease resistance
- ▲ A power-down protection, boot display after the state power of money, there are storage memory.
- ▲ Aluminum alloy frame, silver color and be able to the aging and deformation. With lock-door
- ▲ The device with wheel, move easily.
- ▲ Inside the incubator is grid structure, which can be adjusted as the sample's length, convenient and practical.
- ▲ the material of tank: stainless steel
- ▲ Anti-irradiation tempered- glass with coating to ensure a good insulation performance.
- ▲ About the light: Customized available, standard light is 5500lux. The max light available is: 15000lux.
- ▲ Optional capacity: 268L, 310L, 500L, 1000L

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### ● Technical parameters

Temperature range: 0-50°C

Temperature fluctuation:  $\pm 0.5$

Temperature uniformity:  $\pm 1^\circ\text{C}$

Humidity range: 50-95%

Humidity fluctuation:  $\pm 5\%\text{RH}$

Deviation:  $\pm 5\%\text{RH}$

Light grade: 0-3 grade (strong light: 0-8 grade)

Luminance: 0~15000LUX (5500lux default)

Heating power: 500W (RTOP-1000: 1000W)

Compressor power: 190W-320W

Compressor delay guard time: 3min

Noise: <70Db

Humidifier water tank capacity: 5L

Working mode: continuous operation (compressor intermittent working)

Working environment: temperature 0-40°C, humidity<80%RH; Non-corrosiveness gas

Power: 220 $\pm$ 22V, 50 $\pm$ 0.5HZ

**Temperature, humidity, light can be programmed to periods:**

Type B can be divided into day (period 01) and night (period 02)

Type D can be divided into 1-30 periods (include all functions of type B)

For seed germinating, you can choose 3500LUX:

For seedling germinating, 5500LUX is enough. More lux needed can be customized.

### ● Model Difference

Model	Volume	External Size(L*W*H)	Inner Size(L*W*H)	Temp range	Light degree
RTOP-268B RTOP-268D	268L	655*610*1760 mm	480*480*1040 mm	0~50°C	0~5500LUX
RTOP-310B RTOP-310D	310L	720*590*1900 mm	480*480*1290 mm	0~50°C	0~5500LUX
RTOP-500B RTOP-500D	500L	692*692*2000 mm	580*600*1310 mm	0~50°C	0~5500LUX
RTOP-1000B RTOP-1000D	1000L	1250*655*1895 mm	1230*600*1270 mm	0~50°C	0~5500LUX