

## Climate Incubator



### Introduction:

Climate incubators have become essential tools in agricultural breeding, ecological research, biomedicine, and related fields through environmental simulation. Their core value lies in the precise replication of natural conditions to reveal the response mechanisms of biological materials under different climates. They are precision-controlled devices that regulate light intensity, temperature, and humidity according to specific experimental objectives.

### Features:

- \* Mirror-finished stainless steel inner chamber with rounded corners(Four corners, semi-circular transition). Shelves or light panels are removable without tools, facilitating sterilization and cleaning of the work chamber.
- \* Capable of storing 30 programs, with a setting range of 1 hour to 99 hours 59 minutes per program.
- \* LED cold light source: stable, long-lasting, and energy-efficient. Provides precise, uniform illumination with a service life of over 50,000 hours and high photoelectric conversion efficiency.
- \* Microprocessor-controlled temperature, humidity, and light intensity. Capable of simulating diurnal(Day/night) temperature and humidity variations, as well as multidirectional light sources found in nature.

- \* User-defined parameters are automatically saved during power failure and resume operation according to the original program upon power restoration.
- \* Automatic circulation fan speed control prevents damage to plant seedlings caused by excessively high airflow velocity during experiments.
- \* Independent overtemperature alarm system: automatically interrupts operation when the set temperature limit is exceeded, ensuring safe experimental operation.
- \* The humidification method uses an external ultrasonic humidifier.

### Technical Parameters:

Model	BJPX-E280	BJPX-E380	BJPX-E460
Capacity	280L	380L	460L
Display	LCD touch screen		
Temp. Sensor	PT100		
Temp. Range	With illumination: 5~65°C Without illumination: 0~65°C		
Temp. Fluctuation	Heating: ±0.5°C Cooling: ±1°C		
Temp. Uniformity	±2°C		
Temp. Precision	0.1°C		
Timing Range	0~99h or continuous		
Humidity Range	50~95%RH		
Humidity Control Accuracy	±1%RH		
Humidity Control Fluctuation	±3~7%RH		
Light	0~5000Lux, customizable(Top lighting, stepless adjustable)		
Working Environment	Temperature: 0~30°C; Humidity: below 85%RH		
Power Supply	AC 220V, 50/60Hz(Standard); 110V, 50/60Hz(Optional, external transformer)		
Consumption	820W	950W	1050W
Shelf	2	3	
Standard Accessory	Shelf, independent temperature limit alarm system		
Optional Accessory	RS485, printer, USB, UV lamp, red light source		
Internal Size(W*D*H)	495*505*1040mm	495*525*1280mm	615*565*1280mm
External Size(W*D*H)	595*675*1650mm	595*675*1920mm	715*675*1920mm
Package Size(W*D*H)	660*740*1800mm	690*740*2060mm	790*740*2060mm
Net Weight	95kg	104kg	116kg
Gross Weight	106kg	116kg	132kg

Note: 1. Performance parameters are tested under no-load conditions at an ambient temperature of 20°C and ambient humidity of 50%RH.

2. Not intended for long-term refrigerated storage or for the culture of human-derived samples.