

INTELLIGENT ARTIFICIAL CLIMATE CHAMBER



TP-R420C

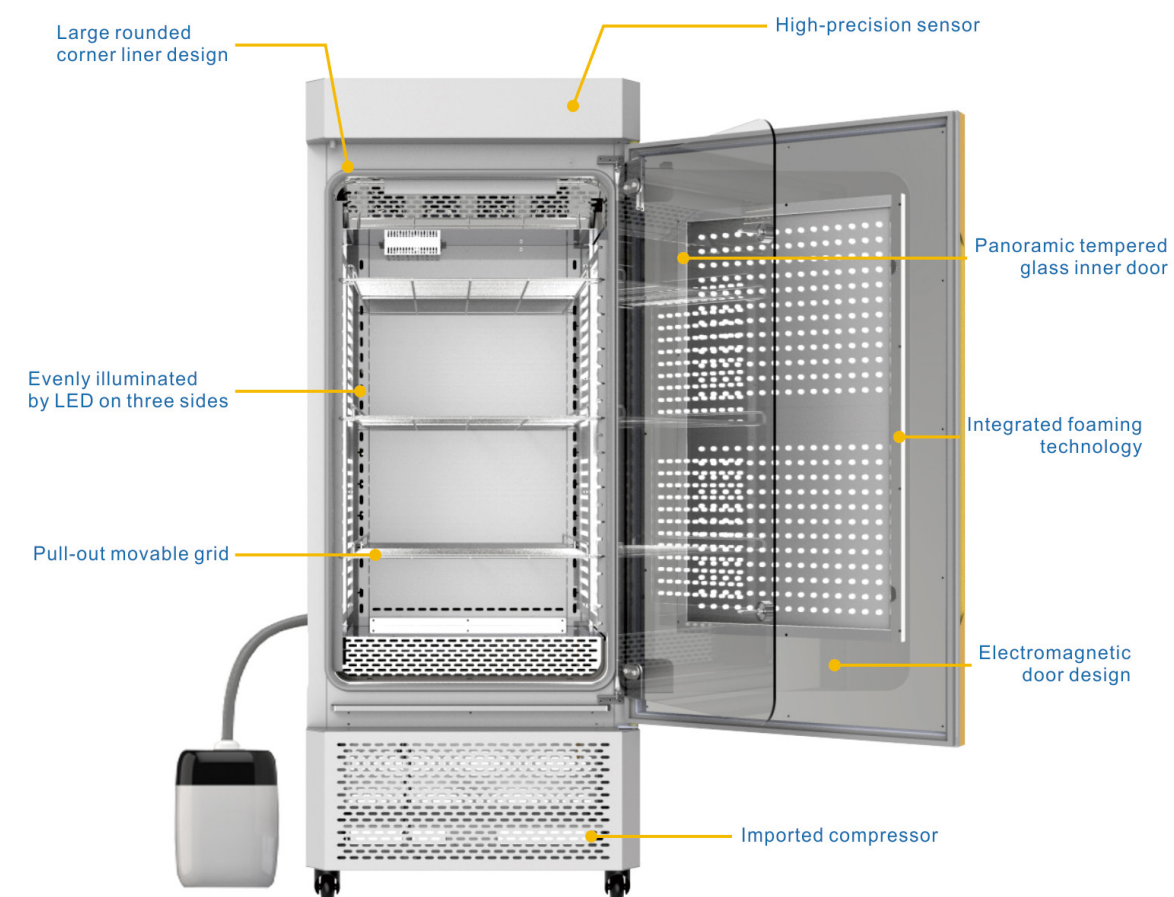


TP-R1000C

Introduction

The TP-R series accurately control the temperature, humidity and light intensity, and provide an ideal artificial climate environment for various experiments. The product can be used as seed germination, seedling, plant growth and cultivation, microbial culture, drug antioxidant test, insect feeding, small animal feeding, tobacco experiment, material aging and other uses of constant temperature, constant humidity, light and other experiments, is an important artificial climate training equipment for agricultural science, colleges and universities and other scientific research institutions.

Internal Structure



Features

- **Intelligent control system:** Temperature, humidity, and light intensity can be precisely controlled.
- **Abnormal alarm reminder:** The device has the functions of opening the door over-time alarm, temperature overrun alarm, and sensor failure alarm.
- **A number of safety protection functions:** with leakage protection, fault circuit protection, over-temperature protection, compressor overload protection, current overload protection and other functions.
- **Power-down memory function:** After a power failure, the original working state can be continued when the machine is turned on again.

- **Time period setting function:** Multiple time periods can be set, and the running time of each time period can be set separately.
- **Defrost function:** defrost on demand and precisely control the temperature of the chamber.
- **Sterilization function:** ultraviolet sterilization, automatic shutdown of sterilization function at the end of the set time.
- **Remote data viewing:** Support APP, WeChat, and cloud platform to remotely view data and curves.

Model Comparison

Model	TP-R420C	TP-R1000C
Volume	420L	1000L
Dimensions	762*765*1900mm	1552*765*1940mm
Temperature range	When the light is off: 0~50℃ When the light is on: 10~50℃	
Temperature fluctuations	±0.1℃	±0.3℃
Humidity range	50 ~ 95%RH (when the temperature of the box is 10~50℃) 50 ~ 80%RH (when the temperature of the box is 50~55℃) 50 ~ 60%RH (when the temperature of the box is 55~60℃) <50%RH (when the temperature of the box is 60~65℃)	50~95%RH (when the temperature of the box is 10~50℃) 50~70%RH (when the temperature of the box is 50~55℃) <50%RH (when the temperature of the box is 55~60℃) <40%RH (when the temperature of the box is 60~65℃)
Humidity fluctuations	±2%RH	±3%RH
Light intensi-ty	0~22000LUX (Higher lighting can be customized)	0~22000LUX
Lighting method	Surrounded by light sources on three sides	

Technical parameter

Light intensity range	0~22000LUX
Temperature control method	Smart PID when balanced
Procedural Competence	Up to 30 experimental programs can be stored by default
Light intensity progression	0~100%
Temperature setting method	Capacitive touch settings
Multi-time control	1~99 segments
Combined maximum power	1200W(420L);2500W(1000L)
Enter the power supply	AC220V/50Hz10A (420L) AC220V/50Hz16A (1000L)
Communication interfaces	Standard configuration supports network port RJ45, WIFI, USB data port, and IoT functions
Other features	The electromagnetic lock can set the password independently, automatically reduce the brightness when the door is opened, and automatically stop the works when the inner door is opened
Alarm and protection	Door opening overtime alarm, temperature overrun alarm, sensor fault alarm, plug with leakage protection, overtemperature protection, compressor overload protection, leakage protection, current overload protection