RAKAPOSHI- PTC Plant Growth Chamber
Temperature, Humidity Illumination

LCD Touch Screen

Download Catalogue

- **Light Culture of Microorganism**
- **Cell Tissue**
- **Seeding**
- **Insect and small animal under the control of precise humidity**

Independent Humidification
Humidity is uniform

Forced Air Circulation

Programming
30 Segments Program Control

High Temperature Uniformity

Parameter Control by Wi-Fi
.. Optional control working parameter by Smart Phone

The COLO RAKAPOSHI-PTC Growth, Climate Humidity Illumination Test Chambers, are designed to be the ultimate device in your laboratory where you can, under precise temperature, illumination, humidity, conditions, cultivate bacteria for microbial testing, incubating of cell cultures for in vitro fertilization...

Precision temperature sensor, programmable thermo controller, interior and exterior made of high quality materials, will give your work precision and comfort

Forced air circulation microprocessor controlled, provide high temperature uniformity in chamber and protect your samples. High quality corrosion resistant material is ideal for easy cleaning and long term exploitation. The short heat up time saves your time during the work process. High quality insulation prevents heat loss and saves your energy

The inner chamber, the preheating chamber and the inside of the door are made of stainless steel

Horizontal multi-layer bidirectional airflow inside the chamber

Programming the day/night cycle

Water desalination system compatible with the chamber

Using illumination cassettes provides flexible placement options which ensures homogeneous

light distribution over the entire usable area. The light qualities are individually selectable.

Fan speed regulation full 0-100%

Humidity regulation with capacitive humidity sensor and vapor humidification

Intuitive touchscreen controller with time-segment and real-time programming with internal data recording

Internal data logger, measured values can be read in open format via USB

Self testing

LCD color display

Tightly-sealed inner door made of tempered safety glass

Door heating

Preheating chamber

Please note
If this Test Chamber match the specific needs of your application, or some options are not listed for sale, please feel free to contact us. Our manufacturing engineers will come up with technical solutions to meet your needs. We reserve the right to change technical specifications at any time.

RAKAPOSHI-PTC	500I	600L	700L
SKU			
Volume Litter	500	600	700
Working mode	Temperature / Illumination/ Humidity		
Air Circulation	Forced Air Circulation (Convection)		
Temperature range	0 - 70°C w/o illumination / with humidification 10 - 60°C		
Standard Wi-Fi temperature control	Yes		
Temperature resolution	0,1°C		
Temperature uniformity	±1°C		
Temperature motion	±1°C		
Humidity range	10%～80%RH		
Humidity stability	±5%RH		
Humidifying method	Evaporation		
Humidity control	Automatic		
Light data per Illumination Cassettes	Daylight tubes [lx13000, growth lamps [lx] 10500		
Illumination	3 illumination cassette, each cassette 5 fluorescence tube, Ful Spectrum 0-30000LX LED lamp		
Display controller	Real time curve of temperature and humidity		
Display type	7.0 Inch true colour LCD touch screen		
Temperature control mode	PID intelligent, sensor deviation correction, self-tuning, Wi-Fi temp controls is optional		
Ramp programming 30 steps	25 timing program with 100 program section in each		
Timer	0-9999min with timing wait function		
Test hole	Ø52mm		
Housing	Cold rolling still with electro static spraying exterior		
Temperature sensor	Pt100 A Class		
Humidity sensor	High precision anti-condensation		
Built in UV germicidal lamp	Yes		
Inner chamber light	Yes		
Controlled external power supply	Universal socket (one)		
Inner glass observation window	Yes		
Auto fan speed regulation	Yes		
Self-diagnostic function	Yes		
Independent temperature safety	Yes		
Operation function	Temperature settings, timing function, auto stop, internal parameter locking, temperature correction, auto tuning, parameter memory in the case of electrical cut off, over temperature sound and light alarm		
Standard/Optional shelf number	2/4	3/4	3/5
Shelf Space	120 mm		
Load per shelf (max)	45kg		
Voltage	220V/50 Hz		
Inner chamber size W*H*D mm	650*785*845	650*1270*485	970X1250X576
Exterior Size W*H*D mm	925*1465*800	925*1950*805	1250*1925*890
Permitted load [kg]	100	120	150
Standard Temperature Certificate (optional)	At 40°C in the chamber centre Issued by COLO technical service		
Optional accessories	One or multi point temp, mapping, issued by accredited laboratory, Shelf, RS485 interface, Printer, Program Temperature Control device, Remote control, Wi-Fi remote control, USB data storage, Light box with different light colour illuminate, CO2 Concentration control, SMS Alarm, Smart Phone,		