

BPC600H/C

JIUPO Makes Plant Growth Easier



Technical Specifications

<i>Technical Specs BPC600H/C</i>		
	Standard	Option
Temp. Range		
Lights ON	+3°C to +45°C	-
Lights OFF	+3°C to +45°C	-10°C to +45°C
Temp. Display Precision	0.1°C	
Temp. Fluctuation	±0.5°C	
Temp. Uniformity	±0.5°C	
Humidity Range		
Lights ON	50% RH to 90% RH	30% RH to 99% RH
Lights OFF	50% RH to 90% RH	30% RH to 99% RH
Humidity Display Precision	0.1%RH	
Humidity Fluctuation	± 2.0%RH	
Humidity Uniformity	± 3.0%RH	
Temp. & Hum. Sensor	Equipped with VAISALA HMP60	
Control System	Programable Man-Machine Interactive Control system with 7" Touch Screen	
Smart Phone APP Remote Control System	Equipped with smart phone APP remote control system	
Fresh Air System	Equipped with fresh air system	
Growing Space	603L	
Shelves	Equipped with 4 modular shelves	
Max. Growing Height	130 cm	
Lights & Intensity	LED lighting panels & 300µmol/m ² /s (@10cm from the lights)	
Lights Color	Cool white	One/three/four/eighteen color(s)
CO ₂	-	Ambient to 2000/5000 PPM
Electrical Supply	AC 110-277V ±5%, 50/60Hz, 12Amp	
Peak Power Consumption	2.5KW	
Warranty	12 months	

Note: Lights with a different spectrum are available on request

Product Overview/Applications

- BPC600H/C is specifically designed for plant growth light sufficiently for quality studies and other experiments requiring with specific wavelengths or full-spectrum wavelengths of light, capable of achieving extreme conditions of temperature, lighting levels and humidity. This product is well suit for research applications which requiring a high level of control in a relatively small footprint. In addition to customizable environmental control parameters, options are also available for growth height, gas levels. This chamber offers a maximum growth height of 51.2" (130cm) or a 17.9 ft² (1.67m²) growth area.
- Many other applications exist for this product.

Lighting System

- This facilitates precise light intensity levels to be maintained throughout the life of experiment. Standard light intensity is 300 $\mu\text{mol}/\text{m}^2/\text{s}$ (@10cm from the lights), which is measured by a quantum light meter and transmitted to the controller for user readout.
- Standard color choices include cool white, full-spectrum LEDs.
- Non-standard color choices include blue, red, far red, red-blue-far red combination, red-green-blue combination, red-blue-far red-white combination LEDs.
- Non-standard light intensity choices include 500/700/1000/1600 $\mu\text{mol}/\text{m}^2/\text{s}$ (@10cm from the lights).
- Each color of the lights is independently regulated and dimmable between 0% to 100%.
- Programming and control of the lighting is done via JIUPO real time controller.

Air Flow

Airflow for this chamber is distributed uniformly outward from both sides of the walls and back through the air pump on back side of the cabinet, which using JIUPO innovative horizontal-air-refresh distribution plenum. Airflow is sufficiently to ensure uniformity as well as proper air exchange on the leaf surface. Fresh air intake can be adjustable which also helps to ensure adequate ambient gas exchange.

Refrigeration

- Self-contained air-cooled condensing unit with hot air bypass system for continuous compressor operation, extended life and close temperature control. An electronic modulating valve provides tight temperature control while ensuring quiet operation. Pressure transducers are included for monitoring the status of the refrigeration system.
- Solenoid valves have extended stem for quiet and long-life operation.
- Rear chamber wall mounted evaporator coil incorporates an air circulation fan.

Safety Limit Controls

- Adjustable high and low temperature/humidity/pressure controls, audible alarms, and visual indicators display on the screen.

- Controls shut down all power to the chamber, activating alarms (when the temperature/humidity /pressure returns to the normal range, the system will automatically reset).
- Backup “high/low” alarms provide a further level of protection while visual and audible notification is provided when any alarm be activated. Contacts for connection to a remote management system are also included.

Key Product Attributes

- Counterbalanced Lighting system
- Standard lighting provides a wide spectrum at high intensity
- Certifications: ISO9001:2015, CE, RoHS

BPC600H/C | with Expanded Temperature and Humidity Range

The JIUPO BPC600H/C ensures absolute constant test conditions throughout the research area. A big advantage of this chamber is its low space requirement and flexibility in terms of water supply. The wide temperature and humidity range make this constant climate chamber ideally suited for stress using series.

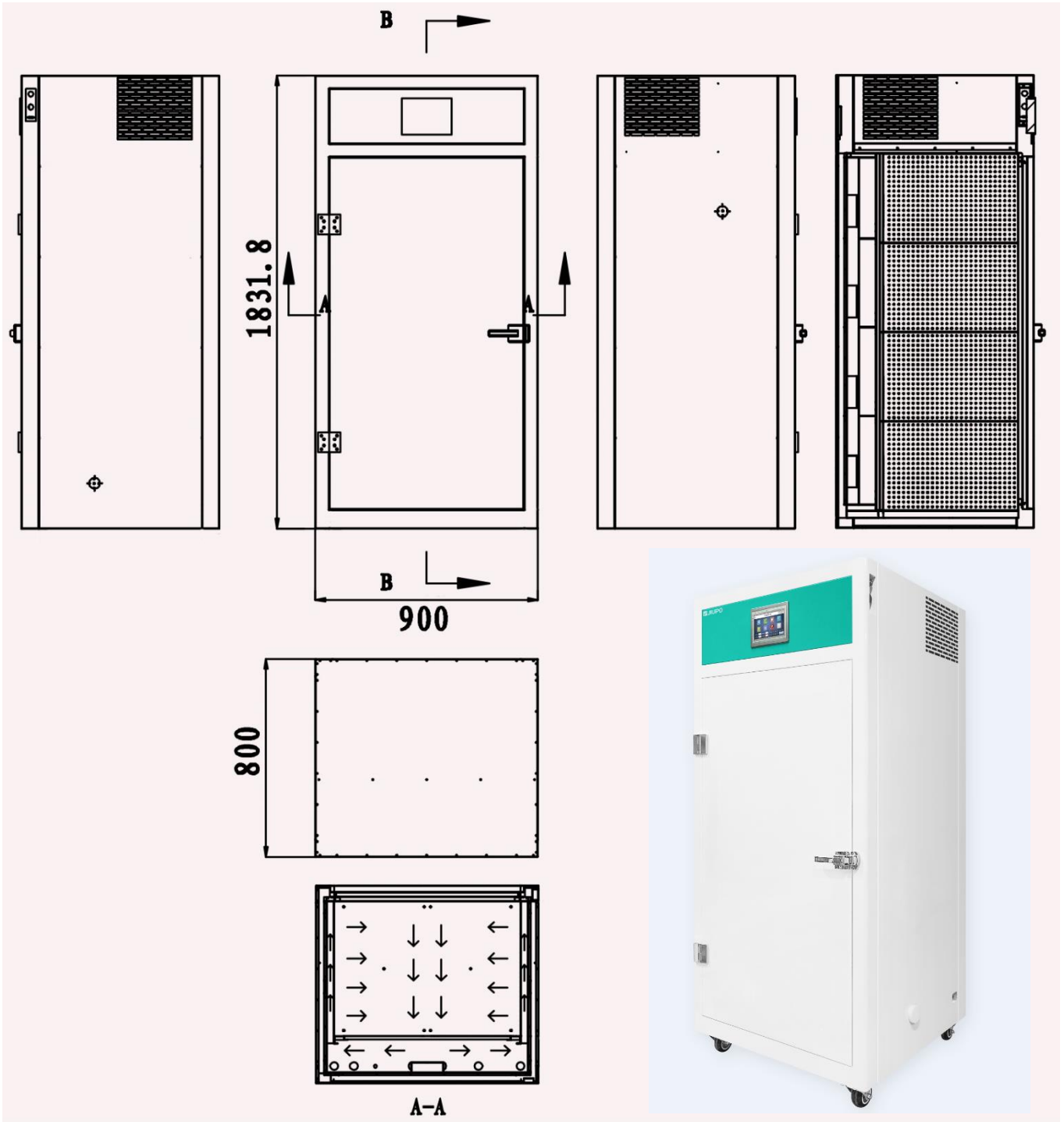
Main Features

- Temperature range: +3°C to +45°C
- Humidity range: 50% RH to 90% RH
- Programmable lighting conditions under regulated
- Temperature regulation with resistive temperature sensor
- Humidity regulation with capacitive humidity sensor and vapor humidification
- JIUPO Multi Management Software JPCS19V4 Basic Edition
- Equipped with smart phone APP remote control system
- Equipped with fresh air system
- LCD to display temperature and humidity along with additional information and alarms
- Independent temperature safety device with visual and audible temperature alarm
- Easily operate with reliable regulating system which works in tandem with an HMI (Human-Machine Interface) consisting of a touchscreen display
- Intuitive touchscreen controller with time-segment and real-time programming
- Internal data logger, measured values can be read out in open format via USB
- Flush-mounted door design for better air impermeability
- The chamber made of completely stainless steel (SUS304) inner parts and spraying carbon steel body shell
- Equipped with 4 stable castors and two with brakes, moveable to anywhere

Dimensions and Technical Drawings

Dimensions BPC600H/C

	Width	Depth	Height
Interior	753 mm	557 mm	1474 mm
Exterior	900 mm	800 mm	1940 mm
Packing	1020 mm	900 mm	2140 mm



Product Show



Plant Growing Cases



Transgenic Rice Growing



Haruna Growing



Tobacco Growing



Citrus Growing



Magic Bean Growing



Lupin Growing



Arabidopsis Growing



Soybean Growing



Potato Growing



Tomato Growing



Banana Growing



Chili Growing



Strawberry Growing



Corn Growing



Bamboo Growing



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