

PCR1000 Cabinet User Manual

Version 2020.07

Preface

Thank you very much for purchasing our PCR1000 cabinet.

Please read the “Operating Instructions” and “Warranty” before operating this unit to assure proper operation. After reading these documents, be sure to store them securely together with the “Warranty” within touch for future reference.



Warning: Before operating the unit, be sure to read carefully and fully understand important warnings in the operating instructions.

Disclaimer

Our Company shall not be liable for any equipment failure or damage, or for any direct or indirect damage that may occur during the use of the equipment.

1. Malfunction or damage due to violation of the instructions, precautions, and intended use of this manual.
2. Malfunction or damage caused by repair or alteration of the other company.
3. Malfunction or damage caused by use instruments of other company at the same time.
4. Malfunction or damage caused by operating environment not corresponding to the specified operating environment (power conditions, installation environment, etc).
5. Malfunction or damage caused by natural disasters such as earthquakes and floods.
6. Malfunction or damage caused by the company unaware of the movement or transfer (transport) after installation.

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1. Application

PCR Cabinet is equipment that makes a partial clean air environment, its air current is vertical. It has applied to semiconductor industry, precision instrument, electronic component, optics apparatus, chemical industry, metallurgy and refining, magnetic material, micro-organism studies, medical science, research and some other departments. It is useful to increase the quality, precision, stability and reliability of products.

2. Features

- 1). Use of the technology of cold rolling steel electrostatic spraying to increase the intensity of frame; the amplitude will reduce while operating.
- 2). Overall exquisite appearance, anti-corrosion platform made of stainless steel.
- 3). Use of high efficient non-clapboard filter to keep high efficiency and low resistance.
- 4). Use of new type UV lamp without ozone, which has high intensity and long service life.
- 5). Use of the special air-blower, with low noise, low power, adjustable speed, and is easy to use.
- 6). The general design and reasonable construction distribution make the usage and maintenance more convenient.

3. Mail technique parameter

Overall Dimension:	1000×705×1770mm (L×W×H)
Working Zone Dimension:	900 ×595×560mm (L×W×H)
Dust (≥0.5um):	≤3.5 Granule/L
Clean Rate(for≥0.3um dust):	>99.99%
Air Velocity:	0.3-0.5m/s
Noise:	<65dB (A)
Vibration:	XYZ direct<5um
Light:	40W×1
UV Lamp:	20W×1
Power Source:	220V ± 10% 50/60Hz ; 110V ± 10% 60Hz
Consumption:	300W

4. Installation

- 1). Because the condition of installation directly influences usage result and life span, the device must be installed in the cleaning room or the cleanness room that has the plastics ground (or the water mill stone ground) and varnish wall.
- 2). The device should steady emplacement to reduce the vibration and the noise when it works.
- 3). Airflow affects greatly the clean result. So worker should take strict precautions against various outside high-speed current of air, such as door, window, fan, draught of sending air, compressed, etc., which would interfere with the operation area,
- 4). Power source has special switch. After power source carries on with requisition, please check the wind velocity of the operation experiments that should over 0.3 m/s. Otherwise check again.
- 5). After installation, please sweep the place and clean the platform.

5. Performance

- 1). Connect power source (220V \pm 10%, 50/60Hz; 110V \pm 10%, 60Hz)
- 2). Press **POWER**, the indicator is light, the keyboard unlocked and can be used; press **POWER** again, the indicator goes out, the keyboard locked and can't be used.
- 2). Press **LIGHT**, the indicator is light and lamp lights. Again press **LIGHT**, indicator and lamp put out.
- 3). Press **UV** when the glass door is closed, the indicator and UV lamp is light; press **UV** again, the indicator and UV lamp put out.
- 4). After the UV lamp lights up, the acquiescent time for disinfecting is 30 minute. Press \wedge once to add one minute; press \vee once to cut down one minute. Pressing \wedge for more than two seconds, the displayed number will continue increasing; press \vee for more than two seconds, the displayed number will continue decreasing. When stops pressing, the time displayed then is the disinfecting time set for the system. The set time should be 1~99 minutes.
- 5). Press **FAN**, the indicator is light and the breeze machine starts running. Press **FAN** again, indicator put out and the breeze machine stops running.

6. Equipment maintenance

1). Correct maintenance, management and use is the key link of keeping the cleanness of the operating zone.

Strict regulation must be built up, and the tool, material of the usage and visitors must be strictly controlled.

2). Keep all sections of the platform clean. Advance 10~20 minutes before using, and notice the following:

A. Worker must wear the clean smock, hat that is made of long fiber to wash easily.

B. Use the ball-point pen and tracing paper to write, which don't easily suction dust.

C. Forbid to do significant action that deliver dust, such as: scratch the head, take a step quickly etc.

D. Worker of microorganism and medicine industry must wear the mouth-muffle, forbidding to using the steam to disinfect.

E. Don't put thing on the platform. If the article should be placed to both ends as far as possible.

F. During operation head and hands should put in the produce leeway side. With the special demands worker should wear the rubber gloves or the nail sets.

G. Zero parts, materials, and tools (etc.) should be packed into the clean container.

3) . Deposit appropriately the product, tool, material (etc) after the work, and then stop the bench.

4) . Periodically carry on the function examination, such as the air velocity and cleanliness in operation area. If discover problem, please check immediately.

5) . If the filter isn't satisfied with the usage of request, please take out it, wash away dirt with detergent (soap or 10% lye), and pack into again the frame body usage after dried in the air. If it adheres to flush greasy dirt or damages, please replace.

6) . After flushing or replacing the filter, please consider replacing efficiently filter, if air flow doesn't increase.

7) . The replacement must be operated by professional personnel.

8). The intensity of UV lamp should be tested periodically according to the manufacturer's specification, testing quarterly as suggested. Please replace in time if it is not qualified.

7. Simple Malfunction

No.	Malfunction	Check part	Measure to carry out
1	Lightening doesn't work	Power source	Check whether power connection, fuse is in good condition
		Lamp corner	Compact it
		Light	Exchange
2	The light bicker or becomes red	Light	Exchange
3	Buttons doesn't work	Controlling	Check whether power connection, fuse is in good condition
			Check whether button is in good condition
			Check wire connection
4	Motor doesn't work	Power	Power disconnected, fuse damaged
		Motor	Something is wrong with motor, exchange it.

8. Regulation

- 1). When the equipments move, maintain, maintain, please cut off the power source.
- 2). Check whether the power source fits for the request or not.
- 3). The power source connects a ground of line, please connect a ground of line necessarily.

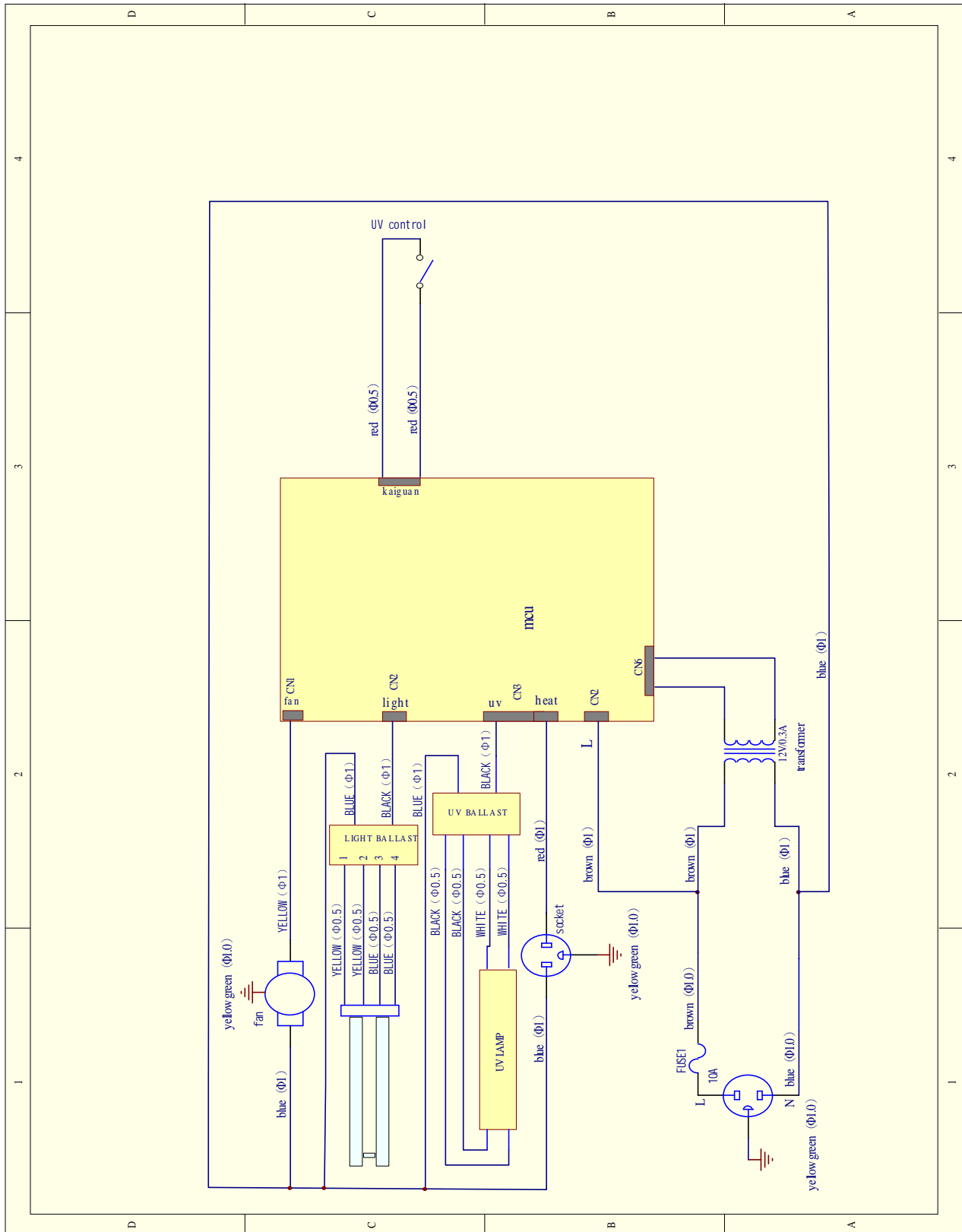
9. Storage and Conveyance

- 1). Clean work packed should store in the room which is opposite temperature under 80 degrees, no causticity air and good-ventilation.
- 2). Forbid inversion or put in a pile.
- 3). In transport process please put the equipment with care, forbid heavy pressure or rain pouring.

10. Packing

- 1). Over-wrap of the work set has marks as follow: Manufactory, Address, Model number, Name, Gross weight, Physical volume, Date of factory, Handle with care, Heading up etc.
- 2). Please pack with the plastics bag and put in the box with facilities of defending tide.

11. Circuit Chart



12. Guarantee

- Twelve months guarantee from the date of purchase (excluding light tube and fuse).
- Any damage of instruments and facilities caused by the incorrectly operation of user will not be maintained freely with in the guarantee validity.
- We take the responsibility to maintain the cabinets over the guarantee date with expense.
- Providing the drawings of facility and partly required technical data to the maintenance unit and personnel that trained and confirmed by Our Company.