

Kenton[®]

Clean Bench

JHP Series

Manufacturer: Kenton Apparatus Limited

Factory Add: No.2 Hualong Road, Renhe Town Alley Baiyun District Canton China

Ph: 0086-020-36246586 36247961

Fax: 0086-020-61152082

Website: www.kentonchina.com

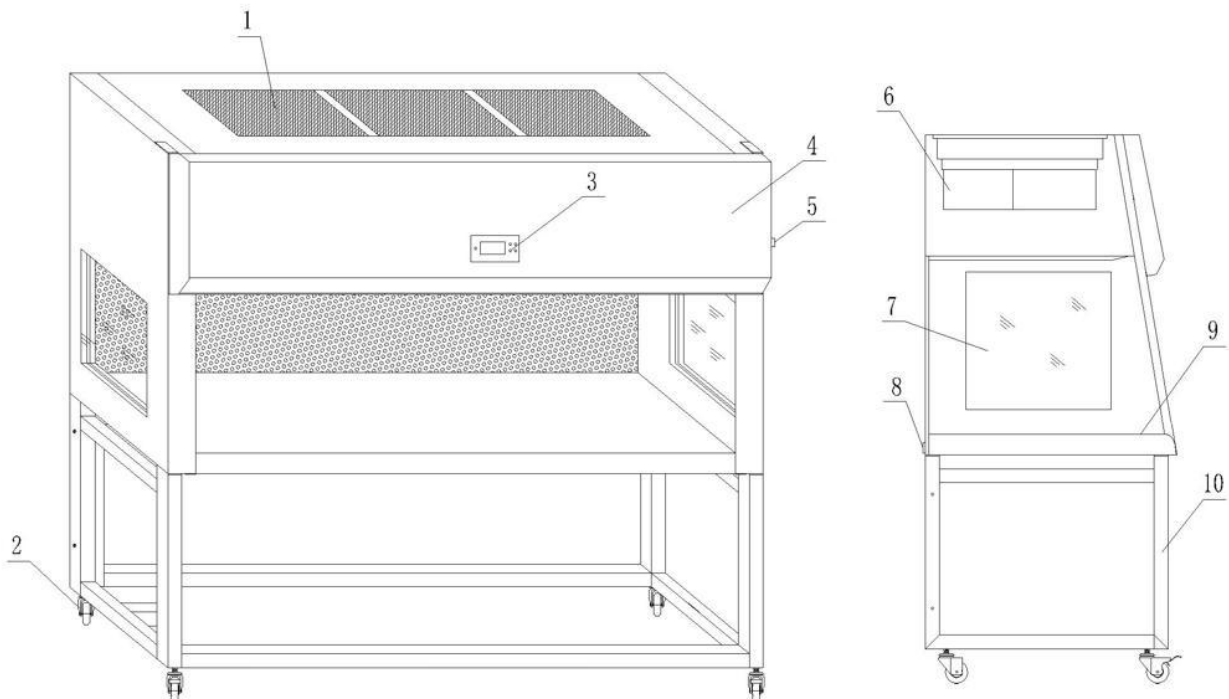
**Thanks for your purchasing. Please read this manual carefully before using it.
Make sure put this manual in convenient place for later use.**

version: 2012-03

Application

THE CLEAN BENCH use advanced purification technology. It is an important device for cleaning work environment. Widely used in precise electronic manufacturing, precise machinery industry, agriculture, forestry, medical health and other relative service institution

Structure



- | | | | | |
|------------------|---------------------|----------------|------------------|----------------|
| 1 primary filter | 2 wheel | 3 screen | 4 front covering | 5 power switch |
| 6 fan | 7 side glass window | 8 power supply | 9 work plate | 10 stand |

Advanced production technology, vertical and horizontal types, which meet the different needs.

JHP series horizontal clean bench is the new design product. has the following features:

- 1、 The bench is made of high quality cold-rolled sheet, the surface is powder-coat treatment , not easy to scratch, attractive appearance, Working area is made of stainless steel and easy to clean.
- 2、 Microcomputer control system, integrated instrument design, operate simply. Screen displays working conditions, easy to adjust and operate.
- 3、 install the primary filter and high efficient filter. Cleanliness is above 100 class.
- 4、 design of front 10 degree tilt to operate easily. Working room is open design, the purified airflow flows to operator to avoid outside air inflows into working area .
- 5 、 install lighting lamp and UV lamp inside of front covering to provide convenient during experiment.

Technical parameters

1. cleanliness: 100 class($>0.5\ \mu\text{m}$, $<3.5\text{p/L}$)
2. amplitude: $\leq 2\ \mu\text{m}$.
3. airflow velocity: working area 0.3~0.6m/s;
4. noise: normally, test noise is 65 decibels;
5. external dimension: JHP-1、(990*735*1585)、JHP-2、(1460*735*1585);
6. working area dimension: JHP-1、(830*550*515)、JHP-2、(1300*550*515);
7. filter dimension: JHP-1、(865*550*55)、JHP-2、(1335*550*55);
8. power(W): JHP-1、(439)、JHP-2、(866);
9. lighting lamp (W) ; JHP-1、(21)、 JHP-2、(30);
10. UV lamp (W); JHP-1、(18)、JHP-2、(30);
11. Power supply: 110V \pm 10% 60Hz \pm 1Hz;
12. Turn on UV lamp, after about 30 minutes, working area is bacteria-free
13. working ambient : temp. 10℃—30℃; relative humidity \leq 75%RH.
14. No obvious vibration and dust

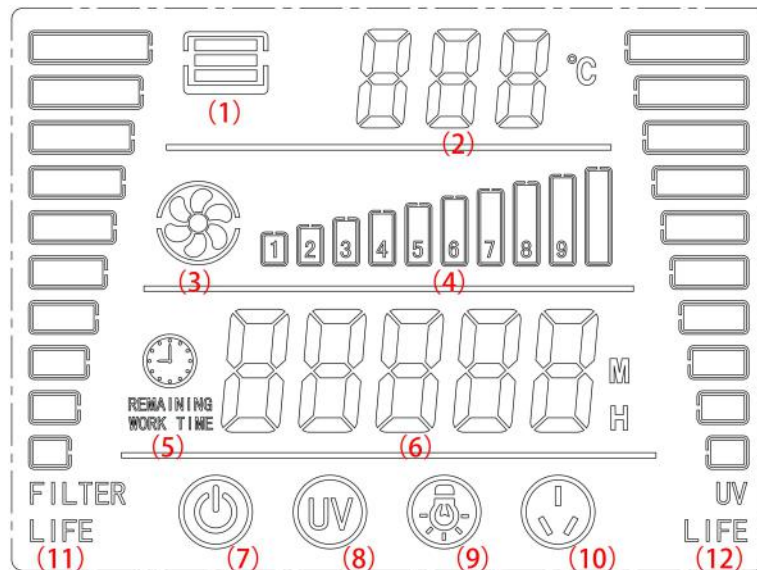
Installation & operation

Installation

- 1.the installation place of equipment affects use effect and use life. Should be installed in clean plant and provide a plastic floor or terrazzo floor in order to clean conveniently. And pay attention to door seal to prevent equipment from outside dust particles, in order to prolong the equipment service life.
- 2.uppack, check the parts whether is complete according to packing list. Then open the attachment packaging, take out the stand parts, install according to DRAWING. Fix the stand through eight M10 Allen screw. Then put the upper part onto the stand according to DRAWING, adjust the wheels and lock position nuts. When move the device, loose the front wheel brake.
- 3.the clean bench should be far away from the vibration place and big noise place. especially be far away from the vibration place.
4. in order to improve the device service life, the device should be installed in the GMP workshop or laboratory, which will reduce the filter replacement frequency. In ordinary lab should change filter one time every two years. Prohibit to install in high speed dust particle working area.
5. ensure the airflow of purification area to flow normally, prohibit installation in the place easy to influence
6. leakage test if there is a test instrument. Move the meter probe along output airflow section , observe the pointer, when the pointer deflect once, there is a leak. So repeat examination and locate the leak position, then correct it. edge seal cushion isn't sealed or the cushion is damaged or the high efficient filter is leak , which could cause be leak. Test by heat ball anemometer. Start the fan, put the anemometer in 200mm above the working plate, move the probe, observe the pointer.

Operation

Panel indication



Icon meaning

No. numb	content	Description
1	[Door status]	When the door opening function is on, the three bars in the middle of the icon is off and all on when the door status is closed.
2	Ring temperature measurement value	PA for the corresponding parameter in the parameter setting; when the ring temperature function is displayed, the current ring temperature measurement is turned on.
3	[Fan]	When the fan is on, the fan icon is rotated at the corresponding gear.
4	[Fan] gear	The gear position set by the fan
5	[Time Left]	This icon lights up when the parameter is not set state
6	Run time	In the sterilization state, the countdown of sterilization timing is displayed; the input password is displayed; the input parameters when the parameter is set; "End" when the sterilization timing is completed; the cumulative operating hours of the fan is displayed.
7	[Power]	When the power is off, this icon lights up and all other icons are off; when the power is on, this icon is off and the other corresponding icons are on.
8	[sterilization]	The icon flashes when the system is sterilized
9	[Lighting]	The icon lights when lighting is on
10	[Socket]	The icon is turned on when the socket is turned on
11	[Filter lifespan]	When the filter set life time is not 0, the icon lights up and shows the remaining life of the filter.
12	[sterilization lamp lifespan]	When the set life time of the sterilization lamp is not 0, the icon is illuminated and shows that the remaining life span of the sterilization lamp is very proportional.



1. [Power] Key: Power ON/OFF,, click to turn the power on or off.
2. [Lighting] Key: Lighting ON/OFF,
3. [Socket] Key: Socket ON/OFF,
4. [Sterilization] key: the key of sterilization light on (press for a long time can be set in parameter 2, click when it is off).
5. [Fan] key: ON/OFF, when the fan is off, all gear bar out, the outer frame is also out, the fan icon is out, the fan has no output, display the current gear, other gear, the fan has output, the fan icon turns at different speeds according to the gear size.
6. [▲] (increase), [▼] (decrease) keys:
 When not in the parameter setting and transmission password state:
 When the fan is turned off, click this key to enter the gear setting state. The current gear bar flashes. Click the button is released to increase or reduce the gear position. If this key is not pressed within 3 seconds, return to the normal state and save the file automatically.
 When the fan is on, click this button to directly increase or reduce the gear position and save it automatically.
Description: In this state, long pressing this key has no continuous increase or decrease function.
 When in the parameter setting or transmission password state: click this key to increase or reduce the parameter value or password value.
Description: In this state, a long key has continuous increase or decrease functionality.
7. [Settings] Key: Click [Settings] Key to enter the transmission password interface, modify the input password by [Increase] and [Decrease] Key, and then click [set] Key to determine whether the password is correct, enter the corresponding internal parameter interface; adjust the parameter size by [Increase] and [Decrease] Key, press [set] Key for 3 seconds and take effect.
8. Key interlock instructions
 Parameter 3 central gating function (NF): when gating function is available, open the fan in open state and sterilization in closed state; if there is no restriction, no gating function.
 Interlock function (LF) in Parameter 3:
 0: There is no interlocking limit for sterilization, lighting, socket and fan;
 1: Sterilization and lighting interlock;
 2: Sterilization and lighting, socket and fan interlocking.

Parameter 1 (Password 1)

Indicator	Parameter name	Parameter declaration	Factory value(Range) (range)
PA	password	View and parameter values can be modified when PA=1	0
UT	The sterilization setting time	Set time for sterilization on	30 (0~999 points)

Parameter 2 (Password 3)

Indicator	Parameter name	Parameter declaration	Factory value(Range) (range)
PA	password	View and parameter values can be modified when PA=3	0
Hb	Ring temperature deviation correction	Deviation correction of the ambient temperature	0(-10 ~ 10℃)
HF	Environmental temperature function	Whether the ambient temperature function is turned on 0: Close, 1: On	1(0 ~ 1)
UPT	The sterilization is long by time	It takes a long press to turn on the sterilization Note: At 0, click to start sterilization	3 (0~10 seconds)
UET	Sterilization ends with the buzzer duration	Time of buzzer sound after the sterilization timing Note: buzzer does not sound at 0; buzzer rings at 999 requiring manual noise	60 (0~999 seconds)
UC	Clear the UV lamp	0: Cancel, 1: OK	0(0 ~ 1)
FC	Clear the filter usage time	0: Cancel, 1: OK	0(0 ~ 1)

Parameter 3 (Password 27)

Indicator	Parameter name	Parameter declaration	Factory value (range)
PA	password	The parameter values can be viewed and modified when PA=15	0
UST	UV lamp set life	Set life time for the UV lamp Note: This function is not valid for 0	100 (0~300 One hundred hours)
FST	Filter-set-life	Set life time of the filter Note: This function is not valid for 0	100 (0~300 One hundred hours)
OUT	Output mode of fan	0: Relay output, 1: Silo-controllable output	0(0 ~ 1)
Pn	Minimum output percentage of the fan	Minimum output percentage of the fan	50(30 ~ 90%)
FAN	Fan gear	The fan output has several gears	3(3 ~ 10)
H	supply frequency	0: 50Hz, 1: 60Hz	0(0 ~ 1)
NF	Door control function	0: No gating function, 1: with gating function	0(0 ~ 1)
LF	Interlock function	See five.Description of the key interlock for the 8	1(0 ~ 2)

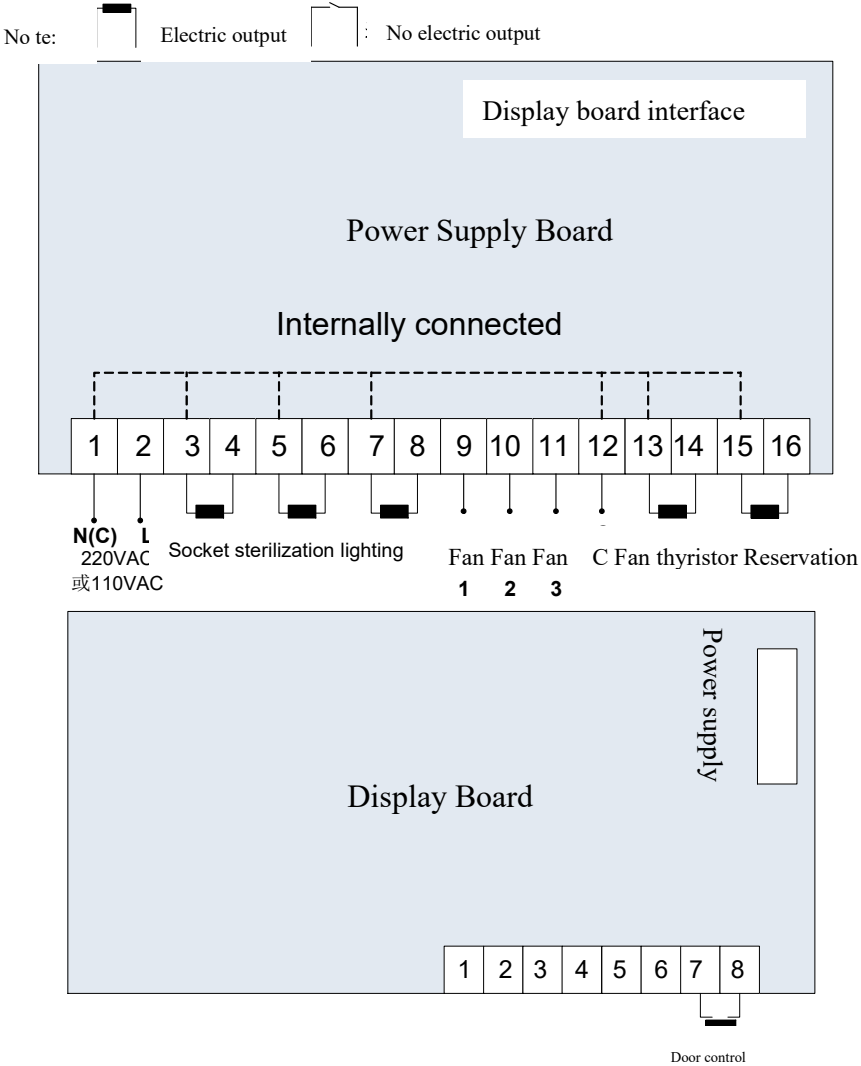
Parameter 1 (Password 67)

designator	Parameter name	parameter declaration	Factory value (range)
PA	password	The parameter values can be viewed and modified when PA=67	0
rST	Initialize the parameter	Initialize all of the parameters	0(0 ~ 1)

Maintenance

1. to ensure the equipment can be used normally , please dismantle primary filter according to DRAWING and clean. should dismount the primary filter according to the DRAWING about 4-6 months.
2. if airflow velocity of working area is less than 0.08m/s, please replace the high efficient filter. You can purchase filter from our company. Pay attention to the arrow signal when replace the filter. Arrow direction is laminar airflow direction.
3. primary filter is made of 5-8mm non-woven fabrics, fixed with metal net, Installed in the air inlet which is on the top of clean bench.
4. after replacement, clean then turn on the fan to check filter whether is leakage and check airflow
5. prohibit changing the inside structure of clean bench . If there is any quality problem, contact us.
6. move the equipment carefully, avoid damaging.
7. If set this equipment aside, disconnect the power please

hookup



Packing list

NO.	name	quantity	note
1	finish product	1	
2	stand	1	4 parts installed
3	M8 Allen wrench	1	with M8 hexagon screw
4	17-19 open end wrench	1	with wheel
5	instruction manual	1	