



Clean Bench

Model YR05268

## Instruction Manual

Thank you very much for purchasing our Kalstein's Clean Bench Model YR05268

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" at a hand place for future reference.



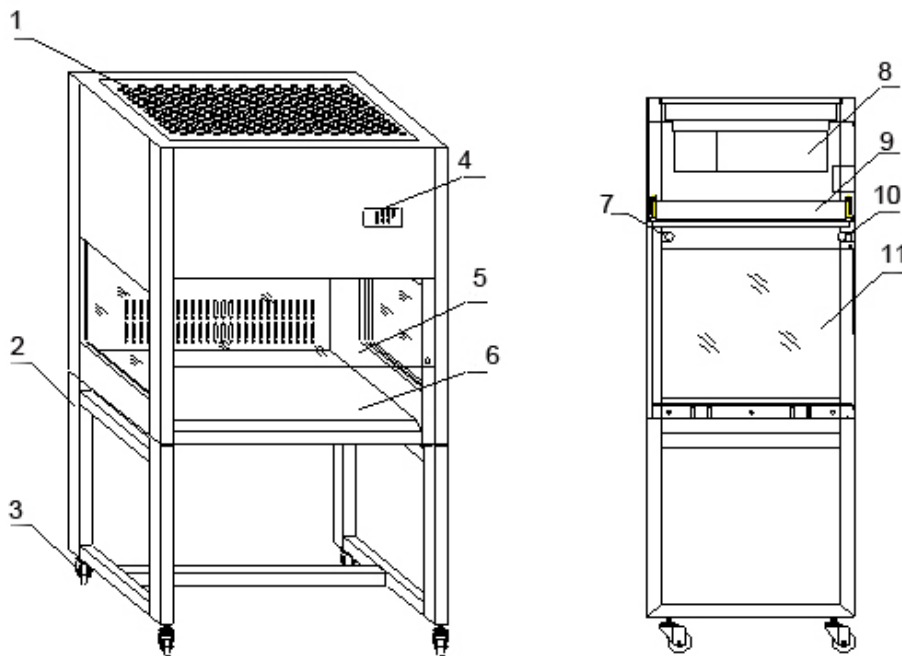
Warning: Before operating the unit, be sure to read carefully and fully understand important warnings in the operating instructions.



## 1、 Application Scope

Purification equipment is to purify air. Clean bench is an essential equipment for purification of partial working environment. As the development of science and technology, nowadays it is applied to electronic industry and precise machinery industry for dust control; also to agriculture industry, forestry, colleges and medical care for control of dust, bacteria and virus.

## 2、 Structure and Feature



- |   |                        |   |                   |    |                       |
|---|------------------------|---|-------------------|----|-----------------------|
| 1 | Filter Net             | 5 | Front Glass       | 9  | High-efficient Filter |
| 2 | Supporting Leg         | 6 | Operation Desktop | 10 | Lighting              |
| 3 | Wheel                  | 7 | UV Light          | 11 | Glass windows         |
| 4 | Intelligent Controller | 8 | Fan               |    |                       |

YR clean bench proceeds dual filtration to the air which goes into the working space with pre-filter and high-efficient filter, which makes the cleanliness of the working space meet user's requirement.

Product is with a fine structure. It is made of cold-rolled steel plate and special-shaped tubes, with spray-coated surface. Nice design. Operation desktop is made of stainless steel, which is durable and easy to



clean.

With divided-body design. Vertical airflow. Easy to operate and clean. Equipped with pre-filter and high-efficient filter. Pre-filter is for regular dust and high-efficient filter is for dust  $\geq 0.5\mu\text{m}$ , which makes the working space reach cleanliness of Class100 and efficiency of 99.99%. Adjustable airflow and less noise.

### 3、 Technical Specification

Cleanliness: Class100 ( In a container of 1Liter, the number of dust sized more than 0.5micron is equal or less to 3.5)

Noise:  $\leq 62\text{dB}$

Vibration:  $\leq 2\mu\text{m}$

Overall Dimension: YR05268、(H1565 \*W800\*S580)、 YR0-2-2、(H1565\*W1330\*D580);

Dimension of Working Space: YR05268、(H500\*W720\*D550)、 YR0-2-2、(H500\*W1250\*D550);

Average Airflow Speed: 0.25-0.45M/S

Lighting(W): YR05268、(21)、 YR0-2-2、(30);

UV light (W): YR05268、(18)、 YR0-2-2、(30)

Power(W): YR05268、(445)、 YR0-2-2、(866);

Power Source: 110V/60HZ

### 4、 Installation and Operation

#### (A) Installation

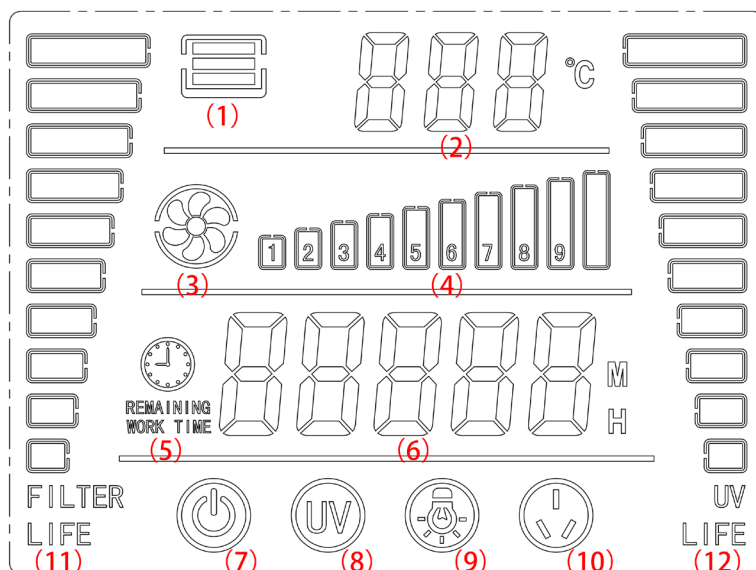
1. Assemble the supporting frame and finish installation, later check if it is fixed. Put the working desktop onto the frame and adjust it well. Brake the 2 front wheels. Fold the front glass upward and clean the operation desktop.

2. Put the front glass downward. Get the equipment through electricity and turn on the switch. Press "Increase" on the controller to maximize the airflow. Later turn on UV light, after 20-30 minutes when the sterilization and purification become satisfactory, user can turn on lighting and operation the equipment regularly.

3. Turn off all switches when finish using and clean the operation desktop for future use.

#### (B) Instruction of Controller Keys

## Panel indication



## Icon meaning

No. number	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°C)
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 usage	0: Cancel, 1: OK	0(0~ 1)
FC	Clear the filter usage	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)



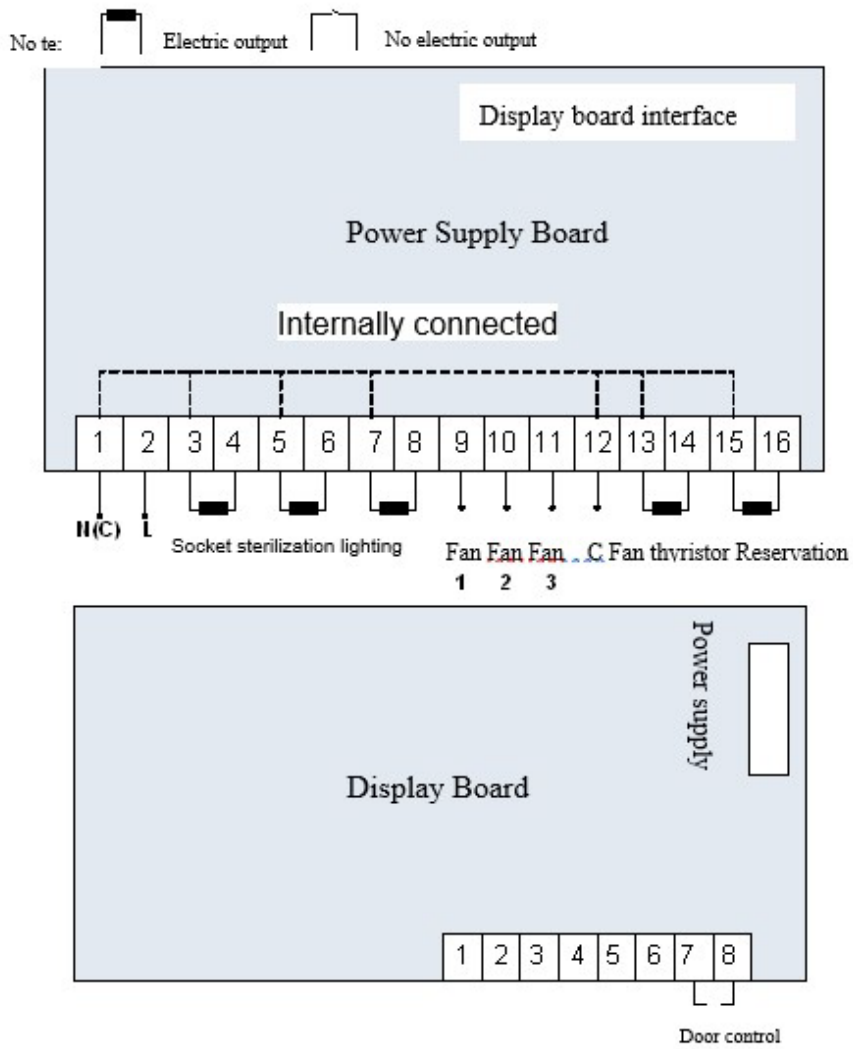
## 5、 Repair and Maintenance

1. To ensure the equipment can work properly for a long time, it is necessary to take off the pre-filter and clean it regularly according to the ambient cleanliness (usually every 4-6 months)
2. If the airflow speed in the working space is less than 0.08M/S then it is necessary to replace the high-efficient filter. For a new high-efficient filter, user can buy from our company. When replacing it, please pay attention to the arrow mark on the filter. Arrow points to the airflow's direction.
3. Pre-filter is made with treated non-woven fabric of 5-8mm, fixed by a metal net and installed on top of the airflow entrance.
4. After cleaning, please clear the dirt and dust. Run the fan to check if the airflow goes properly and check if there is leakage. Operate after confirming there is no failure.
5. It is forbidden to refit interior structure. Please contact our after-sale department for the problems regarding quality.
6. Carefully carry and move the equipment to avoid damage.
7. If not use the equipment for a long time, it is suggested to take off the plug and turn off the main power switch.





## 6、 hookup







## Packing List

	Item	Quantity	Remark
1	Main Body	1	
2	Supporting Frame	1	
4	Manual	1	
5	6mm Allen Wrench	1	For M8 inner hexagon screw
6	17-19Open Spanner	1	
7	Warranty Certificate	1	
8	Quality Certificate	1	

