



TOOLOTS SWP Series Single Clean Bench User Manual

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CLEAN BENCH

SWP series Manual

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1. Application

THE CLEAN BENCH adopts advanced purification technology. It is an important equipment for cleaning the work environment. Widely used in precise electronic manufacturing, precise machine1y industry, agriculture, forestry, medical health and other relative service institutions.

2. features

The clean bench adopted advanced technology, we produce horizontal and vertical types with different sizes. It can meet different customer's requirements.

1. The housing is made of high quality cold rolled steel, spray-paint on the face, the chamber is made of S.S, easy to clean and maintenance.
2. Microcomputer control panel and integration meter, the screen can display the working status.
3. Adopting primacy filter mesh and high efficient filter(class II filtering),the cleanliness can reach over class 10,000.
4. The work aide use open structure, the purified air will flow to operator, thus other gas won't flow to workshop.
5. Equipped with lamp and UV light at front cover.

3. Technical parameters

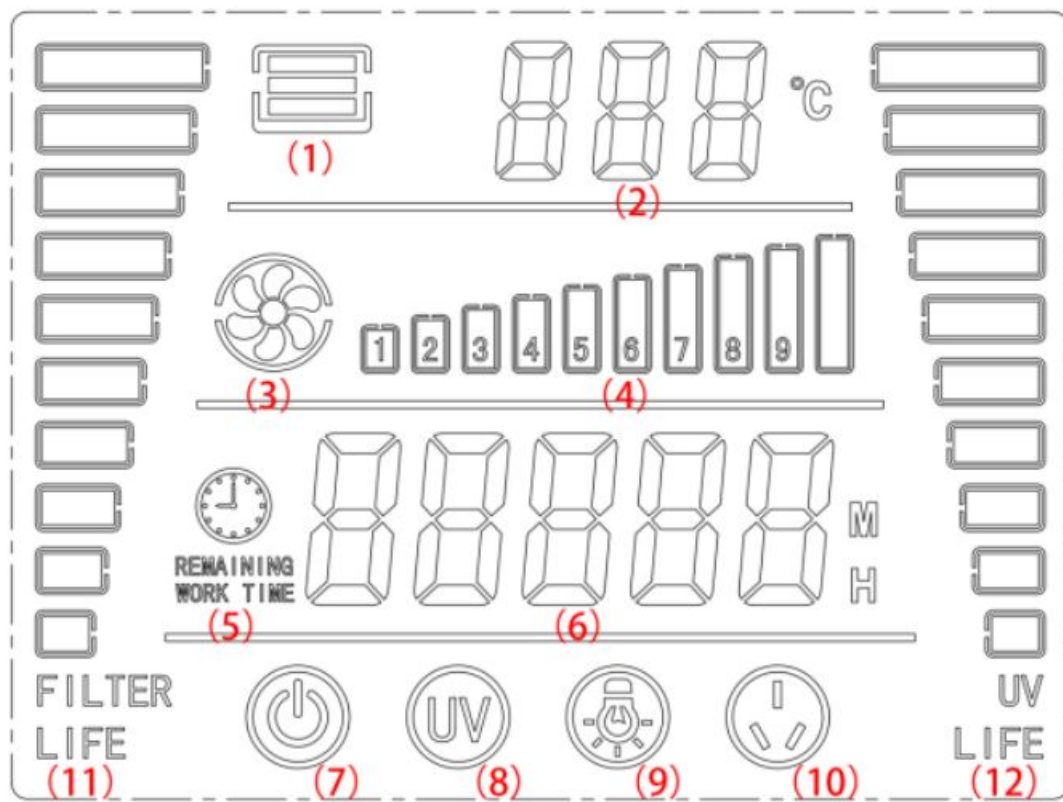
1. cleanliness: class 100
2. stroke: $\sim \mu m$
3. wind speed: 0.3-0.6m/s
4. Noise: $\sim 65dB$
5. External size(H*W*D): SWP-1(1600*860*580mm)
6. Chamber size: SWP-1(500*700*430mm)
7. Filter size: SWP-1(715*530*55),
8. Output power(W): SWP-1 (440)
9. Illustration(W): SWP-1 (18)
10. UV light(W); SWP-1 (20)
11. Voltage: AC110V + 10% 50Hz+ 1Hz;
12. After 30minutes the UV light started, the chamber can be in aseptic condition.
13. Working environment: temperature:10°C-30°C,relative humidity $\sim 75\%RH$;
14. No obvious vibration and dust.

4. Installation

1. The installation place of equipment affects using effect and using life. Should be installed in a clean plant and pay attention to door seal to prevent outside from dust particles, in order to prolong the service life of equipment
2. After opening the package, please check the products with the packing list to avoid the missing, then unpack the accessories pack, take out side frames and back frames, fix up them with hex screws, following the manual. ensure the instalment is stable and tight. Then fix the chamber to the top of supports. the last step, to adjust the level of the casters, and lock the nuts.
3. The clean bench should be put away from the place with shaking and noise.
4. In order to increase the using period of filter, it is better to put the clean benching GMP working room or laboratory. If for common laboratory, the filter should be replaced every 2 years.
5. The airflow in chamber should be in nonanal condition, in order to ensure the high efficiency. Prohibit to install it at those places which easily influenced by external airflow.

5. How to operate

Panel indication



Icon meaning

No.	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 tum 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 paran1eter 2, click when it is off).

5. [Fan] key: ON/OFF, when the fan is off, all gear bar out, the outer fan is also out, the fan icon is out, the fan has no output, display the cement gear, other gear, the fan has output, the fan icon turns at different speeds according to the gear size.
6. [_.] (increase), [T] (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)
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)

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)

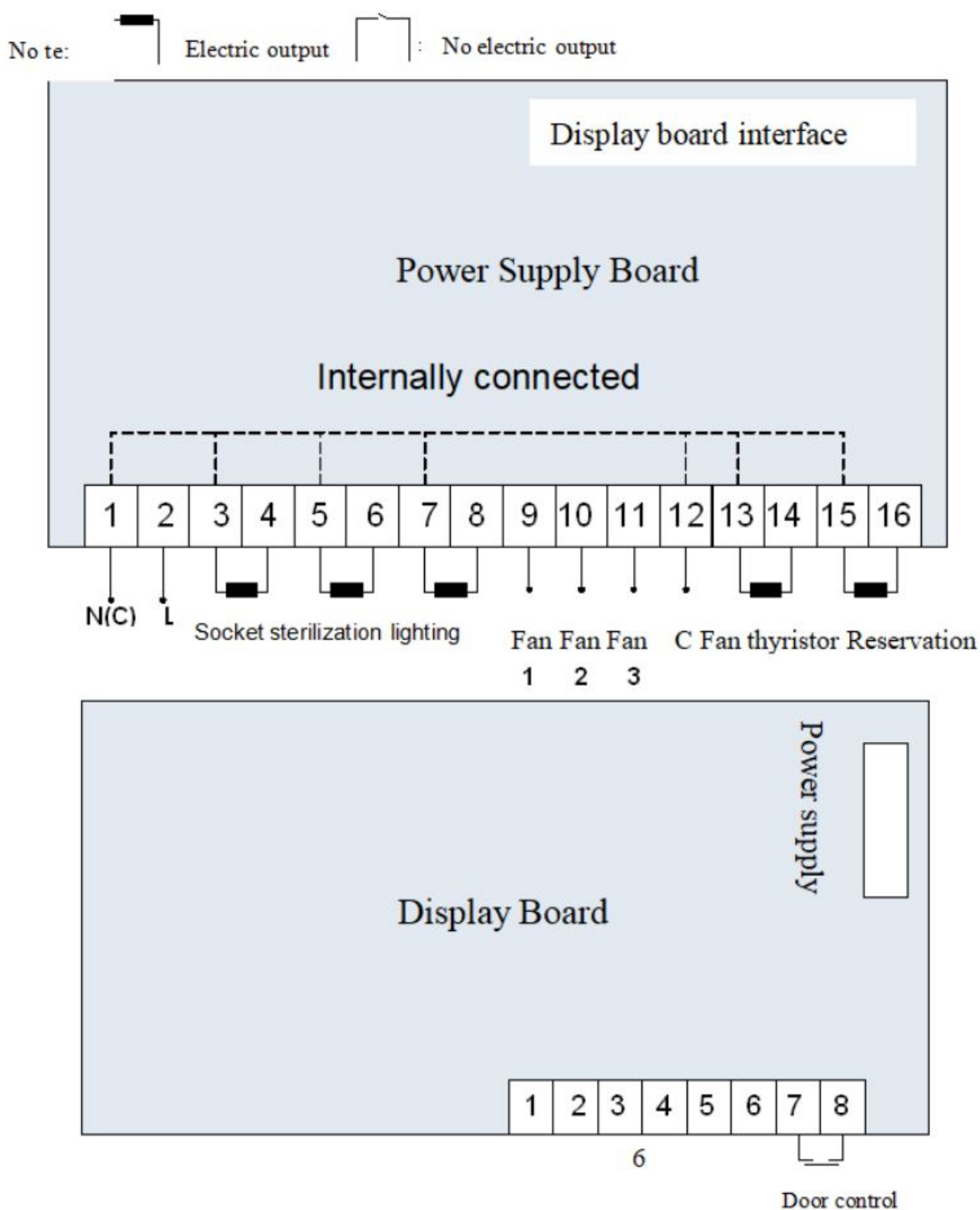
designato	Parameter name	parameter declaration	Factory value (range)
PA	password	The parameter values can be viewed and modified when PA=67	0
rST	Initialize the parameter	Initialize all of the parameters	0(0 ~ 1)

6. Maintenance

1. To ensure the long-tenn use of equipment, should dismantle the primaiy filter according to the DRAWING about 4-6 months.

2. If airflow velocity of working area can't reach to 0.08m/s, must replace the high efficient filter. Purchase filter by our company. Pay attention to the a1Tow signal when replace the filter. Anow direction is laminar airflow direction.
3. Prin1a1y filter is made of 5-8mm non-woven fab1i cs, fixed with metal net. installed in inlet.
4. After replacement, clean the pollution materials, then start the fan to check filter and check airflow patte1n.
5. Prohibit changing the inside structure. if it has any quality problem, contact us.
6. Move the equipment carefully, avoid damaging.
7. Before setting this equipment aside, please unplug the power plug.


7.hookup



Packing list

Serial	Name	Quantity	Remarks
1	Clean bench	1	
2	supporting	1	
3	Hex wrench	1	For M8 hex screws
4	manual	1	
5	17-19 open spanner	1	For carster adjustment
6	Warranty card	1	
7	Certificate of compliance	1	

Documents / Resources

	<p>TOOLOTS SWP Series Single Clean Bench [pdf] User Manual SWP Series Single Clean Bench, SWP Series, SWP Series Clean Bench, Single Clean Bench, Clean Bench, Single Bench, Bench</p>
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