

AIRTECH

HAND DRYER WASHER

Equipment installation manual



The content of this manual is written for standard equipment, but it is also applicable to related equipment.

Table of Contents

1.	Preface	1
2.	Receiving notice	1
3.	Safety instructions	1
3-1	Marking description	1
3-2	Precautions during installation	2
3-3	Precautions when using	3
3-4	Precautions when abnormal	4
4.	Functions and specifications	5
4-1	Function	5
4-2	Specialty	5
4-3	Specification	6
5.	Installation method	8
5-1	Device installation	8
5-2	Power supply	8
5-3	Pipeline connection	9
6.	Operation method	10
6-1	Button description	10
6-2	Parameter setting	11
6-3	Time parameter setting	12
7.	Simple troubleshooting	13
8.	Maintenance	14
9.	Contact information	15

1. Preface

Thank you for purchasing our company's HAND DRYER W/WASHER.

- Please read the manual carefully and use the product correctly. Improper operation will cause serious accidents.
- Please make sure to appoint the operation and management personnel of this equipment. If any abnormal accident occurs, please report to the manager immediately.
- Do not tear off the specification label on the device.
- This manual is written for standard equipment, but for special specifications, it can also be used as a reference.





2. Receiving notice

- Please check carefully and confirm whether the product is damaged due to the shipping process.
- Please confirm whether the product is consistent with the content of the order.
- Our company's products are strictly controlled from production, inspection, packaging to shipment. If there is any problem with this product, please contact us within 3 days of arrival. If the product is improperly used or modified, it won't be covered by our warranty.

3. Safety instructions





| 3-1 Marking description

- Please read the "safety instructions" carefully before using the product, and use the product correctly.
- Be sure to follow the precautions described here.
- The markings and descriptions are shown in the figure below.


Marking	Description
 Danger	If you do not comply, there is a high possibility of serious harm to life or body and mind.
 Cautions	If you do not comply, it may cause minor injuries or malfunction of the machine.
 Forbidden	Prohibited matters
 Follow	Indicates to matters that need to be enforced.

3-2 Precautions during installation

Danger

-  It is forbidden to install in an environment prone to fire or explosion.
 - This equipment is not explosion-proof.
 - It is forbidden to install in an environment prone to fire and full of explosive gas.
-  Wiring work should be performed by professionals.
 - There may be a risk of electric shock.
-  Install at a place where the base plate has sufficient strength.
 - Please install at a place that can bear the weight of the equipment.
-  Install the equipment before connecting the power line.
 - Avoid electric shock.
 - Be sure to ground it.

Cautions

-  Please do not use it in the following places to avoid malfunction of the machine.
 - Places with low or high temperatures.
 - Places with heavy moisture or moisture is prone to occur.
 - Places that are likely to cause dust accumulation.
 - An outdoor space that is exposed to wind and rain.
 - If you want to install in a special environment, please contact our company to discuss opinions.

- ❗ Install the device in a stable position.
 - If the device is installed in an unstable position and tilted, it may cause problems with the operation of the fan.
- ❗ Do not block the return air vent.
 - Blocking will reduce the return air volume, and thus reduce the performance of the equipment.
- ❗ Plan maintenance work area.
 - The filter must be replaced regularly, and maintenance work such as the fan and electrical wiring must be maintained.
- ❗ Confirm the voltage specification.
 - Please confirm whether the input power is the same as the equipment specifications to avoid the risk of fire and combustion of parts.

| 3-3 Precautions when using

⚠ Danger

- ❗ Please cut off the power supply before checking.
 - Sudden operation of the equipment may cause electric shock.
- ❗ When replacing the pre-filter, please stop the fan first.
 - To prevent the fan from inhaling objects or causing personal injury.

⚠ Cautions

- ⊘ Be careful of electric shock.
 - Do not operate the device with wet hands, as this may cause electric shock.
- ⊘ Do not switch the power switch multiple times within one minute.
 - Switching the power repeatedly in short period of time may cause the fan or electric control parts to burn out.
- ⊘ Do not touch the electronic control parts.
 - Do not touch the electronic control parts inside the device. If you have to, please cut off the power first.

- ⊘ Do not damage the power cord.
 - Do not place heavy objects on the power cord or arbitrarily place it.
 - Damage to the power cord may cause accidents such as fire or electric shock.
- ⊘ Do not modify the equipment.
 - It may cause electric shock, fire, and equipment performance degradation.
- ⊘ It is forbidden to use volatile oil or thinner to clean the equipment.
 - Do not use volatile oil or thinner to clean the equipment to avoid the fading and peeling of the coating.
- ❗ Please clean and replace the filter of this equipment regularly.
 - Please clean and replace the filter according to the operation method described later.

| 3-4 Precautions when abnormal

⚠ Danger

- ⊘ It is forbidden to disassemble and repair by yourself.
 - Improper handling may cause accidents such as electric shock and fire. Please hand over to our company for disassembly and repair.

⚠ Cautions

- ⊘ Do not use when abnormal.
 - Operating under abnormal conditions may cause accidents such as electric shock or fire.
 - In the event of an abnormality, please stop the operation immediately. Cut off the main power supply and contact our customer service staff.

4-1 Functions

Make sure to read the details provided in this manual very carefully to ensure good utilization of this product. If some of the instructions are unclear, please feel free to contact our customer service department.

This Hand dryer-washer combo is dotted with a water valve for the washing process and a high-speed blower that sends out dust-free air through nozzles to facilitate the rapid drying process using HEPA filters.

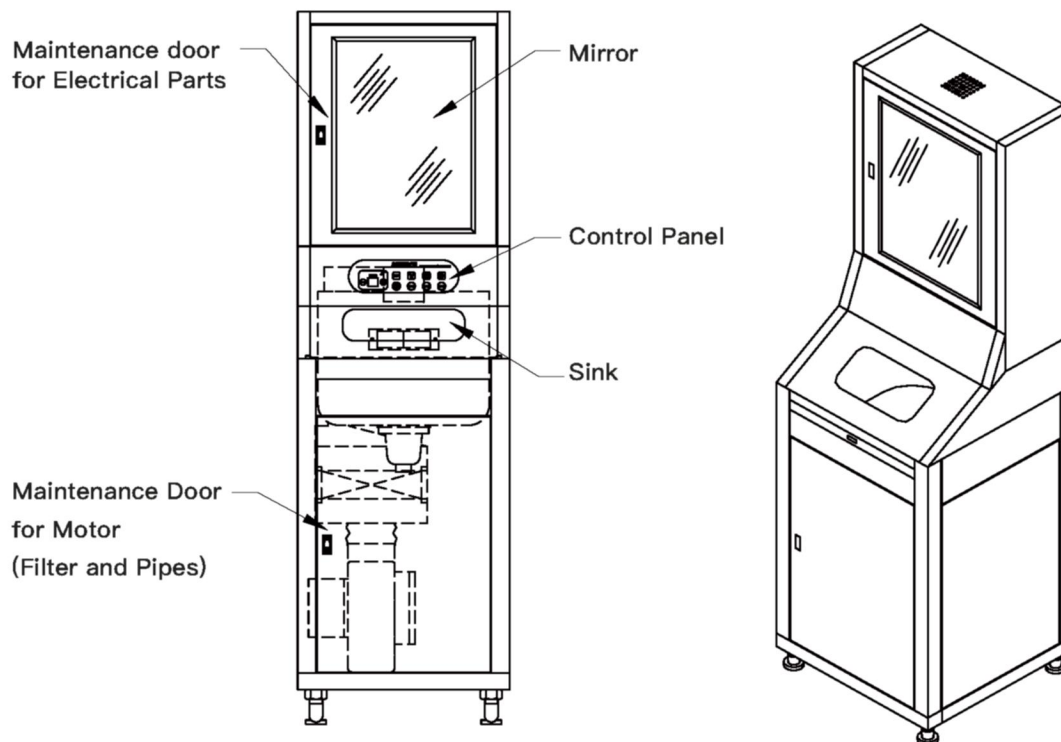
4-2 Specialty

- The blown air is a dust-free air filtered by HEPA filter.
- With a fully automatic design, you can wash and dry your hands without touching any parts of the equipment.
- It's small and does not take up space.
- Equipped with Microcontroller Unit (MCU), the program can be modified to meet various customer needs.

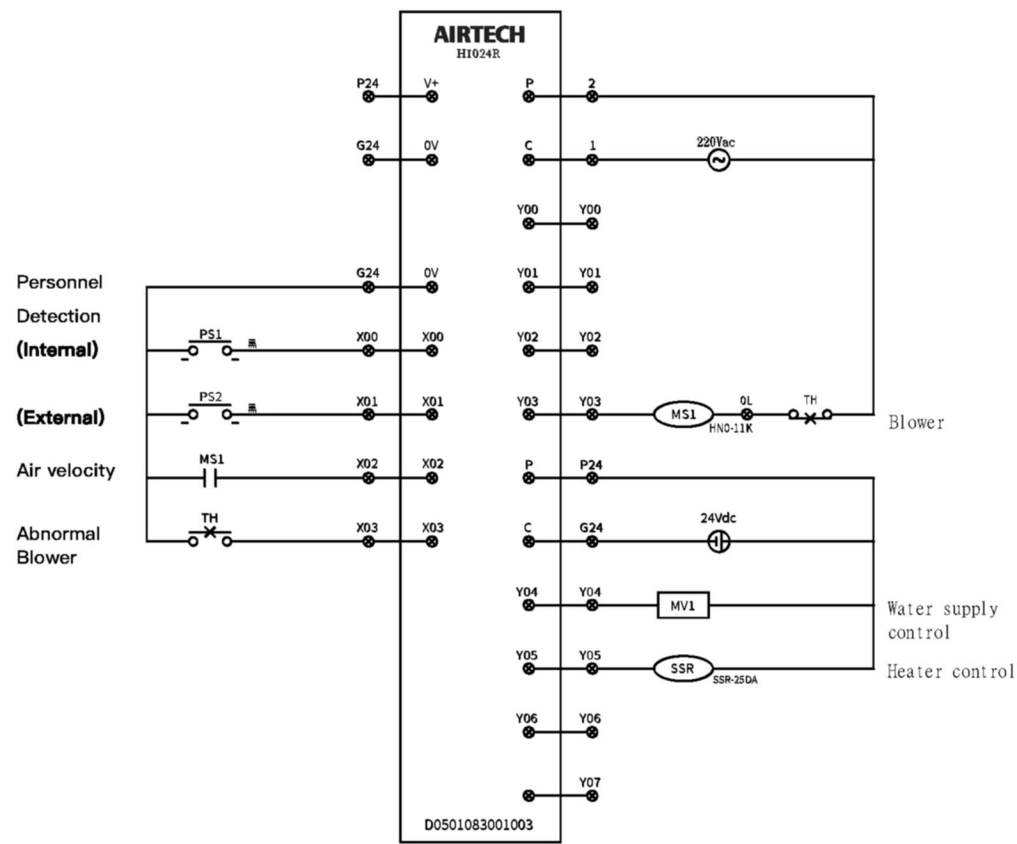
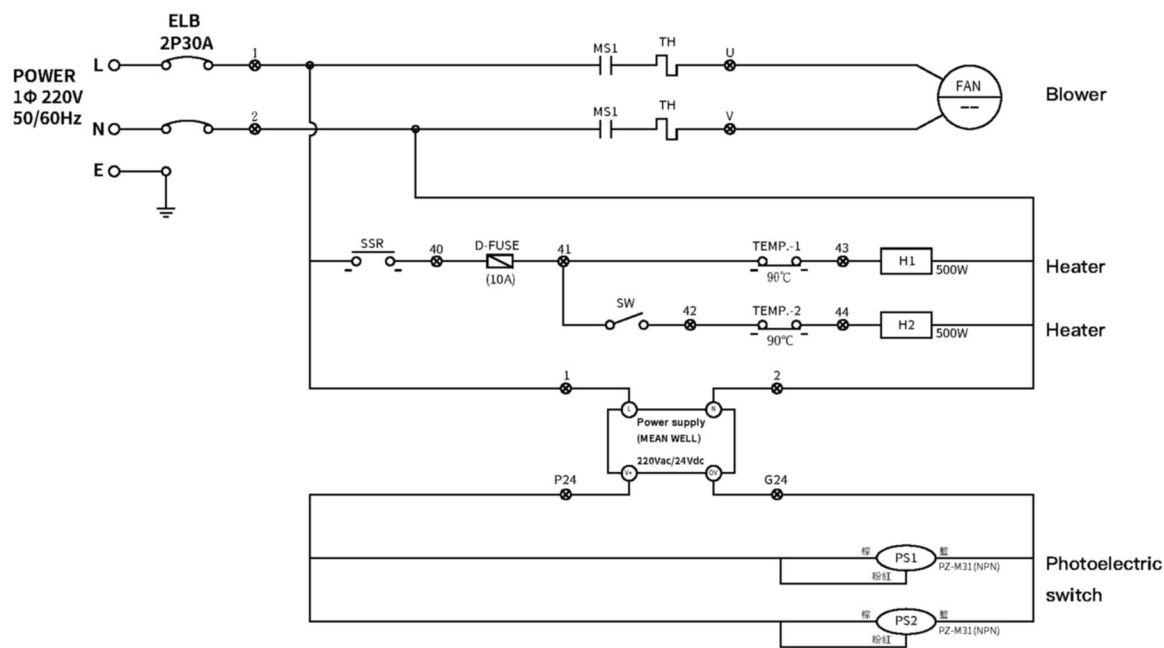
4-3 Specification

Specification			
Model		AHD-30DW	AHD-27DW
Construction	Main	Coldrolled Steel with Baked Painting (SECC) or Stainless (SUS 304)	
	Internal	Stainless (SUS 304)	
Electrical		AC 110V / 220V	
Frequency		60 Hz	50 Hz
Cleanliness		CLASS 100 (ISO CLASS 5)	
Dust Collection Elements		Main filter : HEPA FILTER	
		Pre-filter : Non-woven filter	
Operation Switch		Microcontroller Unit (MCU)	
Air Velocity		30 m/s	27 m/s
Water Supply		Automatic Water Supply Faucet	
Connecting Pipeline		Water pipe : 1/2”PT	
		Drain pipe : 1”PT	
Dimension(WxDxH)(mm)		520x500x1700	
Power Consumption(VA)		2000VA	
Noise(dBA)		75	

Drawing



Circuit diagram



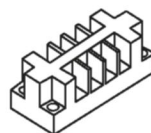
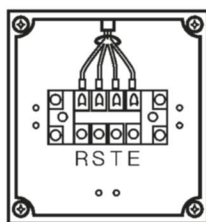
5. *Installation method*

5-1 Device installation

- After the installation position is determined, adjust the level with the adjuster (ADJUSTER) and fix it. If the floor is covered with soft carpet (such as PVC), please put the adjuster (ADJUSTER) seat on top of it.

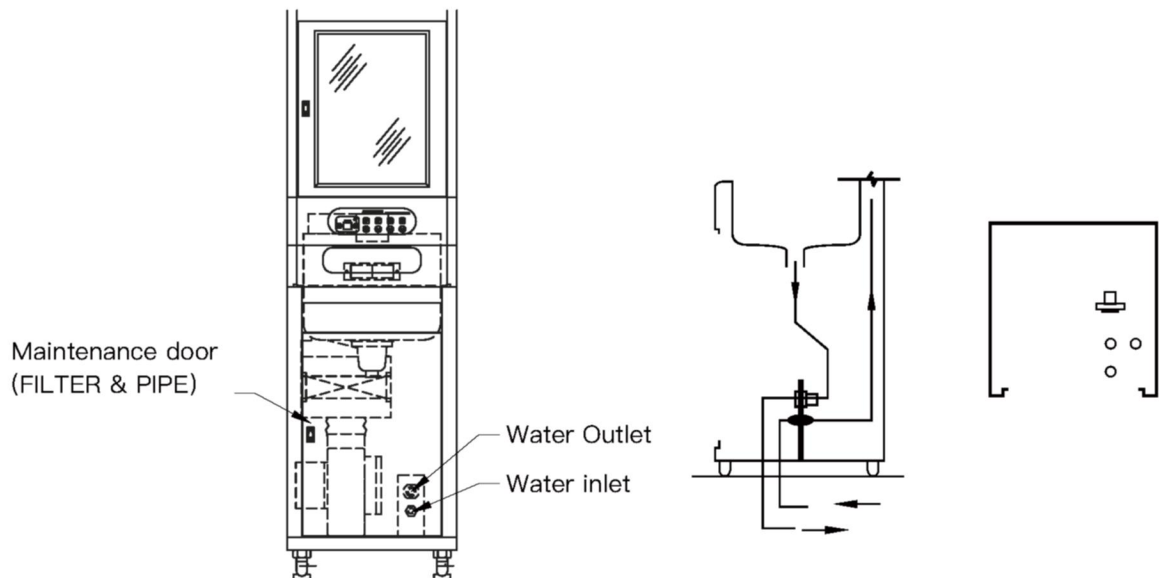
5-2 Power supply

- For the connection of the power supply, please open the motor maintenance door at the bottom and use the power junction box to connect the power supply after confirming the correct power supply.

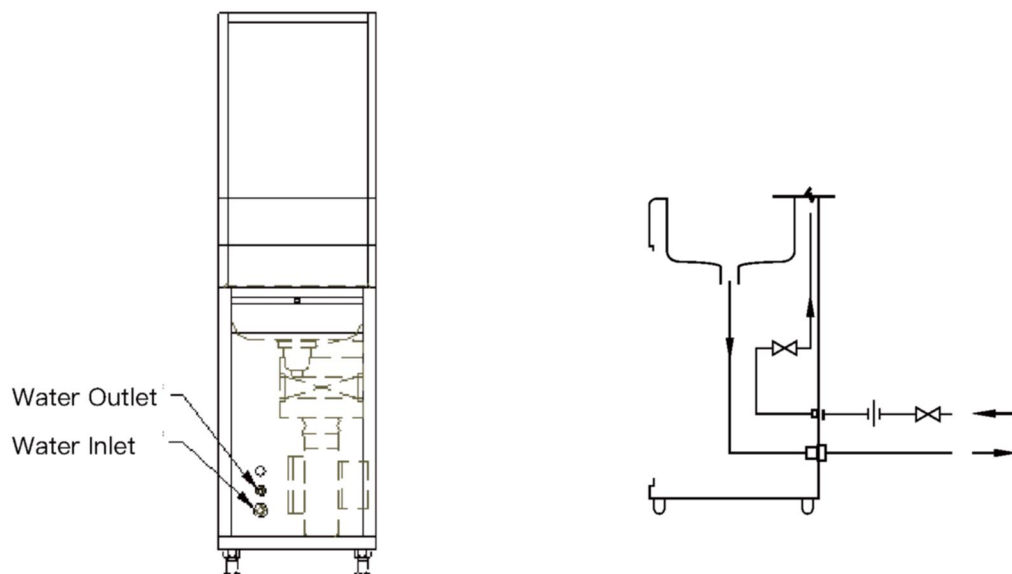


5-3 Pipeline connections

Please select the appropriate diameter for piping according to the specifications.
Ordered and perform a leak test after connecting the water supply pipe.



Water In/Outlet from Bottom



Water In/Outlet from Back

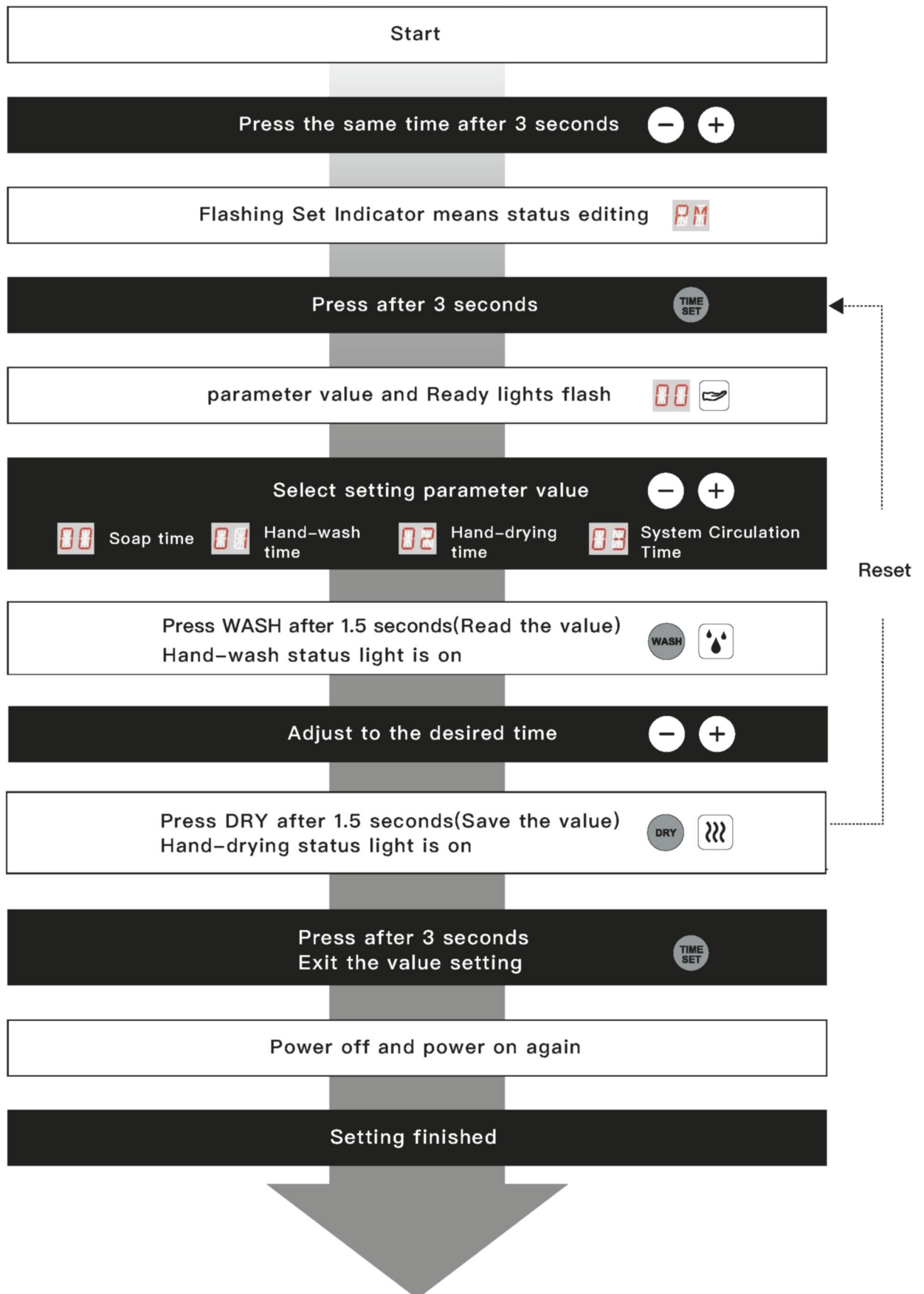
6. Operation method

6-1 Button description







<div>Auto</div> <div>Set</div>	Status Indicator	System is in sequence control status.
		System is in parameter setting status.
	Time Display	Display system parameters or sequence control seconds countdown status.
	Decrease	Decrease on per press.
	Increase	Increase on per press.
	Timer Parameter setting	Timer setting mode.
	Water supply	Water supply manually. When setting, it is the parameter value reading key.
	Drying	Dry manually. When setting, it is the parameter value writing key.
	None	When setting, it is Exit button.
	Status Indicator	System is in Ready status.
		System is in Hand-wash status.
		System is in Hand-drying status.
		Stays on is completed. If flashes means system abnormal.

6-2 Parameter setting



6-3 Time parameter setting

Parametere	Definition	System Default	Range
	Soap time	1 sec	1 sec ~ 99 sec
	Hand-washing time	5 sec	4 sec ~ 12 sec
	Hand-drying time	35 sec	5 sec ~ 99 sec
	System Circulation time	3 sec	0 sec ~ 3 sec

- Please use the allowable voltage (1 Φ 110V or 1 Φ 220V) \pm 10%, 50/60Hz.
- The CPU and operation display panel should be kept away from the power lines to avoid interference.
- When testing insulation resistance with an insulation resistance meter, please isolate the electronic control circuits of the CPU to avoid damage.
- Do not allow conductors such as metal sheets to fall or remain in the electronic control circuit of the main switchboard to prevent short circuits.
- Any line connection and disassembly must be carried out in a power-off state to avoid danger.
- Avoid placing the device in the following locations:
The places exposed to direct sunlight, places with high temperature and high humidity, places with corrosive or explosive gas, places with vibration.

7. Simple troubleshooting

- If any abnormality occur, please refer to the following table to carry out inspection.
- If the cause of the failure is unknown, or there is any problem, please contact our company.

Possible issues	Possible causes	Processing method
Windmill Inactive	The main power supply has not yet been supplies	Check if the power is working
	The fuse switch is tripped	Check the circuit
	Loose terminals or poor connect	Check the circuit
	The blower is abnormal or faulty	Restart after Power OFF
It is active but the wind speed is slow	The filter is blocked	Please replace it.
Burnt smell	Short circuit of electronic control parts.	Cut off the power and contact our company.
	Overload causing the wire to catch fire	

In order to maintain the product performance, please follow the procedures to implement maintenance and inspections, or arrange annual regular maintenance and inspections by our company's professionals (additional charges is required).

 **Cautions :** Please cut off the power before checking processing

- **Pre-filter**

The pre-filter is installed under the equipment. Please remove the air seal first and then remove it from the back. Use compressed air, vacuum or water washing (no rubbing) to clean it by yourself. It is recommended to clean it 2 to 3 times a month. To remove the main filter, the blower must be stopped first to avoid inhalation of foreign objects or injury.

- **Main filter**

The update period can be based on the air velocity value detected by the anemometer (in this case, the air velocity value is halved) or the pressure difference measured by the differential pressure meter (the differential pressure value is doubled) to decide whether to replace the device. The detection cycle is about 2 to 4 times a year.

Consumable' s list

Product name	Specification	Recommended replace period
Pre-filter	200x200 x 1 piece	About 2 weeks
Main filter	170x270x65t x 1 piece	About 3 years

9. *Contact information*

If there are any questions to AIRTECH, please contact us through our website, or call the customer service line for professional service for you.

Contact address :

- HsinChu 1st factory: No.58-1, Guangfu Road., Hsinchu Industrial Park, Hsinchu County
- HsinChu 2nd factory: No.84, Guangfu North Road., Hsinchu Industrial Park, Hsinchu County
- www.air-tech.com.tw
- TEL:+886-3-6105668
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