

1. Summary

The automatic control system of the air shower room is mainly used for the automatic control of the air shower room, the cargo shower room and the air shower channel to achieve air purification in the clean area. The automatic control system of the air shower room can automatically realize the interlocking and unlocking of the inner and outer doors; start and stop of lighting; automatic human body sensing and the start and stop of the fan; Voice prompts and other functions during all working processes. The product has relevant voice prompts during the automatic process, and has flexible functions such as air shower time, front and rear door unlocking delay time, and lighting delay time adjustable.

2. Motherboard key description



A. Description of the air shower control panel keys:

- (1) **Emergency stop button: [E-STOP]** Any time you press the emergency stop button, the LCD screen stops the graphic flash, and the system will automatically reset after 1 minute. When the emergency stop button is pressed and held for 5 seconds and then released, the system will be in the emergency stop state and automatically disconnect all the outputs except the lighting, when pressed again, the system will return to the initial state. This key is mainly used for the internal and external doors can not be unlocked, air shower can not be automatically closed and other maintenance.
- (2) **Air Shower Button: [AIR SHOWER]** After the inner and outer doors are closed, manually press the button and the system will be transferred to the air shower process. This button is mainly used for door magnetism, infrared failure or fan maintenance and repair.
- (3) **Lighting button: [LIGHT]** Use the "Light" button to control the lighting in the air shower room. This button is mainly used when the door magnet fails to work or lamp maintenance.
- (4) **Up and down adjustment keys: [UP] [DOWN]** Before or after the start or end of the air shower, press and hold the up and down adjustment keys to adjust the air shower delay time; adjust or select when entering the internal parameter setting.

8. Display description of air shower indicator lamp and digital tube:

1. The air shower countdown display: in the blue backlight LED screen display, when working it is used to display the air shower time-out value and remaining air shower time, set menu, for menu parameter display.
2. LED screen water door open graphics: when the outside door opens, the door open graphics flashes (it can be used to check whether the water door magnet is normal).
3. LED screen induction graph: when the human body enters the induction area, the induction graphics flashes (it can be used to check whether the photoelectric switch is normal).
4. LED screen inner door open graphics: when the inner door is open, the inner door open graphics flashes (it can be used to check whether the inner door magnet is normal).
5. LED screen air shower graphics: when the air shower graphics flashes, it indicates that the air shower fan has been started automatically or manually.
6. LED screen emergency stop graphics: when emergency stop graphics flashes, it indicates that the system is in emergency stop state.
7. LED screen lighting graphics: when the lighting graphics flashes, it indicates that the lighting is activated, and can be closed or activated again according to the [EMER] key.

3. Operational instructions

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Before using the internal parameter setting state, in the setting state, the emergency stop key works as the setting key. The air shower key is used as the page turning key, and the up and down adjustment keys can adjust the setting parameters.

8. After continuously pressing the emergency stop button for 30 seconds to enter the parameter setting state, such as pressing the air shower button, the 8 parameters of T1, T2, W1, W2, W3, W4 and T5 will be displayed in turn. Corresponding to respectively: W1 water door unlocking delay setting, W2 inner door unlocking delay setting, W3 air shower fan delay setting, W4 lighting delay setting, W5 function setting, T5 door interchange setting, after completing the setting, if no operation within 3 seconds, it will be stored automatically and exit the setting state.

8. air shower working parameter setting operation:

1. the wind shower time setting: this is the internal time parameter option, before or after the wind shower, press the up or down key, after the up and down adjustment button can change the wind shower delay time, the adjustment range of 1-99 seconds, and the LED screen digital display, 3 seconds after the adjustment, the system automatically save the parameter value.
2. the water door unlock delay setting T1: this is the internal time option, continuously press the emergency stop button for 30 seconds, the system enters the internal parameter setting, LED display: T1, and then press the up or down button to view the water door unlock delay time, the unit is seconds, press the up or down button in 0-99

seconds. Adjust valve, press the vent shower key to confirm and enter the next option. The button triggers the setting to exit the system user parameters within five seconds.

3. Setting of the inner door unlock delay (T2): After completing the setting of the outer door, press the vent shower button again within five seconds to enter the inner door unlock delay setting (T2), which can be viewed through the upper and lower adjustment keys and the time can be adjusted within 0-99 seconds. Press the vent shower key to confirm and enter the next option. The key press to trigger the system user parameters within five seconds.

4. Air shower, electric lock delay unlock setting (T3):

After completing the unlock delay setting of the inner door, press the air shower key again within five seconds to enter the electric lock delay unlock Time setting (T3), which can be viewed through the upper and lower adjustment keys and adjust the electric lock delay unlock time within 0-99 seconds. Press the vent shower key to confirm and enter the next option. The key press to trigger the system user parameters within five seconds.

5. Lighting delay setting (T4):

After completing the electric lock delay unlock setting, press the air shower button again within five seconds to enter the lighting delay setting (T4). The time can be viewed through the upper and lower adjustment keys and adjusted within 0-99 minutes. 0-99 is the actual minutes. Press the vent shower key to confirm and enter the next option. The key press to trigger the system user parameters within five seconds.

6. Function settings setting (F1)

Series 2 for the ordinary type, that is, 'Vent the door - induction - blowing shower - out the door' process control, series 1 for the non-induction type, that is, 'Vent the door - induction - out the door' process control, series 2 for the non-door type, that is, 'Induction - blowing shower - out the door' process control.

7. Door interchange function setting (F2)

The system has two door interchange functions: (1) When the door is closed, the system will automatically switch to the other door. (2) When the door is closed, the system will automatically switch to the other door.

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- state and waits for the next use.
- 3.2.7 The air shower is completed and the inner door is unlocked. The person inside does not leave the air shower at the specified time, the system default setting is that the person may have left and automatically returns to standby mode.
- 3.2.8 The lighting is automatically extinguished after it has been illuminated and has not been triggered within a specified period of time.

2. Leave the clean area

- 2.1 Open the inner door, the outer door electric lock is locked, the air shower lighting is lit, and the work indicator light is on.
- 2.2 The person walks into the air shower room, closes the inner door, the system starts to detect whether someone is in the air shower room. If no one is detected within the specified time, the inner and outer doors will be unlocked.
- 2.2.1 A person is detected, the system waits for the person to open the outer door, the inner door is locked, when the outer door is closed, the system returns to the initial state.
- 2.2.2 In case of special circumstances, personnel can choose to return to the clean area. The system waits for personnel to open the inner door or outer door, it will be extinguished and locked, when the inner door is closed, the system returns to the initial state.
- 2.3 After the outer door is opened, if no one can be detected within the specified time, if the outer door is opened first at the time, the system will be transferred to the process of entering the clean area, if the inner door is opened first at the time, the system will be transferred to the process of leaving the clean area.
- 2.4 The lighting is automatically extinguished after it has been illuminated and has not been triggered within a specified period of time.

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