

ULTRASONIC INDUSTRIAL HUMIDIFIER

INSTRUCTION MANUAL

READ INSTRUCTION MANUAL CAREFULLY BEFORE USING

SGH-18L



SGH series ultrasonic industrial humidifier adopt computer control system, with many advantages such as good reliability, easy control, various function, and beautiful appearance. This product apply to constant temperature and humidity unit, fresh air handling unit, air duct, humidify directly to the air.

Safety caution

- The machine must be operated by the technician with qualifications after reading this instruction manual.
- All the parts must Comply with the national electrical standards.
- Ensure the supply voltage within the required range.
- Ensure the “+” and “-” is right inserted for control signal
- Ensure ground connection is good.
- Use condition: temperature with 0-55℃ , humidity not over 95%RH. No combustible or explosive materials are allowed to be placed around it.

Setting and operating

Intelligent humidity controller

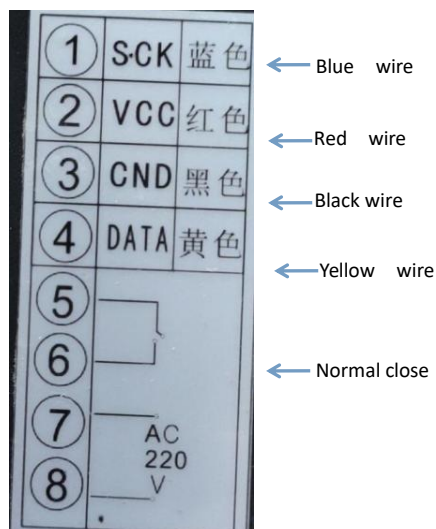
Features:

1, This Humidity controller with high reliable computer chips, and high-precision humidity sensors, based on the technology of intelligent software control.

2, The controller is anti-interference, with high controlling precision and flexible controlling mode.

Type	
Supply voltage	AC220V 50-60Hz
power consumption	1.5VA
Control output	8A 250VAC
Display device	LDE
Setting time	1~9999Min
Setting humidity	0~99.9%RH
Resolution	0.1%RH
Precision	±5%RH
Error correction for sensor	±9.9%RH
Operating mode	4 types (0、1、2、3)
Environment temperature	-10℃ to 70℃
Environment humidity	45 to 85%RH
Machine life	Min 3000, 000 cycles
Size	48×96×110mm
Way to install	Plate-type , opening size: 44×92mm

Wiring :



1,2,3,4 is the connection for Sensor wiring; 5,6 is the input signal for humidity and time; 7,8 is the power connection.

Operation:



The button from left to right: Setting, Shift, Increase, Decrease. As picture:

1, Setting : press this button 2 seconds, starting the setting, if press again, then enter the next setting, until dropping out. The upper red numbers are setting parameters, HL is setting for humidity, HC is the setting for humidity return difference, OC is turn-on the time, OF is turn-off the time. The lower numbers are setting value. After finishing the setting, the system drop out automatically, and keep setting data, showing the current humidity. Under the setting, if no working within 10 seconds, the system will drop out automatically.

2, Shift : if you press this button when setting, the chosen (shinning) figure will turn right-ward, until the end figure goes back to the original position. In the normal mode, if you press this button for 2 seconds, the upper shows CCCC, and lower is setting mode (0-3), press again, then drop out.

3, Increase : under the setting situation, can increase the chosen figures. In normal mode, press this button for 5 seconds, start the setting for sensor correction, the upper shows HHHH, lower is setting mode ($\pm 9.9\%RH$), press again, then drop out.

4, Decrease : under the setting situation, can decrease the chosen figures.

5, Error correction for sensor: when comparing with higher-precision device, if humidity for this machine is higher or lower, can start the error-correction.

For example: the humidity is 1%RH higher, the HHHH setting will be -1.0, if humidity is 1%RH lower, the setting will be +1.0.

6, Control mode: when working mode is (CCCC) is 0, it's humidification, when mode is 1, it's dehumidifying, when mode is 2, it's non-work, when mode is 3, it's time control mode.

7, setting for return difference: this setting is to avoid the control vibration when the humidification reaches the highest point, and can control the vibration in the allowed scope, but it decrease the control precision at the same time, setting between 0.0~100.0 according to the request. After finishing the setting, work mode 1 (return difference absolute value = control value - return difference value), work mode 0 (return difference absolute value = control value + return difference value), work mode 2 & 3, the return difference is invalid.

For example:

Work mode 0, control value is 28, return difference is 3, the return difference absolute = $28+3=31$

Work mode 1, control value is 28, return difference is 3, the return difference absolute = $28-3=25$

Work mode 2, only the use for humidity showing.

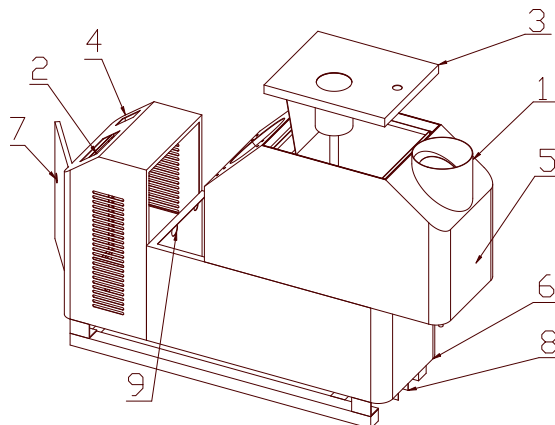
Work mode 3, time control mode. OC for turn-on the time, OF for turn-off the time. (work mode stands for CCCC parameters)

When work mode is 0, 1, 2, the upper figure shows humidity, and lower figure show control value. And when work mode is 3, upper figure shows humidity, lower shows time, and time value decrease with the change of time, when reaches 0, turn on or turn off time for cycling.

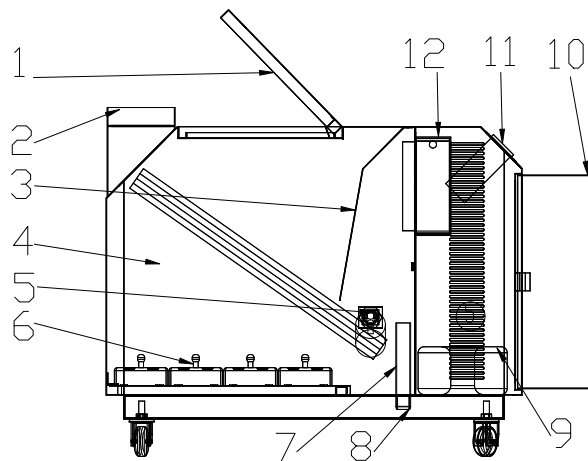
Operating instruction

- ① First put the machine on flat ground, insert the air pipe;
- ② check the drainage valves is close;
- ③ plug into power supply with the power line enclosed machine, the fan will work and start to water;
- ④ if you want to water by hand, open the upper water tank, water inside and stop when the light on panel be red;
- ⑤ if you want to tap water, use the flexible pipe to connect tap, open the tap, when water reach the limited level, it will stop by the control of floating ball;
- ⑥ setting the controller (follow the instruction of controller above), the machine start to work when the current environment humidity below the low limit you set, and it makes fog when water reach the limited level;
- ⑦ fog will stop when the current environment humidity above the upper limit you set.
- ⑧ Don't rock machine wildly during working.

- 1,hole for fog
- 2,control panel
- 3,upper water tank cover
- 4,fuse (power supply safety)
- 5,upper water tank
- 6,lower tank
- 7,maintain door
- 8,water out
- 9,water intake



1. upper cover
2. hole for fog
3. air deflector
4. water tank
5. water inlet valve
6. ultrasonic atomizer
7. overflow pipe
8. offlet pipe
9. power switch
10. maintain door
11. control panel
12. fan



Routine attention and clean

- routine attention: ① cut off power and water when nobody in house ② don't put anything into hole for fog, for example washing powder, soap suds, etc. ③ keep the good contact of all switch and lines ④ be careful to the connected line and pipe when walking around the machine.
- cleaning method : preparations for cleaning of ultrasonic atomizer(at least twice per month): cut off the power switch and take off the plug, close the water inlet valve, open the drain valve and exhaust water, remove the upper cover, drip the scale cleaning agent into each vibrator of ultrasonic atomizer, soak for about 30 minutes, clean the water tank and vibrators by soft brush or towel, flush tank by clean water for several times, exhaust the dirty water. Notice, be careful to not damage the parts in tank when cleaning.

Attention and caution

- The machine should be horizontal installation. The connection of air pipe should be sealed, avoid leakage of air and water. Keep the supplied water pressure in 0.1-0.3mpa, use water pump if it is under pressure.
- If use softened water, purified water, and mineral water, clean the vibrator per month; if use the tap water, clean the vibrator per week.
- using clean water without pollution : softened water, purified water, and tap water. The temperature of water not over 30℃.
- be careful when take off the air pipe, don't rock wildly in case damage the hole.
- don't move the water inlet valve when installing and using, or it may can not function properly when waters automatically .
- if the machine not use for long time, exhaust the water in machine, cut off the power and water supply, put machine in condition of cool and dry.

Safety caution

1. don't take apart the machine to repair or adjust without guiding of technician
3. cleaning agent far away from child.
4. any unprofessional changing or refit may lead to danger.
5. any abnormal sound or smell of machine when working, pls power off and take off the plug, then repair the machine by professional.
6. avoid cleaning agent to touch mouth and eyes, if happened, wash soon and go to hospital.
7. if you want to clean, water or move the machine, pls power off and take off the plug. Don't touch the water and parts in tank when machine working.
8. never power on and start work if no water in tank.
9. be careful when washing tank and vibrator, avoid the water splash into the engine base and damage the parts in machine.

Common fault diagnosis

■ humidity value on control panel is “- “

Check if sensor is plug, if not, plug.

■ water leakage

① check if drain valve is closed ② check the connection of water intake ③ check the connection of water softener.

■ machine does not work

① check power supply, switch on ② check if power supply safety damaged

■ wind from the machine, but no fog

Maybe too many water in tank, drain off some water

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