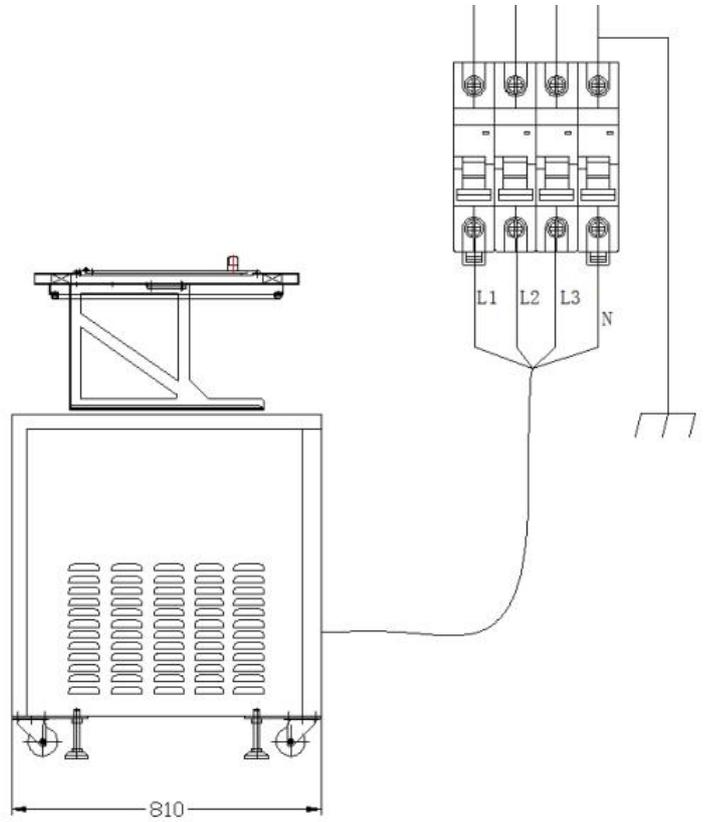
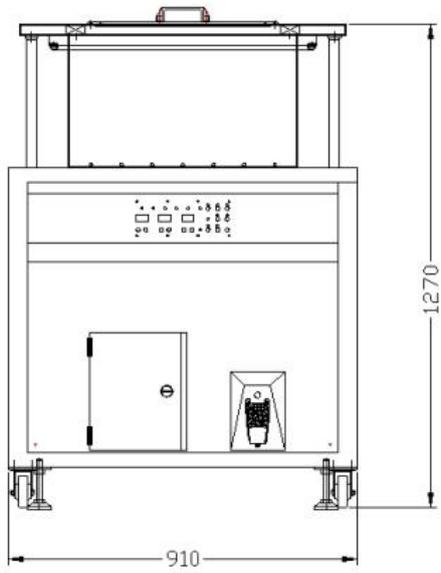

UC-1000SG-IF-LF Series Industrial Ultrasonic Cleaner

User Manual

- I. Product picture overview
- II. Specification
- III. Operation Pane Instruction
- IV. Operation Steps
- V. Wiring diagram
- VI. Precautions
- VII. Maintenance
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I. Product pictures overview

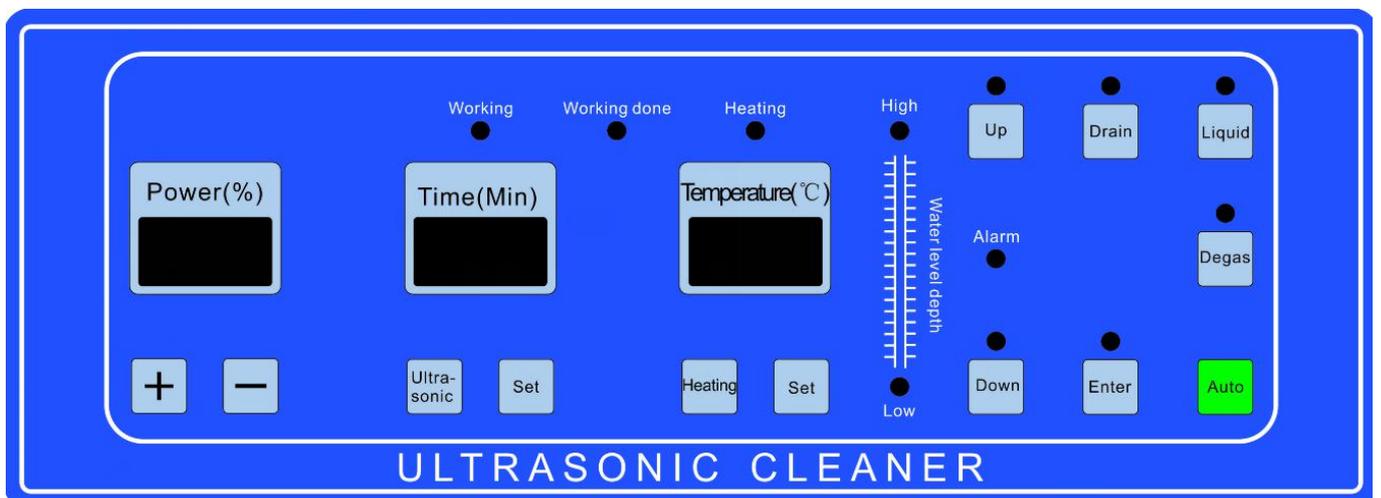


II. Specifications

Specification(Can be customized tank size)

Model	Capacity (Liter)	Ultrasonic Frequency (KHz)	Ultrasonic Power(W)	Heating Power (W)	Transducers Qty (PCS)	Inner tank dimesnion (MM)
JYD-1012SG	45	25/28/40	600	1500	12	500*300*300
JYD-1018SG	61	25/28/40	900	2000	18	500*350*350
JYD-1024SG	88	25/28/40	1200	3000	24	550*400*400
JYD-1030SG	108	25/28/40	1500	3000	30	600*450*400
JYD-1036SG	147	25/28/40	1800	6000	36	650*500*450
JYD-1042SG	163	25/28/40	2000	6000	42	650*500*500
JYD-1048SG	175	25/28/40	2400	6000	48	700*500*500
JYD-1060SG	240	25/28/40	3000	9000	60	800*600*500
JYD-1072SG	300	25/28/40	3600	9000	72	1000*600*500

III. Operation Panel Instruction



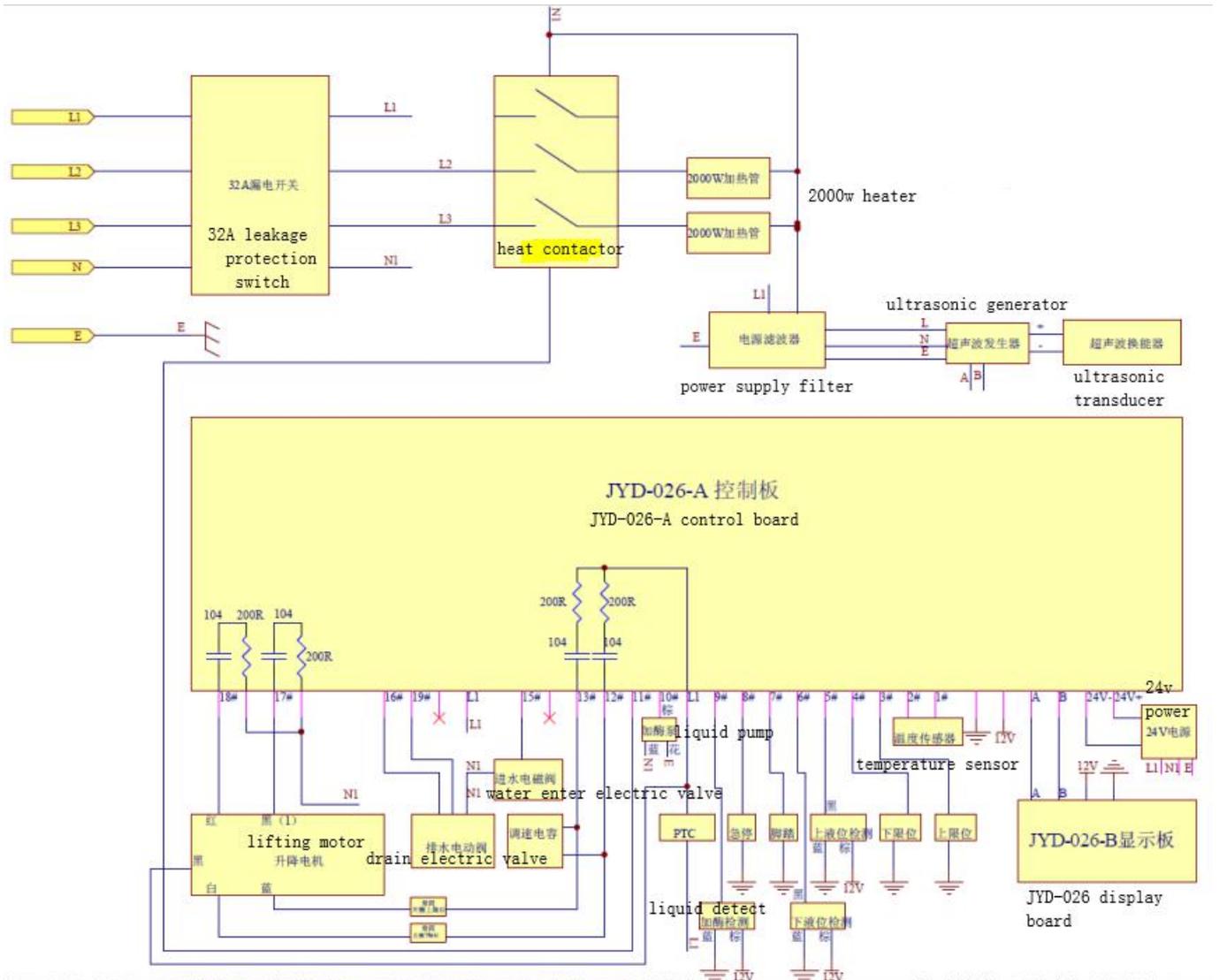
Function description

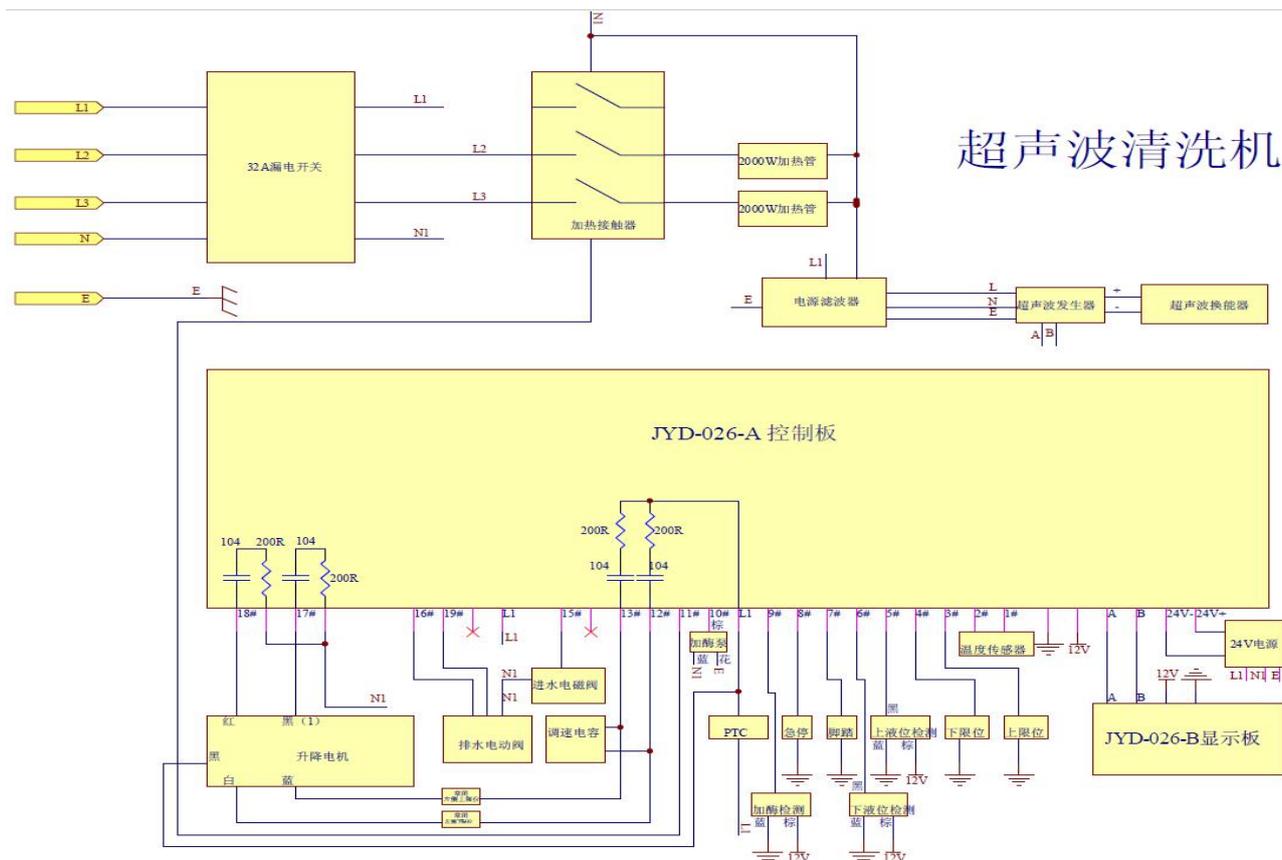
1. **Power +/-:** press this key to add 5% ultrasonic power, long press to speed up the setting, 5% to 100% in a cycle.
2. **Time set:** press this button to adjust time in one second each time, long press to speed up the setting. Time setting range from 0 to 100 minutes in a cycle.
3. **Ultrasonic:** press this button to starts ultrasonic cleaning, ultrasonic working indicator lights up, press this button again, the ultrasonic stops working, and the ultrasonic working indicator goes out.
4. **Temperature set:** press this button to adjust temperature at 1 °C each time ,long press to set temperature fast. Temperature 30 °C to 90 °C adjustable in a cycle. (normally display the actual water temperature, the display will back to the actual temperature if no operation in 10seconds on temperature setting mode).
4. **Heating:** After setting temperature, press this button to let the machine starts heating, the heating indicator flashes, press this button again, the heating stops, the heating indicator goes out.(when the heating temperature reaches the setting temperature, the heating stops working and the heating indicator is always on).
5. **Up:** Long press this button to let the washing basket raise up automatically, the up indicator will be on. You can stop when the baskets raised up to the maximum height.
6. **Down:**Long press this button to let the washing basket drop automatically, the down indicator will be on. You can stop when the baskets return to the tank fully.
7. **Drain:** Press this button to let the machine drain automatically, the drain indicator light is on. When the drain is completed, the machine will stopped drain automatically, the indicator light will be off.If the draining water returns back to the tank, long press this button in 3seconds can open the drain forcibly.
8. **Enter:** Press this button to let the water enter the tank, the enter indicator light is on, the machine will automatically adds water.
9. **Liquid:** Press this button to automatically add the liquid, press this button again to stop adding liquid. You can long press the liquid button and same time press time set button to set the time for adding liquid, time setting range is 5 to 250seconds.
10. **Degas:** Before starting ultrasonic cleaning, press this button can let the air or bubble out of the cleaning water.(during the ultrasonic cleaning, please don't press this button)
- 11.**Auto:** Press this button ,the machine can proceed cleaning automatically: washing basket drop - automatic adding water - degassing - ultrasonic cleaning starting - washing basket rise.
12. **Alarm:** heating in the absence of water or starting ultrasonic in the water shortage, and communication failure between the control board and the generator, the alarm light will be on and same time the buzzer will sound an alarm (press the ultrasonic button can cancel the alarm) .

The 14 fault code is as follows:

	Fault code	Fault reason
1	AL-1	Lack of water alarm
2	E-10	Generator Communication Failure
3	E-2	Up water level detecting Failure
4	E-3	Down water level detecting Failure
5	E-4	Liquid detecting Failure

IV. Wiring diagram





超声波清洗机

IV. Operation Steps

Set the temperature and time, add the liquid according to the enzyme button, put the washing basket of the workpiece into the cleaning bracket, press the foot switch - wash basket drop - automatic hydration - ultrasonic cleaning start - -- After the cleaning time is reached - the washing basket rises - the cleaning is completed.

VI. Precautions

During the use of the machine, if the machine is placed in a humid or corrosive gas, dust, etc. environment, it is easy to cause the breakdown of the transducers, ultrasonic circuit and other faults, thus affecting normal use. High-Q piezoelectric ceramics and electric heating components if catch the moisture, water vapor, conductive dust, oil pollution and severe external impact will cause insulation degradation, electric leakage, short circuit, shedding, cracking of ceramics, etc.; the ultrasonic circuit board if is affected with water vapor, corrosive gas,

conductive dust attack, power supply voltage fluctuations, etc., will cause components to fire, component feet are corroded, power amplifier components are broken down, burned and other faults. Therefore, you should pay attention to the following during use:

1. It is forbidden to start the heating and ultrasonic without cleaning liquid in the cleaning machine tank to avoid damage to the heating plates and the transducers;

(When adding water, it should be higher than the highest level sensor switch or until the HIGH light is on)

2. To prevent hard object impact and strong vibration, do not place the cleaning items directly on the bottom surface of the tank;

3. Do not allow the cleaning fluid to overflow the tank during use. Do not flush the panel or the casing with water to prevent water from splashing into the ultrasonic transducers or circuit board, causing malfunction and endangering safe production;

4. Do not use the machine in a humid, non-ventilated, flammable or explosive environment;

5. The power supply voltage changes beyond the allowable range and should be suspended.

6. If the ultrasonic transducer is short-circuited by moisture or pollution, or is broken due to impact, falling off the ultrasonic transducers, etc., it needs to be sent back to the factory for repair;

7. If the ultrasonic effect suddenly becomes weak, it maybe resulted from the failure of the ultrasonic circuit board. Should be inspected first then put into use again.

8. The ultrasonic generator should be used at an ambient temperature below 30°C;

9. A variety of different cleaning media have different cavitation active temperature, the appropriate temperature should be selected according to the actual process requirements, in order to improve the cleaning effect.



VII. Maintenance

Regularly clean dirt and other attachments, wipe the surface, keep the body and tank surface clean and free of moisture;

1. Clean the floor regularly to make the water supply and drainage around the machine smooth and avoid water accumulation;

2. Regularly check the grounding of the machine body, the insulation resistance value of the transducer (normal $\geq 5M\Omega$ or more). When the insulation value is too low, consider the role of avoiding adverse environmental factors and take drying measures.

3. Keep the environment well ventilated and avoid water vapor dust passing through the ultrasonic generator;

4. This machine should be used by special personnel to prevent false operation of unfamiliar situations.

5. Please regularly maintain the mechanical transmission parts. For frequently moving parts (reducer output shaft and sprocket; transmission rod and deep groove bearing; sprocket and chain; slider and carton guide.), these moving parts need to be regularly maintenance and lubrication.



VIII. Troubleshooting

1. No ultrasonic:
 - (1) Check whether the power supply voltage is in compliance;
 - (2) Whether the thread ends and switches are loose;
 - (3) Whether the fuse is burnt;
 - (4) Whether the power tube damaged?
2. The ultrasonic wave is weak:
 - (1) Whether the transducer is damp (the vibration plate is flooded);
 - (2) Whether the generator power tube is normal;
 - (3) Whether the power supply voltage is too low;
 - (4) Whether the cleaning items' temperature and cleaning liquid are suitable.
3. Leakage:
 - (1) Whether the power supply circuit is damp or not, and whether the power supply voltage fluctuates frequently;
 - (2) Whether the machine is damp or corroded;
 - (3) Whether the cable conduit of each component has external damage, falling off or disconnected;
 - (4) Whether the heating plate is burned or broken down;
 - (5) Whether the grounding is good;
 - (6) Is the patch cord after self-repairing correct?
4. If the customer cannot solve the malfunction by himself, please send it back to the manufacturer or the manufacturer to send staff to repair.