

UTENSIL WASHER

Model : GT-UW/L

Installation & Instruction Manual



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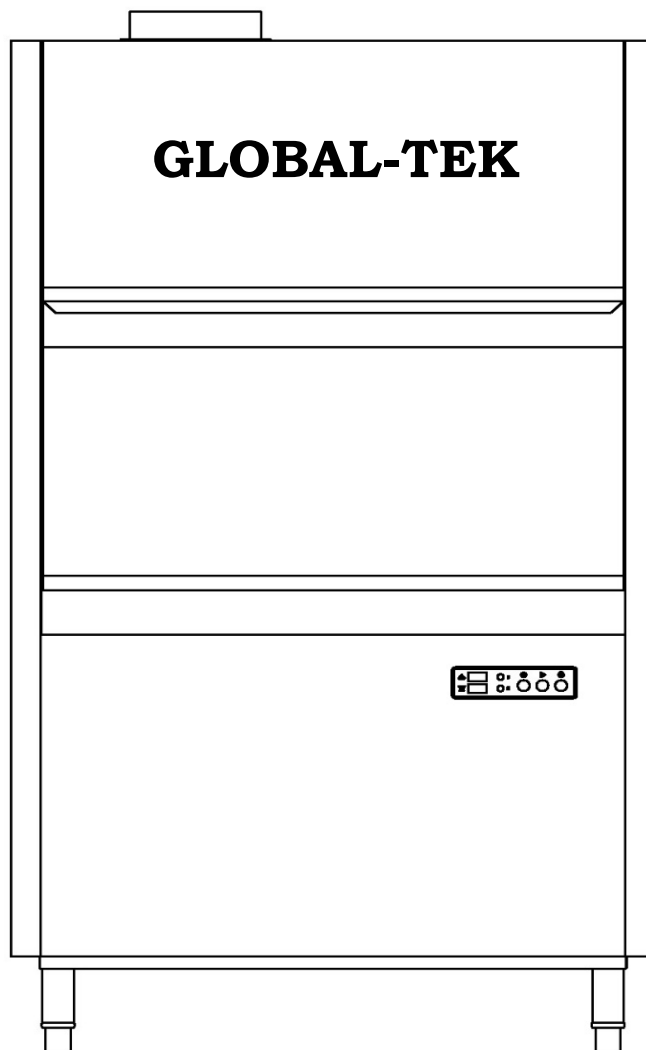
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Overview

The GT-UW/L utensil washer is a semi-automatic machine with front door opening, when door opened, it becomes a loading perform to push in or pull out the rack. When water tank water level is filled as per required, both heating elements in wash tank and booster tank will be activated to heat both tanks to the set temperature. Once temperatures are reached, machine is ready to be used. When wash tank water level is below setting, the machine will fill automatically once door is closed.

To start washing, close the door, select the wash cycle needed, press the start button, machine will enter the washing and rinsing cycle;

The machine is a built-in 9 kW heating element for booster heater and 9 kW for wash tank. Wash motor is 4kW / 5.5 HP.



Before installation

Kindly refer to the specifications on the name plate located on the right side of the machine to determine if the power supply matches it. When opening the machine control panel, check for any damages caused due to shipping / transporting. If any damages are found, please keep the packaging materials and notify the supplier within three (3) working days from date of machine received.

Select the appropriate location

Place the machine in the appropriate operating position, with careful consider on the operating factors such as electrical wiring, water piping, drainage connection, automatic chemical dispenser, routine cleaning & maintenance needs, should have sufficient space for door opening. (Please refer to Figure 1).

Machine height can be adjusted by adjusting the feet to meet operators' requirement for daily easy operation.

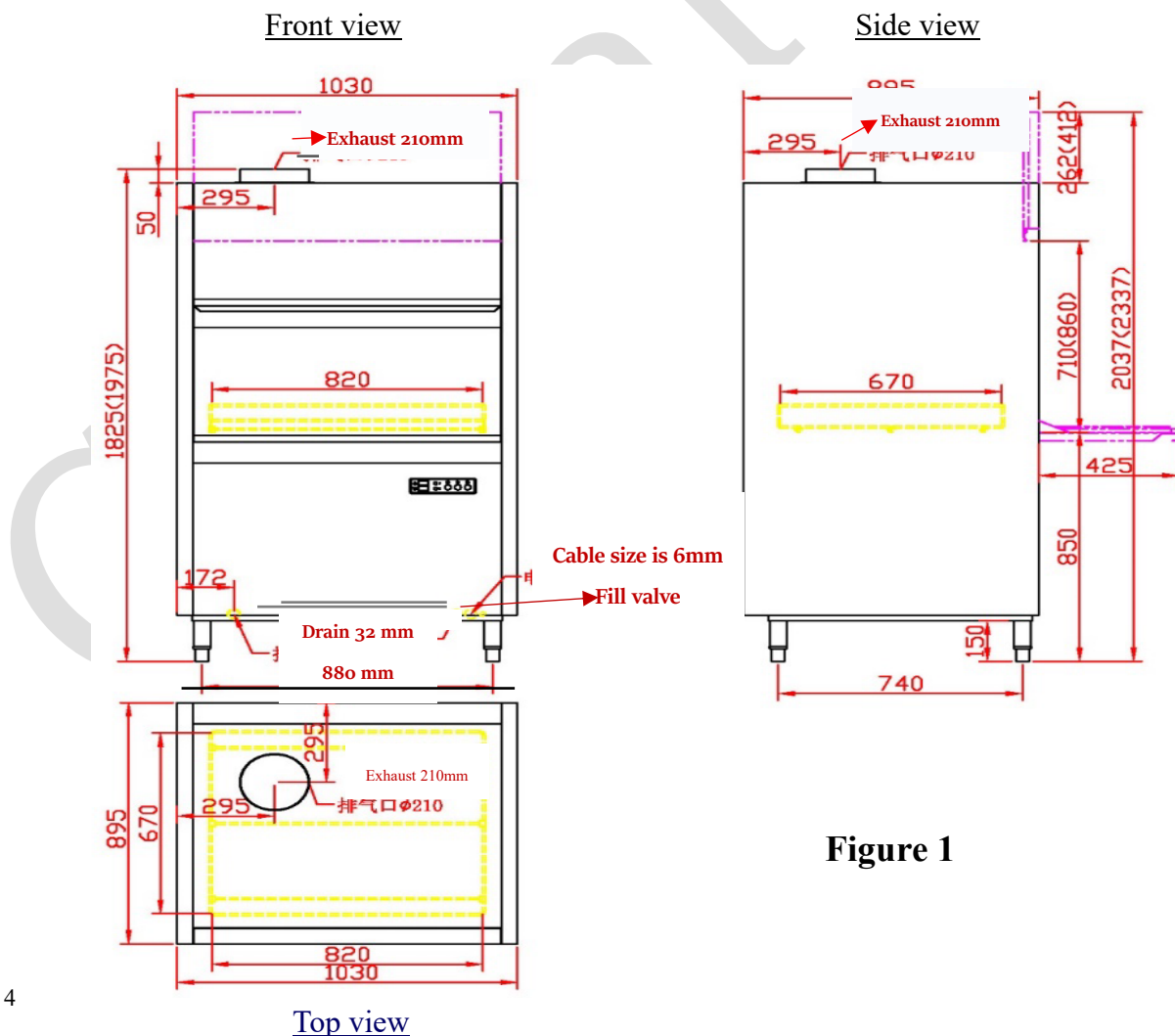


Figure 1

Electrical connection

- Warning: Electrical and ground connections must comply with the applicable provisions of the National Electricity Code and other local power regulations.
- Warning: Cut off the power supply and hang a clear sign at the power switch to let others know that you are renovating the circuit. Refer to the instructions on the power supply line and the electrical schematic inside of the machine control panel to properly connect the power supply.

Check the direction of motor rotation (applicable for three-phase motors)

- Warning: The three-phase motor must rotate in the same direction as indicated by the direction arrow on the pump housing. If the direction of rotation is incorrect, switch off the power supply and swap any two power supply phase lines, and then turn on the machine to reconfirm the direction of rotation is correct.

Chemical dispenser wiring connection (not included).

Connect detergent signal from 2FU and N terminal blocks in the control box, drying agent signal from 3FU and N terminal blocks (see Figure 2), total current cannot exceed 3 amps.

- Note: All wire connections should take into consideration the movement of the electrical box and avoid wire stretching.
- Note: Please use insulated sheathed wires able to handle voltage of more than 600 volts.

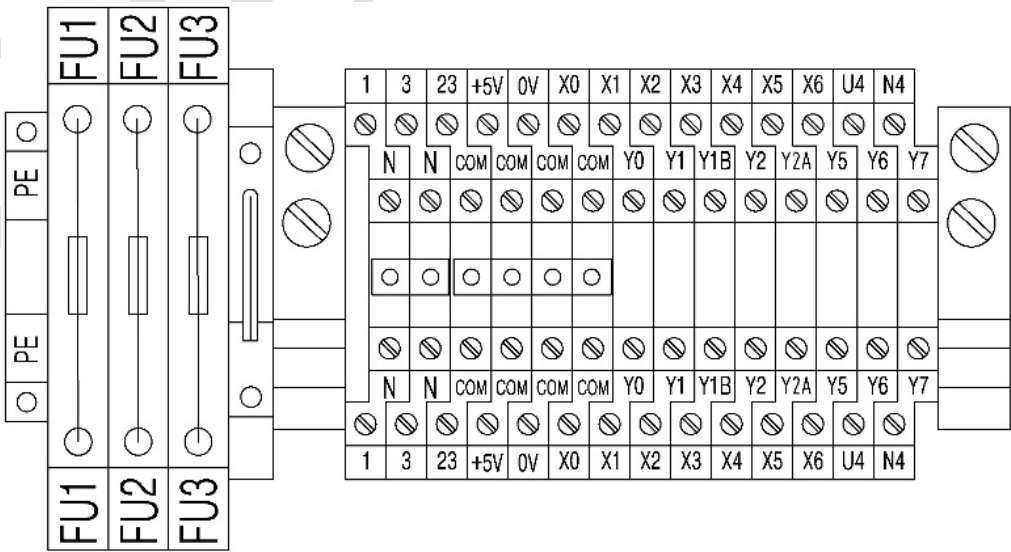


Figure 2

Water pipe connection

- ⚡ Warning: The water pipe connection must comply with the relevant sanitary and safety standards and water pipe installation regulations.

Water supply

Connect the machine water inlet hose to the water source (3/4" pipe thread).

Water supply specifications

Inlet water temp.		Inlet water pressure (flow pressure)	
Celsius	Fahrenheit	psi	Kg/cm ²
10~60	50~140	15~25	0.7~2.0

Drain pipe connection

Connect the drain pipe of $\phi 32$ under the tank to the appropriate drainage point. If the regulations require installation of an oil separator, its flow rate per minute should be at least 95.5 liters.

- Note: Please test the pressure of the inlet water line after connected, if the flow pressure is less than 0.7kg/cm², please install a pressure pump (excluded); if the static pressure is greater than 2kg/cm², please install a pressure regulator (excluded).

Connection of drying agent

Open front panel of the machine, there has a drying agent connection above the left side of the booster tank. Kindly fix the drying agent injector as per usual practice. (refer to Figure 3).

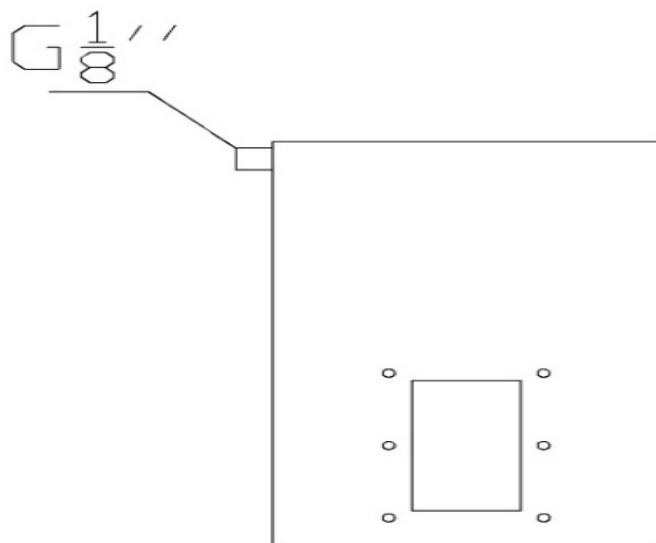
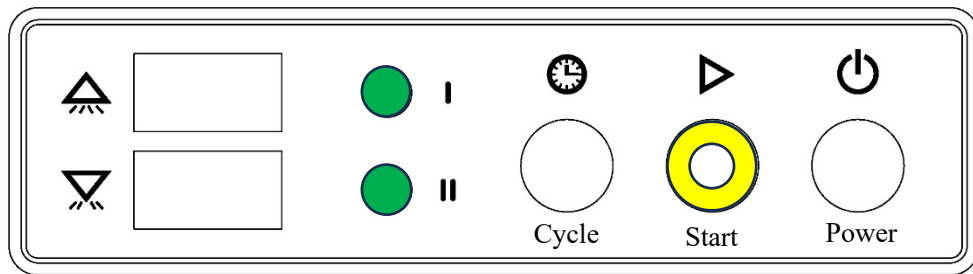


Figure 3

Control Panel



Press once the power switch , and the power indicator light is on, indicating that the machine is on; press it again, and the power indicator is off, indicating that the machine is off.

Wash cycle selection,  after pressing the cycle button, there is a green indicating light on the left. Cycle I for 4 minutes and cycle II is 6 minutes. Press cycle selection button to select the appropriate wash cycle needed.

Working indication, When the start button  is pressed, the machine is in the process of cleaning; when the indicating light is off, the wash & rinse process are over.

To start the cleaning process, press start button more than 1 seconds after the door is closed.

This icon  shows the wash temperature, and  shows rinse temperature.

To drain the tank water, pull the drain pipe from the wash tank, tank water will drain by gravity.

Recommended operating temperature

(however, kindly follow the local rule & regulation for the most appropriate operating temperature)

Wash with water	55 to 65 degrees Celsius (131 to 149 degrees Fahrenheit).
Rinse with water	82 to 90 degrees Celsius (180 to 194 degrees Fahrenheit).

Prepare for washing

- ◆ Make sure all scrap trays, drain pipe are in place on the wash tank.
- ◆ Close the door.
- ◆ Press the Power button, control panel will on, both booster tank and wash tank will fill automatically to the required level. It might take slight longer than normal if incoming water pressure is lower (a booster pump is suggested).
- ◆ Fill will stop automatically once it reached the required level. Both booster tank and wash tank heaters are cut in to heat up tank water to the required temperature. Usually, it takes 5-10 minutes to reach the set temperature.
- ◆ Once temperature reached, you may start to wash. Cleaning detergent and drying agent will be injected accordingly as per chemical supplier's setting.

Washing

- ◆ Remove large food debris from the wash items manually by a hand brush.
- ◆ Choice appropriate wash program, either 4 or 6 minutes wash cycle. It is depends on the soil level of the items to be washed.
- ◆ Place the items to be washed into the rack, not to stack the items together to ensure the water solution and fresh rinse water are able to reach all areas of the washing items.
- ◆ When the rack is loaded, push it into the washing machine and close the door. Press the start button under the start icon for more than 2 second to start the washing and rinse program.

At this point the start button indicator light is yellow After the wash and rinse cycle ends, the indicator light will off, open the door, pull out the rack and remove the clean utensils. Proceed to the next batch of utensils that need to be cleaned.

If a cycle is completed but machine door haven't open, even you press the start button at this time, the next cycle will not kick off, as need to open the machine door and close once as a signal for the machine to start another cycle.

Clean the machine

We recommend thorough clean the machine after each operation (after use with each meal), or at least once a day.

The cleaning steps are as follows:

1. Turn off the power supply ;
2. Open the door ;
3. Clean the stainless steel work platform and let the water flow back to the utensil washer;
4. Pull out the drain pipe to drain the water;
5. Remove the scrape tray, garbage basket and pump intake screen, clean them thoroughly;
6. Clean & rinse the inside of the utensil washer thoroughly;
7. Put back all items correctly that have taken out;
8. Open the door to allow air dry the interior of the machine ;
9. Check to make sure that both upper & lower wash and rinse arms are installed correctly and rotate freely;
10. Check both upper and lower wash & rinse arms are not clogged, clean it if found.

Daily maintenance

- ⚡ Warning: Before you start any repair work, cut off the power supply and hang a clear sign at the power switch to let others know you are repairing the circuit.

Wash arm and rinse arm

Upper & lower wash and rinse arms install in place and rotate freely.

If the scrape tray, scrape basket, or pump intake screen are not installed, foreign objects (such as food scraps or bones) may cause the washing arm nozzles cloggage. The washing arm can be easily removed for cleaning.

To remove the wash and rinse arms, loosen the nut between the wash and rinse arms.

Note: Up and down wash arm seals do not have to be removed.

When removing the wash & rinse arms, please pay attention to holding the arms when loosening the knurled nut, and do not let the arms drop.

Troubleshooting

This section is some hints for simple trouble shooting, but if the problem persists please contact your local authorized dealer for servicing.

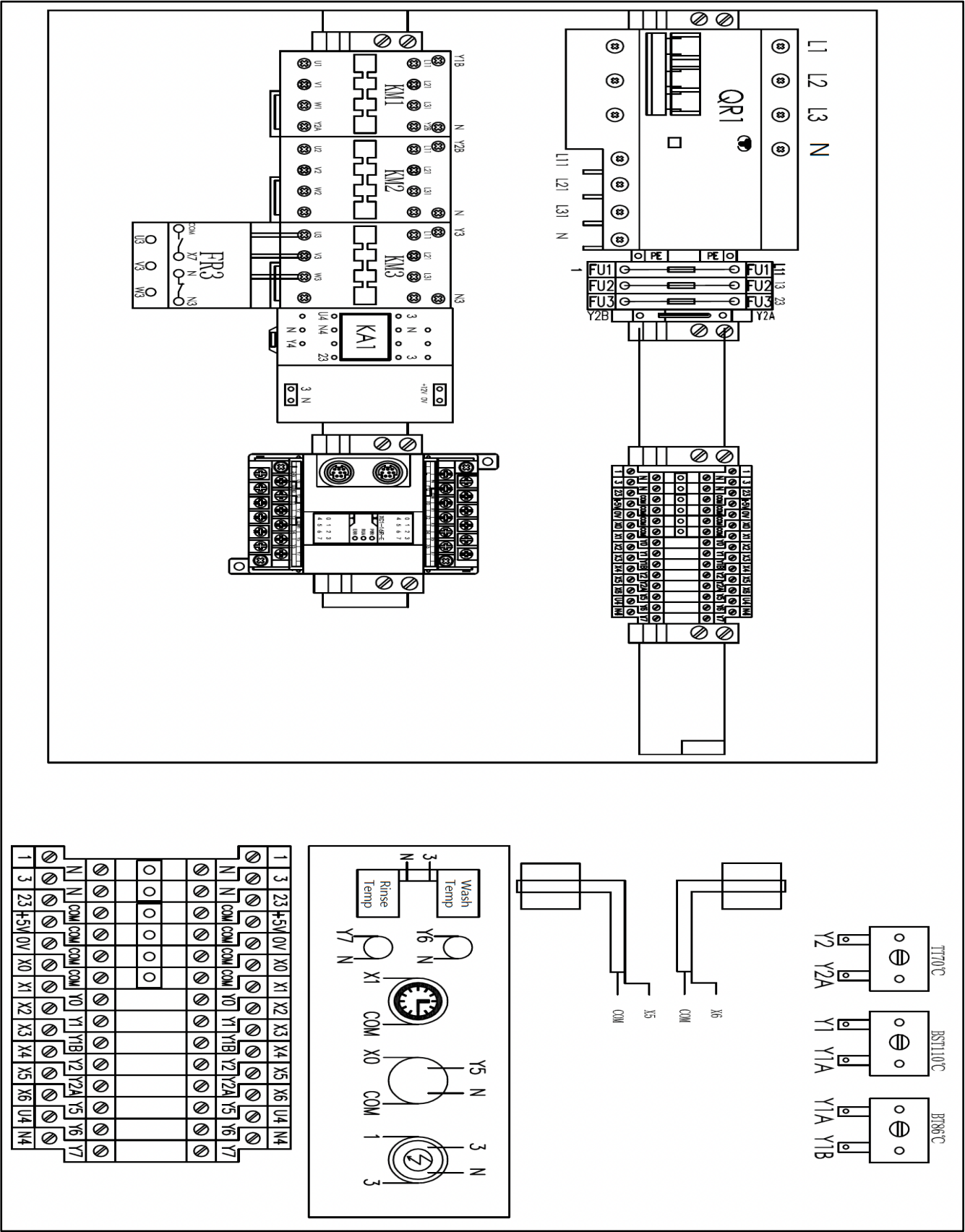
issue	Possible causes
Machine does not run	1. Open the door for 2 seconds and then close it. 2. Check power fuse. 3. Check whether the FR3 thermal relay at the lower end of the 3KM in the electrical box is overloaded, and the input point X7 on the PLC is lit up when overloaded. 4. The water level of the water tank has not reach the required level, PLC lights at X3 and X4 are off when the water level is reached. 5. Check door magnetic switch at upper right of machine is damaged, the PLC input point X2 is lit up after the door is closed.
Wash for a long time	1. The water temperature of the rinse booster tank has not reach the set temperature. 2. The water level of the rinse booster tank does not reach a high water level, please check the inlet filter and solenoid valve.
Not Clean	1. Check wash motor is running in correct direction. 2. Check whether the FR3 thermal relay at the lower end of the 3KM in the electrical box is overloaded. 3. Check pump intake screen of the wash pump is blocked, resulting in insufficient water pressure. 4. The water temperature is too low. 5. Insufficient detergent dosage. Please contact your detergent supplier. 6. Too much lime/dirt deposition. A descaling procedure may be required.
Water spots found	1. Improper racking. 2. Rinse temperature is not enough. 3. The water hardness is too high. 4. The detergent is not suitable. 5. The drying agent is not suitable. 6. The concentration of cleaning agent and drying agent is incorrect.
No rinse, no fill or slow fill	1. The inlet filter is too dirty, slowing down the water flow. Turn off the water source, open the inlet hose fitting and solenoid inlet fitting, remove the strainer and clean it, and then reinstall it. 2. The water pressure of the water supply line is too low.
Abnormal LED light on condition	1. After pressing the start button for 1 second, it lights up and is in normal working mode. 2. After pressing the power switch, it lights up directly, indicating that the wash motor is overloaded. Check whether the power supply is out of phase and the

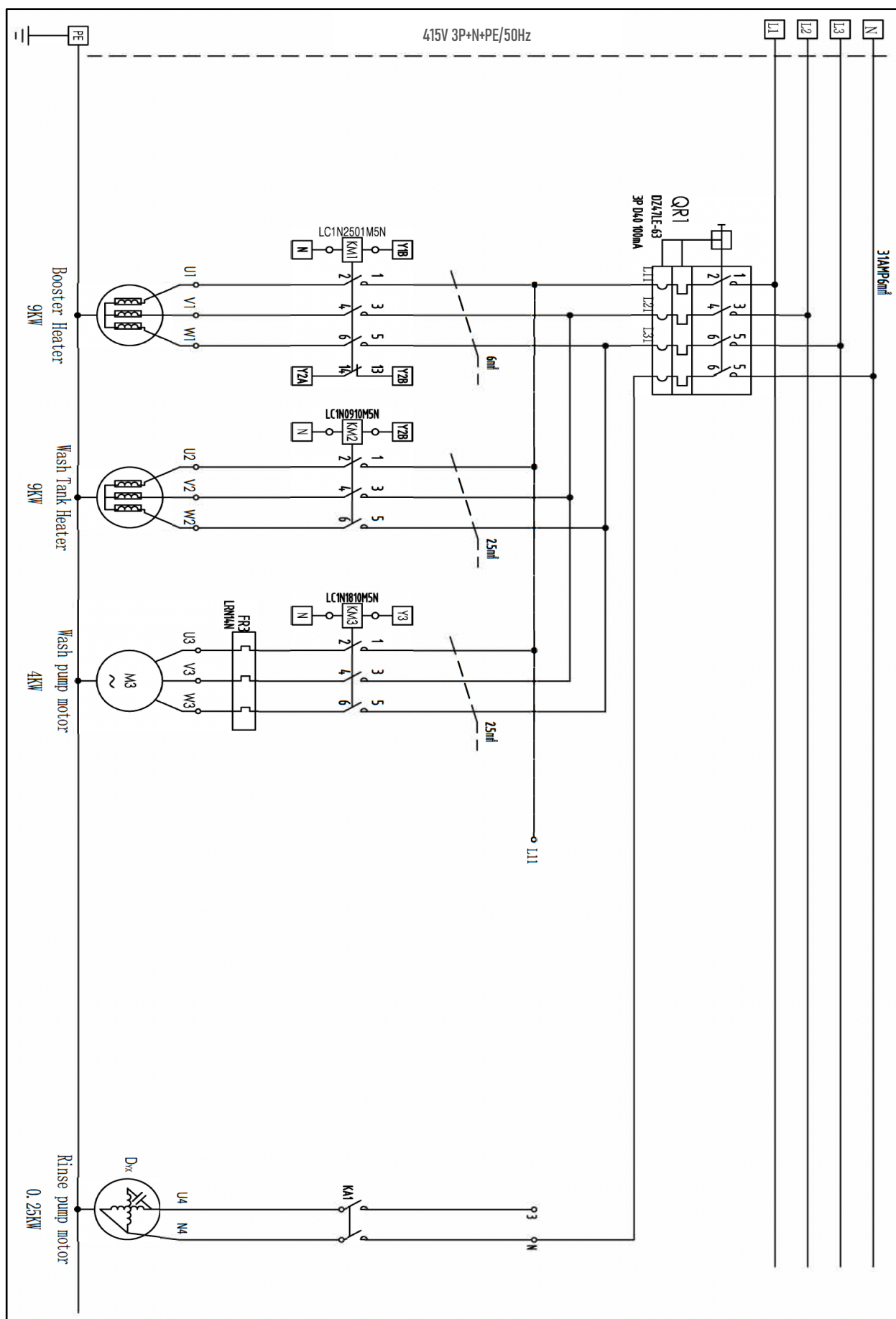
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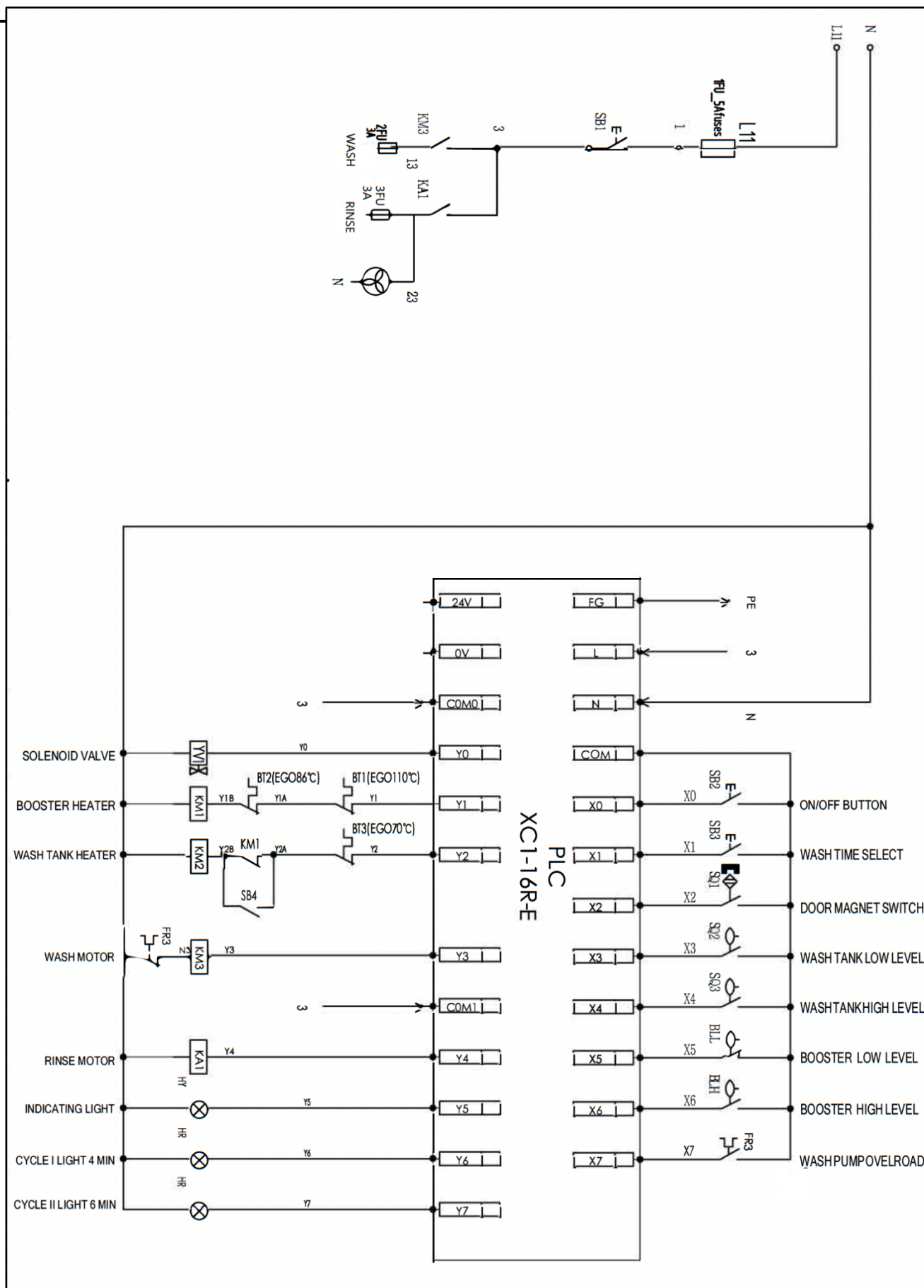
	motor is blocked, or the thermal relay is too small to regulate. 3. In the process of water filling, if the start button led is on/off in 1.5 seconds interval, indicating that the water injection is abnormal, check whether the low water level switch of the wash tank is damaged, check whether the wash tank drain pipe is plugged firmly, 4. Check incoming water valve is switch on. 5. In the process of water filling, if the start button led is on/off in 3.0 seconds interval, indicates that the water level switch in the wash tank is faulty.
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If any repairs and adjustments are required for this machine, please contact your local authorized agent.

Wiring Diagram







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