

## Operation Manual of LZ-500



### Before Operation

1. When you receive the machine, firstly check if it's in good condition after the long transportation.
2. The machine is dismantled in pieces for transportation. You just assemble it according to the drawing and photo.
3. A professional electrician is needed to check the wires inside the control panel to make sure they're not loosened. Loosened wires may cause electric shock or burning etc.
4. All electrical wires are numbered. Please connect them accordingly to the terminals.
5. Ground the machine firmly. Otherwise it may cause electric shock.
6. Connect the machine to your factory's power outlet.
7. There's possibility that you may connect the three live wires to machine in wrong direction. Please change either two of the three wires if needed. Motors rotating in wrong direction will not work. They have to rotate in the correct direction.



8. You should check the safety valve on the jacket once a month to see if it works normally(That the top golden stick can be pulled up and down easily indicates this valve is in good condition). If it doesn't work well, you should replace it with a new one or not install this valve.

### Operation

1. After you power the machine and turn on all breakers inside the control panel, you turn the key



on the control panel to power the machine. The power supply light



is on, and









the system starts. There is an emergency button, If you switch this button, the machine will stop immediately. Next time, when you start the machine: besides the power key, you also need to switch the emergency button.



2. Switch the light button to turn on the light for you to better view the inside of the tank.

3. Press the green button in product temperature controller to pre-set the temperature of product inside the main tank you want. Press to move the cursor. Press to increase the temperature value and press to decrease the temperature value. After you finish the setting of temperature, press again to save it.







4. Press the green button  in jacket temperature controller  to pre-set the temperature of heating medium inside water jacket you want. Press  to move the cursor. Press  to increase the temperature value and press  to decrease the temperature value. After you finish the setting of temperature, press  again to save it.

5. Before you start the electric heaters, please make sure the jacket is filled with water. If there's no water inside, the heaters will easily burn.

6. Turn on the switch  for heating. The green "heating on" light will be on. When the temperature reaches your preset temperature in the temperature controller, the red "heating off" will be on and the heaters will automatically turn off.

7. When the heaters are working, it's hot around it. So please don't touch it in case of burn.

8. Press the green button  in mixer inverter's control panel , turn the knob clockwise to increase the speed and counter clockwise to decrease the speed.

9. Press the green button  in homogenizer inverter's control panel , turn the knob clockwise to increase the speed and counter clockwise to decrease the speed.

10. Operation of vacuum pump



10.1 You fill the water tank beside vacuum pump with water. And make sure there is no air in that pipe. If there is air in it, water can't get through the pipe, and you have to add water manually. If there is not enough water in the pipe, please add water to the water tank.



Press the green button in pressure inverter's control panel to start vacuum pump. Press vacuum



pump stop button to stop the vacuum pump. -0.05Mpa to -0.08Mpa is good for vacuum. When the vacuum goes to the extreme, the pump will make some harsh noise. You should stop it immediately for protection.

**Notice:** Suggested maximum vacuum capacity is -0.08Mpa.

10.2 The first time you run vacuum pump, please remember to check the vacuum pump to see whether its blades are rusted or not. The method is to remove the motor fan cover and spin the fan to see if it can be rotated freely. If not, which means the blades inside the pump are rusted. Use a monkey spanner to rotate it until the shaft moves freely.

10.3 After that, you inching start (start the pump for several seconds and then stop it) the vacuum pump to make sure the motor rotates in the correct direction and there is no harsh noise. If there's harsh noise, stop the pump immediately. If there's no noise, please run the pump continuously.



10.4 Close all the valves on the lid of main tank except for this valve which is connected to vacuum pump.



10.5 There's a baffle tank connected to the vacuum pump. Please empty it from the bottom valve after each batch to keep it clean. Also remember to clean the water tank frequently to keep the water

clean.

10.6 From back view, the motor fan should rotate clockwise.



11. If you want to use scraper to scrape the view glass clockwise so it won't damage the silicon rubber.

12. Operation of finished product discharge



12.1 Firstly you need to break the vacuum inside the tank. You can open the breather valve to release the vacuum.



12.2 After that, you turn on the discharge valve at the bottom of the vessel. After the transfer, you turn off the discharge valve manually.

12.3 If the product is thick, you can apply compressed air into the tank to help compress the product out. Firstly you turn on discharge valve, then turn on spare valve to let the air in.

13. We suggest that you clean the tank several times before the production because of extra grease etc applied during assembly. You can clean the tank and learn to drive the machine at the same time.