

Moist Heat Pack

HEATING UNIT

User Manual



NGL-LJSS-2

Introduction

Before you use the moist heat pack heating unit (hereinafter referred to as the "Heating unit" or the "Unit"), please read this Manual carefully and use the unit correctly in accordance with this operating procedure.

Unit parameters:

1. Power Supply: AC220V 50/60Hz
2. Power: 1000W
3. Temperature preset at: 70-80°C
4. Boundary dimension (mm) : 520×390×850 mm
5. Tank size (mm) : 410×282×422 mm
6. Standard water usage : 42L
7. Maximum water usage : 49L
8. Net weight: 25kg
9. Gross Weight: 40kg

Notice:

The temperature of the unit has been preset to the optimum temperature of 70-80°C best for moist heat packs. Please wrap the moist heat pack with towel or matching towel cover after it is heated.

Statement:

Due to the upgrading of the product, the contents of this manual may be slightly different from your latest product. If you find any problem when you use the product in the future, please contact our company in time and we will serve you wholeheartedly.

In addition, due to the writer's limited abilities, there are inevitably imperfect contents in this Manual. Welcome to point them out.

I. Installation instructions

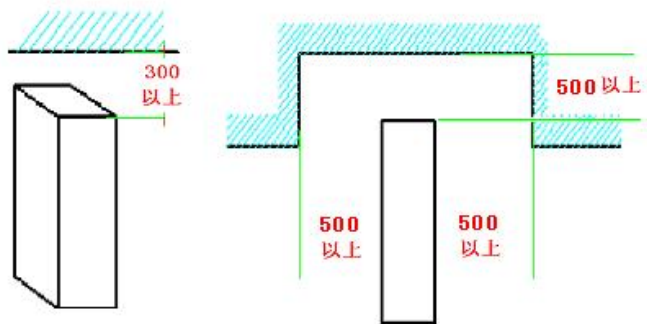
The unit should be installed in a laboratory with a good environment according to the following principle:

	Principles for the selection of installation sites
1	Well ventilated, dust-free and cool stable floor or experimental tables;
2	Avoid places with droplet and steam;
3	Avoid places where may flammable gas may flow inside, stop and leak;
4	Avoid places where high frequencies (High frequency welders) may occur;
5	Avoid places where acidic solutions are frequently used;
6	Avoid places where special sprayers (containing sulfides, etc.) are frequently used;

For the convenience and safety of maintenance and installation, you should leave the space between the indoor machine and the obstacles as far as possible. When indoor machines are installed, please be sure to ensure the following dimensions:

- 1) The distance between the top of the heating unit and obstacles on the top shall be more than 300mm;
- 2) The distance between the side of the heating unit and the obstacles on both sides should be at least 500mm;
- 3) The distance between the rear side of the heating unit and the obstacle should be at least 500mm;
- 4) The distance between the front of the heating unit and the obstacle should be at least 1000mm.

The following figure shows requirements for the installation space of the unit (unit: mm).



After you open the outer package, if you find anything missing, please contact our

sales service for solution. After you open the package, please lift the heating unit away from the wooden packing base and place it flat in a spacious position. Check whether the unit is damaged during transportation. After you confirm that it has no mistake, please push it flat to the installation position and ensure that it is stable. Then, please connect the power cord of the unit.

II. Detailed Operating Instructions:

HOW TO USE:

1. Installation of the unit: Lift the heating unit out of the wooden packing base after you open the package; place it flat in a spacious position; check whether the unit is damaged during transportation; after you confirm that it has no mistake, please push it flat to the installation position and ensure that it is stable.

(1) Please be sure to check whether the clamp or flange bolts of the external hose are tightened. After the liquid is added, please observe whether there is water leakage at the pipe joint. If there is water leakage, please deal with the problem in time.

(2) After it is well placed, please wipe the inner and outer surfaces of the container gently with a wet cloth to remove the protective oil and keep the container clean.

2. When you use the unit, please fix it on a fixed platform and open the valve of the water inlet. Then, inject clean water into the box (in order to shorten the heating time, warm water can also be added). After water is added, please close the water inlet valve.

3. Connect the power supply and turn on the switch; set constant temperature according to detailed operations of the thermostat (refer to the following instructions).

4. After the unit is heated and had constant temperature set, please dip the hot pack into water and hang it on columns at both ends of the separation frame.

5. When taking out the moist heat pack from the unit, please use the clamps configured by the unit. Do not do operations with bare hands so as to avoid being scalded.

Detailed operating instructions on the temperature controller: (1) Panel

Instruction:



①功能键	Functional Keys
②减键	Down
③增键	Up
④输出指示	Output Instructions
⑤上限报警指示 （选配）	Upper Limit Alarm Indicator (Optional)
⑥测量值	Measured Value
⑦设定值	Setting Value

(II) Operation and Usage Method



1. Power on: connect electric plug and press the red button at the rear of the Unit to turn on the Unit.

The digital panel will display with "version number", then turns to normal display after about 6 seconds.



2. **Temperature setting:** The temperature of the heating unit has been preset to 70℃-80℃ and no setting is needed when use. The below setting is for reference only.

Click  to enter temperature setting. The lower panel will start to blink to enter standby mode.

Then set the required temperature by pressing  and  buttons until the desired temperature has been set. Press the SET button again to exit the setting mode.



The updated setting will be saved automatically. Under this setting mode, if no key is pressed again in one minute, the controller will automatically return to the normal display state. Then temperature of the Unit will start to run to match with the preset temperature displayed on the upper panel.

III. Solutions to Common Problems

Note: To ensure your safety, please switch off the equipment and connections and also discharge any medium from the unit before checking or examining it.

Phenomenon: When you press the power button for the first boot-up, and if nothing is displayed.

The fuse in the power socket (if it has) might have been burnt. Remove the power cord and replace with a new fuse and restart the Unit again.

Timer and Temperature Setting:

These settings for the Unit are not recommended as the packs need consistent temperature to keep it at optimum condition in the Unit. If these have been non-purposely set, please follow the below to release it:

1. Press the set button for 3 seconds, then adjust the arrow button to set the temperature to 75 degrees.
2. Press the set button again for 3 seconds, the "ST" will appear on the upper panel, then press the arrow button to set the value from 1 to 0.
3. Press the set button again for 5 times, the "LCK" will appear on the upper panel, then press the arrow button to set the value to 2.
4. Press the set button to save the settings and exit.
5. End

Attention Please:



1. Please use deionized water or pure water to prevent foreign matters from blocking pipes and having scale so that the service life of the equipment can be extended. The water tank should be cleaned regularly and the circulating liquid in the tank should be replaced regularly to prevent microbial growth. If you do not use the unit, please cut off the power supply to clean the box and ensure that it is dry.
2. Please do not burn yourself when you use it. Please refer to the internal temperature displayed by the controller before you open the cover and please avoid being burned.
3. Do not move the box when you use it. Do not move the container when the water temperature is too high so as to prevent safety accidents.
4. When you use the unit, please do not let water or oil splash on the surface of the instrument, otherwise, the instrument will be damaged.
5. Do not use the instrument in places with flammable and explosive gas, corrosive gas or steam emissions, strong electromagnetic interference and strong impact vibration.