

Moist Heat Pack

HEATING UNIT

User Manual



NGL-LJM-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): 670×400×850
5. Tank size (mm): 560×305×440
6. Standard water usage amount: 55L
7. Maximum water usage amount: 75L
8. Net weight: 45kg
9. Gross Weight: 65kg

Notice:

The temperature of the unit has been preset at **70°C-80°C** to the best of moist heat packs condition. 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, please consult when you use it for the first time. 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 out them.

I. Installation instructions

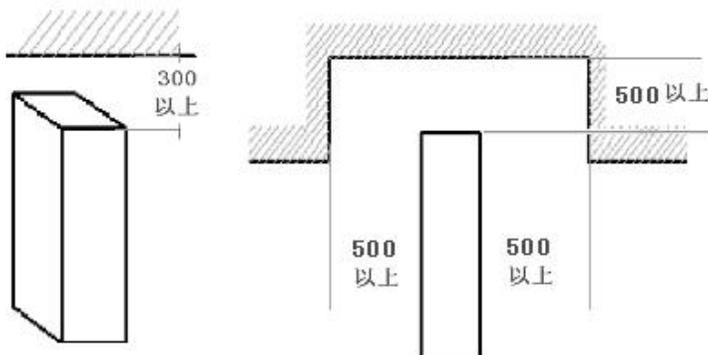
The unit should be installed in a laboratory with a good environment according to the following principle:

	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 have opened 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 has no damaging 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 for use.

II. Detailed Operating Instructions:

HOWTO 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 has no 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 has been added, please close the water inlet valve.

3. Connect power supply and press the **red button** at the back of the Unit to switch on Unit. Since temperature has been preset to the best of moist heat pack heating condition, therefore no setting is required.



4. After the unit has been heated and maintained constant temperature, 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 packs from the unit, please use the clamp. Do not operate with bare hands so as to avoid being scalded.

Operating Instructions of the Temperature Controller:(1) Panel

Instruction:



①功能键	Function 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	Value Set

(II) Operation and Usage Method

1. Power on: After connected with electric supply, press the **red power button** at the rear of the machine to switch on the Unit.

The digital panel will then display the "Version No.", it will then turn to normal display after about 6 seconds.



2. **Temperature setting: Temperature of the Heating Unit has been preset at 70 - 80 °C and no adjustment is needed, the below setting is for reference only.**

Press  to enter the temperature setting mode, the lower panel will then blink to enter the standby mode,

then set the required temperature by pressing  and  button until the desired temperature has been set. Then, click 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 in one minute, the controller will automatically return to the normal display state. Then temperature of the Unit will run to match with the preset temperature which will be displayed on the upper panel.

Timer and Temperature Settings: These settings for the Unit are not recommended or required 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



III. Solutions to Common Problems:

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

Phenomenon: When pressing the power button for the first boot-up and if nothing is displayed. The fuse in the power socket (if it has) may have been burnt, remove the power cord and replace it with a new fuse.

1. **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.