

Moist Heat Pack

HEATING UNIT

User Manual (Rev. 3)



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: 200-250VAC
2. Rated Frequency: 50Hz.
3. Power Consumption: 1000W
4. Rated Fuse: 13 Amp
5. Maximum Tank Capacity: 75L
6. Approximated Filled Weight: 110 Kg
7. Temperature Preset at: 71-80°C
8. Cut-Out Temperature: 90°C
9. Heat up Time to: 75°C - 6 Hours
10. Cool Down Time from: 75°C - 3 Hours
11. Product Dimension : 85.5 cm (H) X 66.5 cm (L) X 39.5 cm (W)
12. Export Packing Dimension: 97.5 cm (H) X 76.5 cm (L) X 44.5 cm (W)
13. Product Weight: 29.7Kg
14. Shipping Gross Weight: 48.6 Kg
15. Caster Wheels: 2 lock and 2 unlock

Notice:

The temperature of the unit has been preset at 71°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 properly heated when use.

Statement:

Due to the upgrading of the product, the contents of this Manual may be slightly different from your latest product, please consult when using 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 them out.

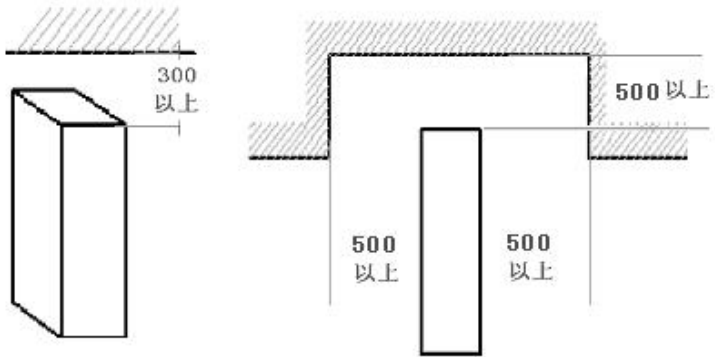
I. Installation instructions:

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 300 mm;
 - 2) The distance between the side of the heating unit and the obstacles on both sides should be at least 500 mm;
 - 3) The distance between the rear side of the heating unit and the obstacle should be at least 500 mm;
 - 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).



Refer to Point 1, higher than 300 mm Refer to Point 2, higher than 500 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:

- 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
- 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 be added. After water has been added, please close the water inlet valve and are ready to be operated.
- After connecting power, you will see the RED switch at the rear of the Unit lights up. When it is turned to "1" to turn on the Unit, the Controller Module in front of the Unit will light up. This means the Unit starts to operate. Since temperature of the Unit has been preset to the best of moist heat pack heating condition, therefore no more setting is required.
- After the unit has been heated steadily that constant temperature has been attained, please dip the hot pack into water and hang it on columns at both ends of the separation frame.
- When taking out of the hot packs from the unit, please use insulated clamps. Do not operate with bare hands so as to avoid being scalded.

Operating Instructions of the Temperature and Timer Controller:

(1) Panel Instruction:



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


(II) Operation and Usage Method



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

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



2. Temperature Setting: The temperature of the Unit has been well preset to 71 - 80 °C, no more setting is needed when use. The temperature and Timer setting of this Unit have been locked to attain the most efficient operation of the Unit. The below setting is just for reference only.

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

Set the required temperature by pressing  and  button until the desire 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 for about one minute, the controller will automatically return to the normal display state. Then temperature of the Unit will start to increase until matching with the preset temperature displayed on the upper panel.



Temperature and Timer Settings: The settings of the Unit are not recommended nor required as the Unit has been well set ex-factory. The packs need consistent temperature to keep it at optimum condition in the Unit. If these have been accidentally set, please follow the below instructions to reset it:

Temperature Setting: (Unlock and Lock Mode)

1. Press the set button for 3 seconds, then press the set button again for 5 times, you will see "LCK" appears on the upper panel, press the arrow button to set from the value "2" to "0" (Set to "0" is to unlock the Temperature setting).
2. Press the set button again for 3 seconds, adjust the arrow button to the temperature of 75 degrees (recommand).
3. Press the set button again for 5 times, you will see "LCK" appears on the upper panel, then press the arrow button to set the value to 2 (Setting to "2" is to lock it up).
4. Press the set button to save the settings and exit.
5. End.

Timer Setting: (Unlock and Lock Mode)

- 1.Press the set button for 3 seconds to enter the setting mode.
- 2.Press the set button again for 5 times, you will see the "LCK" appears on the upper panel. Then set it to "0" to release the locking mode. Press the set button once to return to normal state.
- 3.Press the set button again for 3 seconds, adjust the "ST" from "1" or a higher value to "0" to cancel the timer setting.
- 4.The Module will automatically be set after 3 seconds. This time the Timer for the Unit is not set and no audible alarm will be activated.
- 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 switch 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.



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.



The manufacturer reserves the right of changing or upgrading the design of the Heating Unit without prior notice.

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