

Heating Unit

User Manual – English Version
110VAC
Rev. 3



NGL-LJE-1-110V
Heating Unit

FOREWORD

This Manual contains general instructions for operation, precautionary instructions, and maintenance recommendations for the owners and operators of this NGL-LJE-1-110V Heating Unit. To obtain maximum life and efficiency of the Heating Unit, please read this Manual thoroughly and follow all instructions prior to operating the unit.

SAFETY PRECAUTIONS



CAUTION

- Read, understand, and practice precautionary and operating instructions. Know the limitations associated with the Heating Unit NGL-LJE-1-110V. Observe the cautionary and operational decals installed on the unit.
- DO NOT operate this unit in an environment where other devices are being used that intentionally radiate electromagnetic energy in an unshielded manner. Portable and mobile RF communications equipment can affect Medical Electrical Equipment.
- The Heating Unit generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. Harmful interference with other devices can be determined by turning the Heating Unit on and off.
- Try to collect the interference using one or more of following: reorient or relocate the receiving device, increase the separation between the equipment, connect the equipment to an outlet on a different circuit from which the other device(s) are connected and consult us for help.
- Do not use accessories other than those supplied with the Heating Unit or recommended by us. The safety of other products has not been established, and their use could result in injury to the patient.
- Never adjust the thermostat too high. The thermostat is sensitive, and slight adjustment will alter the temperature several degrees. The recommended operating temperature is 71°C-78°C (160F- 172F). The temperature of the water should be checked with a thermometer after every adjustment, before using the hot pack. Always allow sufficient time for the water temperature to stabilize.
- The Heating Unit should not be installed above a surface that is susceptible to casual water damage.
- Always keep the water level over the top of the Heating Pads to avoid burning or scorching of the packs.
- Never allow the Heating Pads to dry after use.
- Check the water level daily as it has a natural loss due to evaporating.
- Clean the tank periodically as described in the maintenance portion of this manual.

- Check the unit periodically for signs of leaking and contact service if leaks are noted.
- Always replace heating packs as soon as they show signs of wear.
- If the unit is left unattended for a period of time, unplug the unit, remove the packs, empty the water and clean the tank.
- Do not move the Heating Unit while filled with heated water. Tipping over could result in burns to the users or others.
- Always unplug the Heating Unit from power source before attempting to empty water from unit.
- Always destroy and replace the hot pack which are exposed to contamination: hazardous or cleaning materials, bodily fluids, mold, etc.
- This unit should be operated, transported and stored in temperature between -40 °C to +70 °C (-40F TO 158F) and no requirements for atmospheric pressure, with relative humidity ranging from 10%-100%.
- Treatment time should not exceed 30 minutes.
- DO NOT retrieve heating packs from tank or replace heating packs in tank with unprotected hand.
- Avoid direct contact with the mounting rack in the tank.
- Always wrap heating packs with a towel or terry cover before handling or applying to patients.
- Constantly monitor hot pack application to ensure that the skin is not becoming too hot.
- Damage to skin can occur from exposure to extreme heat or cold, note instructions for proper use.
- DO NOT apply over insensitive skin or in the presence of poor circulation.
- Never lie down or sit on top of the heating pads.
- DO NOT use heating packs directly over cuts, abrasions or wounds.
- Consult health care professionals before using heating packs on non-communicative individuals.
- Exercise extreme caution when using heating packs on non-communicative individuals.



WARNING AND CARES

- Grounding the Heating Unit NGL-LJE-1-110V. Make certain the unit is electrically grounded by plugging into a hospital grade electrical outlet with a ground terminal receptacle. Follow the National Electrical Code.
- Water temperature in the Heating Unit is approximately 75°C (167F), and water scalding temperature is approximately 49°C (120F).
- Care must be taken when operating the Heating Unit adjacent to or stacked with other equipment. Potential electromagnetic or other interference could occur with this or other equipment. Try to minimize this interference by not using other equipment in conjunction with it.
- The Heating Unit should be placed on a smooth, level surface. The surface should support up to the Filled Weight (weight of heating unit filled with water).
- Use only accessories that are specially designed for the Heating Unit.
- Periodically inspect unit for signs of damage and pitting during regular cleaning intervals, as described in maintenance portion of this manual.
- DO NOT apply hot pack directly to skin, use a terry cover or a towel for skin protection.
- Individuals with circulatory problems should consult with a physician before using this product.
- DO NOT sit or lie on the heat pack.
- DO NOT add chlorine additive to water.
- DO NOT allow Heating Packs to come in contact with hydrocarbons.

Detailed Operating Instructions: HOW TO USE:

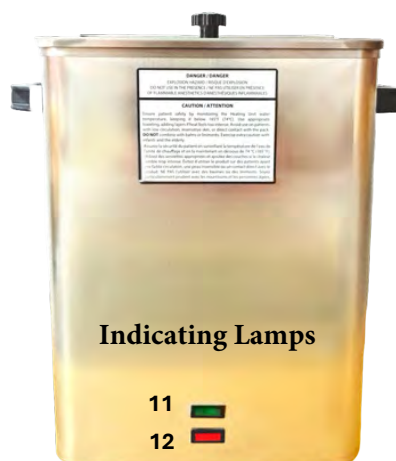
1. After it is well placed, please wipe the inner and outer surfaces of the container gently with a wet cloth to remove the protective oil and keep the container clean.
2. When you use the unit, please fix it on a fixed platform. Then, inject clean water into the unit below the maximum water level. (See below guideline for the maximum water level)
3. Connect power supply and monitor water inside the tank that starts to heat up.

Indicating Lamps

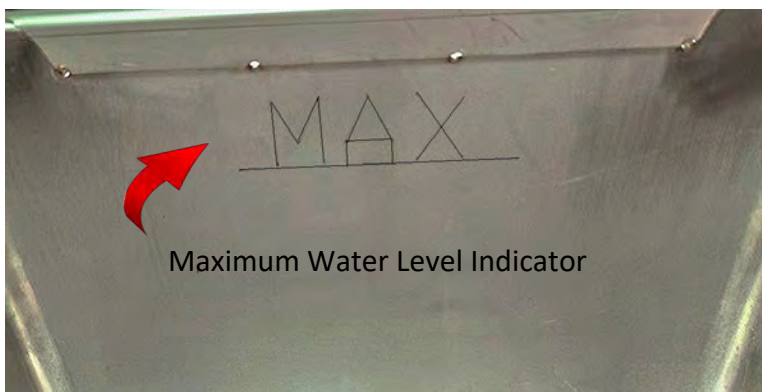
When connected in power, the green lamp will light up.

PILOT GREEN LAMP - When it illuminates, this indicates that the main power is connected, the switch is on, and the unit is operating. This lamp will be off when the red lamp illuminates, indicating that a fault is occurred.

PILOT RED LAMP - When illuminated, this warning of an overheat or low water condition or vibration is violent during transit. Action is necessary to correct the condition. At this stage, the Overtemp Lever (10) would have been bounced out. See below instructions for resetting the Overtemp Lever to activate the Unit again.



Maximum water level: If water level is too high, water may overflow and leak. The below water level indicator acts as a guideline for the maximum water level.



NOMENCLATURE

- | | |
|---|---------------------------------|
| 1. Lid | 7. Thermostat Intensity Control |
| 2. Lid Hinge Fastening Nuts | 8. On-off-On Toggle Switch |
| 3. Heating Element | 9. Power Cord Connector |
| 4. Overtemp Thermostat (Hidden, Beneath the Unit) | 10. Reset Overtemp Lever |
| 5. Thermostat, Hydraulic (Hidden, Beneath the Unit) | 11. Pilot Lamp, Green |
| 6. Heating Element Cover Bracket (Optional) | 12. Pilot Lamp, Red |

Temperature Setting: Temperature of the Heating Unit has been well preset to 71°C - 78°C (160F - 172F) to the best condition for moist heat pack, therefore no more setting is needed when use.

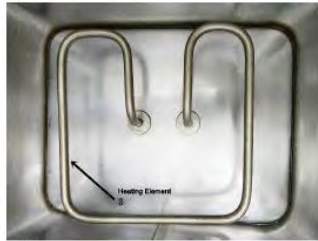
The temperature setting below is for reference.

Thermostat Intensity Control (7): Turn clockwise to heat it up and counterclockwise to cool it down. The highest temperature (clockwise) can be set at about 78C (172F), and lowest (counterclockwise) is set to cut off the heat of the Unit.



Reset Overtemp Lever (10): When temperature has been set too high or water level on the tank is too low or vibration is violent during transit or else, the machine will trigger a safety circuitry and will automatically power off. At this point, the Overtemp Lever (10) will be bounced out. When water in the tank has been replenished in a condition ready to run, the Lever (10) can be manually pushed back to the original inside position. This is to reset the Unit to activate it again. Afterwards, you can monitor the Unit that can normally operate with temperature starts to increase up to the preset temperature limit.



 Front View	Inside View (3) - Heating Element	
	Rear View - (8) - On-off-On Toggle Switch	

TECHNICAL SPECIFICATIONS

NGL-LJE-1-110V Model

1.	Power Supply	110 VAC
2.	Rated Frequency	60 Hz
3.	Power Consumption	1000 W
4.	Tank Capacity	15 L
5.	Approximated Filled Weight	24 Kg
6.	Temperature Range	71°C – 80°C (160F – 176F)
7.	Thermal Cut-out Temperature	85°C
8.	Heating Up Time to 71°C	2 Hours
9.	Cool Down Time From 71°C	1 Hour
10.	Dimensions	42 cm H x 38 cm L x 26.5 cm W
11.	Export Packing Dimension	44 cm H x 40 cm L x 29 cm W
12.	Product Weight	6.74 Kg
13.	Shipping Gross Weight	6.85 Kg
14.	Product Casing Material	Stainless Steel AISI 304
15.	Caster Wheel	NO

Effective heat proof foam insulation for the tank to prevent heat loss. In the meantime, preserve heat energy and consistence. This also reduces potential scalding risk.

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

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