

# Moist Heat Pack

## HEATING UNITS

---

### INTRODUCTION



**NGL-LJE-1**



**NGL-LJM-2**

## **FOREWORD**

This manual contains general instructions for operation, precautionary instructions, and maintenance recommendations for the owners and operators of the Heating Unit NGL-LJE-1 and NGL-LJM-2 Heating Units. In order to obtain maximum life and efficiency of the Heating Units, please read this manual thoroughly and follow all instructions prior to operating the unit

## SAFETY PRECAUTIONS



### CAUTION

- Read, understand, and practice the precautionary and operating instructions. Know the limitations associated with the Heating Unit NGL-LJE-1, NGL-LJM-2 Heating Units. 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 radiates 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 to 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 that 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 extremely sensitive and the slightest adjustment will alter the temperature several degrees. The recommended operating temperature is 71°C–74°C. The temperature of the water should be checked with a thermometer after every adjustment, before using the HotPac. 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 hot packs to avoid burning or scorching of the packs.
- Never allow the hot packs 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 Unit hot packs as soon as they show signs of wear.
- If the unit is to be 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 use factory authorized replacement parts.
- Always destroy and replace the hot packs which are exposed to contamination: hazardous

or cleaning materials, bodily fluids, mold, etc.

- This unit should be operated, transported and stored in temperature between  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  and no requirements for atmospheric pressure, with relative humidity ranging from 10%-100%.
- Treatment time should not exceed 30 minutes.
- DO NOT retrieve hot packs from tank or replace hot packs in tank with unprotected hand.
- Avoid direct contact with mounting rack in tank.
- Always wrap hot pack with towel or terry cover before handling or applying to patient.
- Constantly monitor hot pack application to ensure that the skin is not becoming too hot.
- Damage to skin can occur from exposure to extreme hot or cold. Note instructions for proper use.
- DO NOT apply over insensitive skin or in the presence of poor circulation.
- Never lay or sit on top of the hot pack.
- DO NOT use hot pack directly over cuts, abrasions or wounds.
- Consult health care professional before using hot packs on non-communicative individuals.
- Exercise extreme caution when using hot packs on non-communicative individuals.

## SAFETY PRECAUTIONS



# WARNING

- Grounding the Heating Unit NGL-LJE-1, NGL-LJM-2 Heating Units: 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.
- The water temperature in the Heating Unit is approximately 71 °C , and the water scalding temperature is approximately 49°C .
- Care must be taken when operating the Heating Unit adjacent to or stacked with other equipment. Potential electromagnetic or other interference could occur to 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) found in the Technical Specification of this manual.
- Use only accessories that are specially designed for the Heating Unit. Do not use accessories manufactured by other companies on 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 packs directly to skin.
- Individuals with circulatory problems should consult with a physician before using this product.
- DO NOT sit or lie on the hot pack.
- DO NOT add chlorine additive to water.
- DO NOT allow hot pack to come in contact with hydrocarbons.

## NOMENCLATURE

**GREEN LAMP**, when illuminated, indicates that main power is connected, the switch is on and unit is operating.

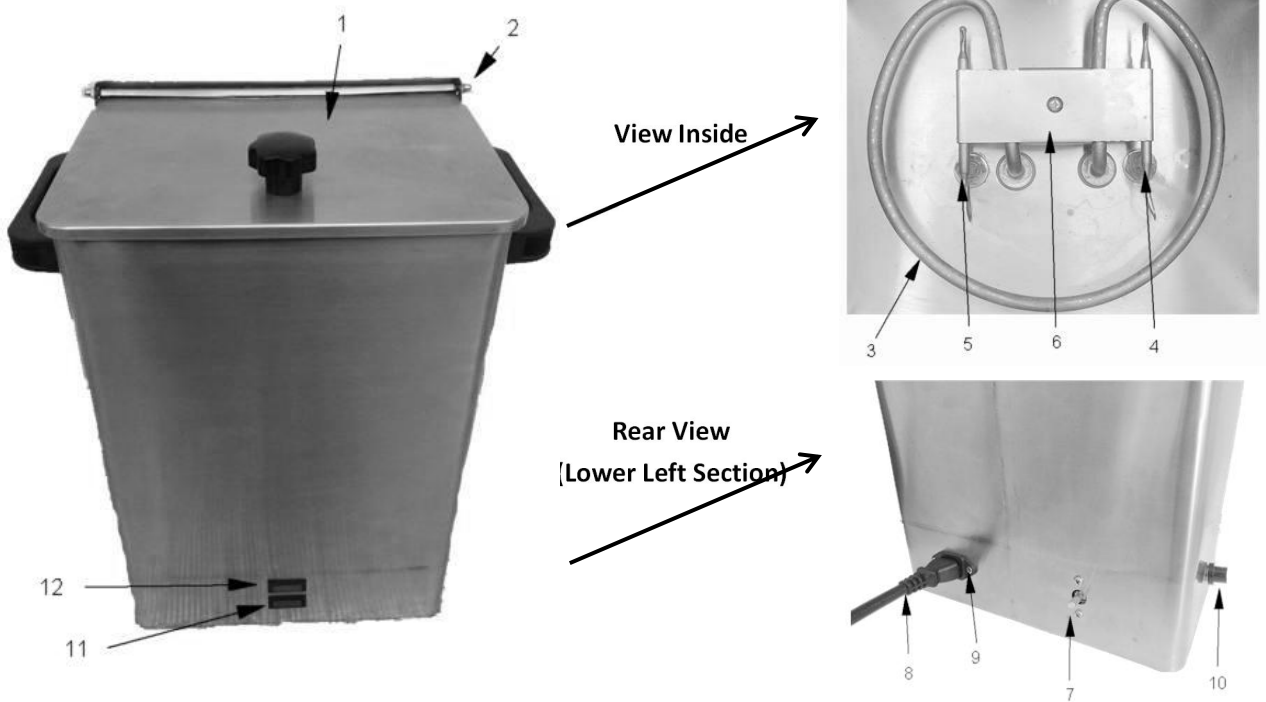
**RED LAMP**, when illuminated, warns of an overheat/low water condition. Action is necessary to correct the condition.



# NOMENCLATURE

## Diagram

1. Lid
2. Lid Hinge Nuts
3. Heating Element
4. Overtemp Thermostat
5. Thermostat, Hydraulic
6. Bracket
7. Thermostat Intensity Control
8. AC Mains Power Cord
9. IEC Connector
10. Reset Overtemp Button
11. Pilot Lamp, Red
12. Pilot Lamp, Green

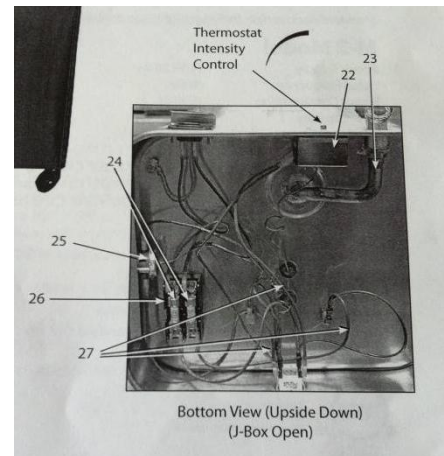
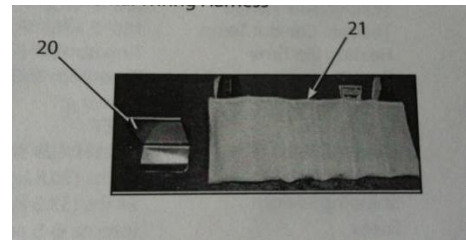


**NOTE: NGL-LJE-1 Model shown above**

# NOMENCLATURE

## Diagram

- 16. Lid Hinge Rod
- 17. Lid Knob/Handle
- 18. Side Handle
- 19. Caster (M-2 only)
- 20. Neck Pack Insert
- 21. Hot Pack
- 22. Thermostat, Hydraulic
- 23. Drain
- 24. Fuses
- 25. Overtemp Thermostat
- 26. Fuse Block
- 27. Internal Wiring Harness



**NOTE: NGL-LJM-2 Model shown above**



## TECHNICAL SPECIFICATIONS

### **NGL-LJE-1 Model**

Power Supply	AC 220 V
Rated Frequency	50 Hz
Power Consumption	1000 W
Tank Capacity	15.44 L
Filled Weight	25 Kg
Temperature Range	71°C–74°C
Thermal Cut-out Temperature	82°C–85°C
Heating Up Time	Time to 70°C - 2 Hours
Cool Down Time	Time From 70°C - 1 Hour
Safety Class	Type B
Dimensions	41 cm H x 33 cm L x 20 cm W
Product Weight	6.4 Kg
Shipping Weight	7.3 Kg
Fused	Internal, 15 amp

### **NGL-LJM-2 Model**

Power Supply	Ac 220 V
Rated Frequency	50 Hz
Power Consumption	1000 W
Tank Capacity	75 L
Filled Weight	110 Kg
Temperature Range	0°C–95°C
Heating Up Time	Time to 70°C - 6 Hours
Cool Down Time	Time From 70°C - 3 Hours
Safety Class	Type B
Dimensions	85 cm H x 67 cm L x 40 cm W
Inside operating dimension	44 cm H x 56 cm L x 30.5 cm
Product Weight	W 45 Kg
Shipping Weight	60Kg
Fused	Internal, 5 amp