

Moist Heat Pack - Heating Unit

Rev. 2

User Manual 110VAC



NGL-LJM-4-110VAC HEATING UNIT

FOREWORD

This Manual contains general instructions for operation, precautionary instructions, and maintenance recommendations for the owners and operators of PROHEATX 130 HEATING UNIT. 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 PROHEATX 130. 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 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 packs. 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 of hot packs as soon as they show signs of wear.
- If the unit is to be left unattended for a period, 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 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°C to $+70^{\circ}\text{C}$ (-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 hot packs from tank or replace hot packs in tank with unprotected hand. Use an insulating clamp to take out the packs from the Tank when in use.
- Avoid direct contact with mounting rack in tank.
- Always wrap hot pack with towel or custom designed terry cover before handling or applying to patient.
- Constantly monitor hot packs 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 packs.
- 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.

WARNING AND CARES



WARNING

- Grounding the Heating Unit PROHEATX 130 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 75°C (167F) , and the 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 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 the 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 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 packs to come in contact with hydrocarbons.

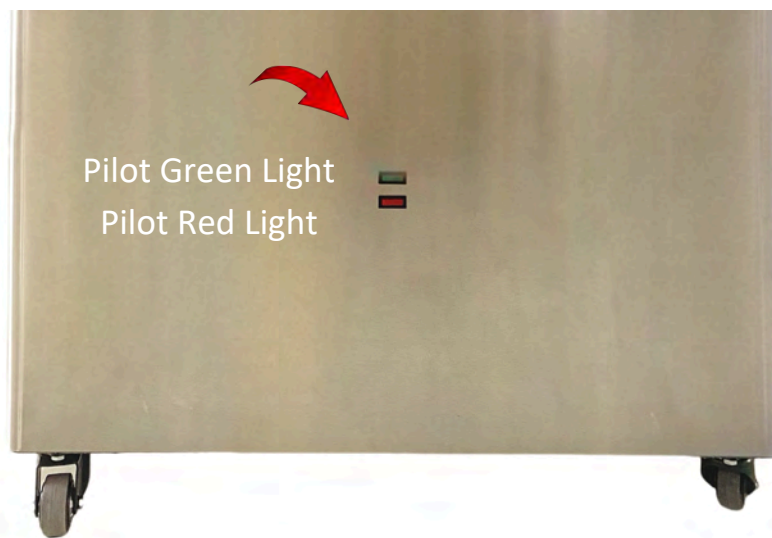
Indicating Lamps

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

PILOT GREEN LAMP - When it illuminates, this indicates that 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 it illuminates, this warns 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 would have been bounced out. See the below instruction for resetting the Overtemp Lever to activate the Unit again.

Unit Front - The Lamp Indicator



Temperature Setting:

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

The below setting is for reference only.

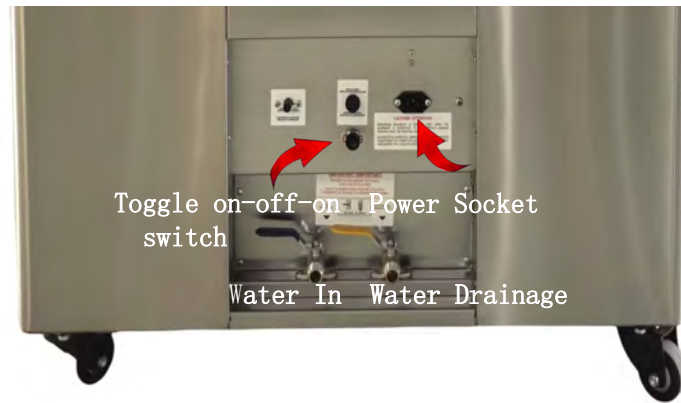
Thermostat Intensity Control: Turn clockwise to heat it up and counter clockwise to cool it down. Highest temperature (clockwise) can be set at 80C (176F) , and lowest temperature (counter clockwise) is set to cut-off the heat of the Unit and shut it down.



OverTemp Lever: When temperature has been set too high or water level 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 covered by the black protective cap (see picture in the right) will be bounced out. When water at the tank has been replenished in a condition ready to run, the Lever can be manually pushed back to the original inside position to reset the Unit and to activate it again. This is to reset the Unit to activate it again. Afterwards, you can monitor the Unit that can operate normally with temperature rise up until reaching the preset temperature limit .



Rear View of the Unit



PROHEATX 130 Heating Unit and Inside View

TECHNICAL SPECIFICATIONS

PROHEATX 130 HEATING UNIT

1	Power Supply	110VAC
2	Rated Frequency	60 Hz
3	Power Consumption	1500 W
4	Maximum Tank Capacity	130 L
5	Approximated Filled Weight	182 Kg
6	Temperature (Preset at)	71°C- 78°C (160F – 176F)
7	Thermal Cut-out Temperature	85°C
8	Heat Up Time to 75°C	Around 5 Hours
9	Cool Down Time from 75°C	Around 3 Hours
10	Product Dimension	88.5 cm H x 89.5 cm L x 49.5 cm W
11	Export Packing Dimension	97 cm H x 98 cm L x 54 cm W
12	Product Weight	41.5 Kg
13	Shipping Gross Weight	66.7 Kg
14	Casing Material	Stainless Steel 304
15	Caster Wheels (Mobile Unit)	4 casters (2 lock and 2 unlock)

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

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