Read the manual thoroughly. Improper installation, operation or maintenance can cause property damage, injury or death.

For your future reference.
Model # _____________________________
Serial # _____________________________

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### FOR YOUR SAFETY

Do not store or use gasoline or any other flammable liquids and vapours in the vicinity of this or any other appliance.

This appliance is not to be used by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

This appliance is not for use by children and they must be supervised not to play with it.

Post in a prominent location, instructions to be followed in the event the user smells gas. This information shall be obtained by consulting your local gas supplier.

Do not obstruct the flow of combustion and ventilation air.

Retain this manual for your reference.

---

### POUR VOTRE SÉCURITÉ

Ne pas entreposer ou utiliser d'essence ou d'autres liquides ou vapeurs inflammables à proximité de cet appareil ou de tout autre appareil.

Cet appareil ne doit pas être utilisé par des personnes dont les capacités physiques, sensorielles ou mentales sont réduites, ou des personnes dénuées d'expérience ou de connaissance, sauf si elles ont pu bénéficier, par l'intermédiaire d'une personne responsable de leur sécurité, d'une surveillance ou d'instructions préalables concernant l'utilisation de l'appareil.

Cet appareil n'est pas destiné à être utilisé par des enfants et ils doivent être surveillés pour s'assurer qu'ils ne jouent pas avec l'appareil.

Affichez à un endroit bien visible les instructions à suivre dans le cas où l'utilisateur sent une odeur de gaz. Ces informations seront obtenues auprès de votre fournisseur de gaz local.

Ne pas obstruer le flux d'air de combustion et de ventilation.

Conservez ce manuel pour votre référence.

---

### PARA SU SEGURIDAD

No guarde ni use gasolina o cualesquiera otros líquidos o vapores inflamables en las cercanías de éste o cualquier otro aparato.

Este aparato no debe ser utilizado por personas con capacidades físicas, sensoriales o mentales reducidas, o que no tengan la experiencia y los conocimientos adecuados, a menos que estas personas hayan recibido supervisión e instrucciones en cuanto al uso del aparato por la persona responsable de la seguridad de ellas.

Este aparato no debe ser usado por los niños y ellos deben ser supervisados para que no jueguen con el aparato.

No obstruya el flujo del aire combustión y de ventilación.

Guarde este manual para su referencia.
FOR YOUR SAFETY / POUR VOTRE SÉCURITÉ / PARA SU SEGURIDAD

Hazard warnings are for your safety. Absence of a warning does not mean the hazard is not present. Unforeseen actions may result in unanticipated hazards.

Les avertissements de danger sont pour votre sécurité. L’absence d’un avertissement ne signifie pas que le danger n’est pas présent. Les actions imprévues peuvent entraîner des dangers imprévus.

Las advertencias sobre los peligros son para su seguridad. La ausencia de una advertencia no significa que el peligro no está presente. Las acciones imprevistas podrían resultar en peligros no anticipados.

IMPORTANT / IMPORTANT / IMPORTANTE

Read the manual thoroughly. Improper installation, operation or maintenance can cause property damage, injury or death. / Lisez le manuel attentivement. Une mauvaise installation, utilisation ou maintenance peut causer des dommages matériels, des blessures ou la mort. / Lea detenidamente el manual. La instalación, la operación o el mantenimiento incorrectos pueden ocasionar daños a la propiedad, lesiones o la muerte.

Inspect unit daily for proper operation. / Inspectez l’unité tous les jours pour son bon fonctionnement. / Inspeccione diariamente el funcionamiento correcto de la unidad.

Do not fill kettle above recommended level marked on outside of kettle. / Ne remplissez pas la chaudière en excès du niveau recommandé marqué sur la chaudière. / No llene la marmita arriba del nivel recomendado marcado fuera de la marmita.

Floor may become slippery from product spillage. / Déversement de produit peut causer de plancher à être glissante. / Derrame de producto puede causar piso a ser resbaladizo.

Unit must be anchored as per manual. / Unité doit être ancrée selon les directives du manuel. / Unidad debe estar fijado según el manual.

CAUTION / ATTENTION / PRECAUCIÓN

Keep clear of pressure relief discharge. / Restez à l’écart de la soupape de sureté. / Permanezca alejado de la descarga de presión.

Keep hands away from moving parts and pinch points. / Gardez les mains loin des pièces mobiles et des points de pincement. / Mantenga las manos lejos de piezas movibles y puntos de presión muy localizada.

Surfaces and product may be hot! Wear protective equipment. / Les surfaces et le produit peuvent être chauds! Portez un équipement de protection. / ¡Las superficies y el producto pueden estar calientes! Utilice equipo protector.

Hot! / Chauds ! / ¡Caliente!

Do not climb, sit or stand on equipment. / Il ne faut pas monter, s’asseoir ni se tenir debout sur l’équipement. / No subirse, ni sentarse ni pararse sobre el equipo.

Stand clear of product discharge path when discharging hot product. / Écartez-vous du chemin de décharge d’un produit chaud. / Permanezca alejado de la ruta de descarga del producto al vaciar producto caliente.

Do not lean on or place objects on kettle lip. / Ne vous appuyez pas et ne placez pas d’objets sur le bec de la chaudière. / No se apoye o coloque objetos en el borde de la marmita.

SERVICING / ENTRETIEN / SERVICIO

Remove electrical power prior to servicing. / Coupez l’alimentation électrique avant l’entretien. / Desconecte la energía eléctrica antes de darle servicio.

Ensure kettle is at room temperature and pressure gauge is showing zero or less prior to removing any fittings. / Assurez-vous que la chaudière est à température ambiante et que le manomètre est à zéro ou moins avant de retirer des accessoires. / Asegúrese de que la marmita esté a temperatura ambiente y el manómetro esté mostrando cero o menos antes de retirar cualquier accesorio.

Have a qualified service technician maintain your equipment. / Demandez à un technicien en entretien et en réparation qualifié d’effectuer l’entretien de votre équipement. / Haga que un técnico de servicio calificado mantenga su equipo.
INSTALLATION

GENERAL
Installation of the kettle must be accomplished by qualified electrical installation personnel working to all applicable local and national codes. Improper installation of product could cause injury or damage.

This equipment is built to comply with applicable standards for manufacturers. Included among those approval agencies are: UL, NSF, ASME/Nli. Bd., CSA, CGA, ETL, and others. Many local codes exist, and it is the responsibility of the owner/installer to comply with these codes.

RECEIVING INSPECTION
Before unpacking visually inspect the unit for evidence of damage during shipping.

If damage is noticed, do not unpack the unit, follow Shipping Damage Instructions shown below.

SHIPPING DAMAGE INSTRUCTIONS
If shipping damage to the unit is discovered or suspected, observe the following guidelines in preparing a shipping damage claim.

1. Write down a description of the damage or the reason for suspecting damage as soon as it is discovered. This will help in filling out the claim forms later.
2. As soon as damage is discovered or suspected, notify the carrier that delivered the shipment.
3. Arrange for the carrier’s representative to examine the damage.
4. Fill out all carrier claims forms and have the examining carrier sign and date each form.

APPROXIMATE WEIGHTS

<table>
<thead>
<tr>
<th>Model #</th>
<th>Unit</th>
<th>Unit with shipping box</th>
</tr>
</thead>
<tbody>
<tr>
<td>KET3T</td>
<td>55 lbs.</td>
<td>95 lbs.</td>
</tr>
<tr>
<td>KET6T/GB</td>
<td>130 lbs.</td>
<td>170 lbs.</td>
</tr>
<tr>
<td>KET12T/GB</td>
<td>150 lbs.</td>
<td>190 lbs.</td>
</tr>
<tr>
<td>KET20T</td>
<td>220 lbs.</td>
<td>260 lbs.</td>
</tr>
<tr>
<td>TKET3T</td>
<td>95 lbs.</td>
<td>135 lbs.</td>
</tr>
<tr>
<td>TKET6T</td>
<td>186 lbs.</td>
<td>226 lbs.</td>
</tr>
<tr>
<td>TKET12T</td>
<td>275 lbs.</td>
<td>315 lbs.</td>
</tr>
</tbody>
</table>

UNCRA TING
Caution:
Straps under tension and will snap when cut.
Carton may contain staples and Skid contains Nails.
Use proper safety equipment and precautions.

Unit is heavy use adequate help or lifting equipment as needed.

1. Carefully cut any straps from container.
2. Lift off carton.
3. Inspect for hidden damage. If found refer to “SHIPPING DAMAGE INSTRUCTIONS”.

5. Remove 1X6 holding unit in place.
6. Remove manual from kettle pot. Write down the model # and serial# of the unit onto the front of this manual.
7. Lift kettle off skid and move kettle to its installation location.
8. Discard packaging material according to local and or state requirements.
**POSITIONING**

Units must be positioned on a firm, level stand that has been bolted in place, or existing counter top, and bolted in place. For mounting, these models are supplied with four threaded bushings welded to the underside of the base.

The first installation step is to refer to the Specification Sheets or Specification Drawings for detailed clearance requirements and mounting hole locations of the kettle. If you don’t have access to a specification sheet, check the bottom of the kettle for location of threaded mounting bushings.

**CLEARANCE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Back*</th>
<th>Left Side</th>
<th>Right Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>KET-3-T</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>KET-6-T</td>
<td>6&quot;</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>KET-12-T</td>
<td>6&quot;</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>KET-20-T</td>
<td>9&quot;</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TKET-3-T</td>
<td>7 1/8&quot;</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TKET-6-T</td>
<td>7 1/8&quot;</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TKET-12-T</td>
<td>9 7/8&quot;</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

* From back of mounting base.

**POUR PATHS**

<table>
<thead>
<tr>
<th>Kettle Size</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Gallon</td>
<td>15 1/2&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td>6 Gallon</td>
<td>17 1/4&quot;</td>
<td>36&quot;</td>
</tr>
<tr>
<td>12 Gallon</td>
<td>18&quot;</td>
<td>38&quot;</td>
</tr>
<tr>
<td>20 Gallon</td>
<td>22&quot;</td>
<td>45&quot;</td>
</tr>
</tbody>
</table>

**Countertop Models**

1. Drill mounting holes. If mounting to a Cleveland stand holes are already predrilled.
2. Position the unit in its permanent location.
3. Once positioned permanently secure the unit to the mounting surface with the hardware provided.
4. Seal around base of unit with silicone sealant.
5. Remove protective material covering stainless steel surfaces.

**KET-20-T Leg Type Models**

For floor type leg mount models position on a firm, level surface, level using adjustable feet and bolt two flanged feet in place. Once the kettle is secure, screw tilt handle into the threaded hole provided at the right of kettle.

**ELECTRICAL**

**ENSURE THE ELECTRICAL SUPPLY MATCHES THE KETTLE’S REQUIREMENTS AS STATED ON THE RATING LABEL.**

Install in accordance with local codes and/or the National Electric Code ANSI/NFPA No. 70 (USA) or the Canadian Electric Code CSA Standard C22.2 (Canada). A separate fused disconnect switch must be supplied and installed. The kettle must be electrically grounded by the installer.

**FAUCET SPOUT**

The kettle can be equipped with optional hot and/or cold water faucet, requiring 1/2” copper tubing as supply lines. Mount faucet bracket to the rear of the unit or studs provided. Assemble faucet onto bracket and check for leaks.

**WATER FOR JACKET**

The sealed jacket of the electric kettle is precharged with the correct amount of a water based formula, and therefore, no water connection is required to the kettle jacket.
INSTALLATION CHECKS

Although the kettle has been thoroughly tested before leaving the factory, the installer is responsible for ensuring the proper operation of kettle once installed.

Visual Checks
1. Check unit is bolted in place.
3. Check Tilting:
   A/ Handle is in place and firmly tightened.
   B/ Kettle tilts smoothly and freely.
4. Insure there are:
   A/ Four screws securely holding the console cover.
   B/ The bottom cover is in place and held with a nut.

Performance Checks
1. Supply power to the kettle by placing the fused disconnect switch to the "ON" position.
2. Before turning the kettle on, read the Vacuum/Pressure Gauge. The gauge’s needle should be in the green zone. If the needle is in the "VENT AIR" zone, follow Kettle Venting Instructions.
3. Turn the kettle's ON/OFF Switch/Solid State Temperature Control to "1" (Min.). The Heat Indicator Light (Green) should remain lit, indicating the element is on, until the set temperature is reached (130°F/54°C). Then the green light will cycle on and off, indicating the element is cycling on and off to maintain temperature.
4. Tilt the kettle forward. After a few seconds the Low Water Indicator Light (Red) should be lit when the kettle is in a tilted position. This light indicates that the element has automatically been shut off by the kettle's safety circuit. This is a normal condition when the kettle is in a tilted position.
5. Raise the kettle to the upright position. The Low Water Indicator Light (Red) should go out when the kettle is upright.
6. Turn the ON/OFF Switch/Solid State Temperature Control to “10” (Max.) and allow the kettle to preheat. The green light should remain on until the set temperature (260°F/127°C) is reached. Then the green light will cycle ON and OFF, indicating the element is cycling ON and OFF to maintain temperature. Fill the kettle with cold water to the steam jacket's welded seam. Refer to the Temperature Range Chart for the time required to bring the water to a boil.
7. When all testing is complete, empty the kettle and turn the ON/OFF Switch/Solid State Temperature Control to the “OFF” position.

CLEANING

After installation the kettle must be thoroughly cleaned and sanitized prior to cooking. See Cleaning Instructions.
# OPERATING INSTRUCTIONS

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Tilting Handle - Used for tilting the kettle.</td>
</tr>
<tr>
<td>2.</td>
<td>Vacuum/Pressure Gauge - Indicate steam pressure in PSI inside steam jacket as well as vacuum in inches of mercury.</td>
</tr>
<tr>
<td>3.</td>
<td>Pressure Relief Valve (not shown) - This valve is used to vent the kettle and in the unlikely event there is an excess steam build-up in the jacket, this valve opens automatically to relieve this pressure.</td>
</tr>
<tr>
<td>4.</td>
<td>On-Off Switch/Solid State Temperature Control - Turns kettle ON/OFF and allows the operator to adjust the kettle temperature in increments from 1 (Min.) to 10 (Max.). (see Temperature Range Chart in the Operating Instructions section).</td>
</tr>
<tr>
<td>5.</td>
<td>Heat Indicator Light (Green) - When lit, indicates that the kettle element is on. Cycles ON-OFF with element.</td>
</tr>
<tr>
<td>6.</td>
<td>Low Water Indicator Light (Red) - When lit, indicates that the kettle is low on water and will not operate in this condition. This will also light when the kettle is tilted.</td>
</tr>
<tr>
<td>7.</td>
<td>Marine Lock - Prevents unit from accidental tilting.</td>
</tr>
</tbody>
</table>
OPERATING THE KETTLE

1. Before turning kettle on, read the Vacuum/Pressure Gauge. The gauges needle should be in the green zone. Once heated, the kettle’s normal maximum operating pressure is approximately 10-12 psi, while cooking a water base product.

2. Ensure that the electrical service to the kettle is turned on at the fused disconnect switch.

3. Preheat the kettle by turning the ON/OFF Switch/Solid State Temperature Control to the desired temperature setting (see above “Temperature Range Chart”). The Heat Indicator Light (Green) will remain lit, indicating the burner is lit, until the temperature setting is reached. When the green light goes off, the heaters are off, and preheating is complete.

   NOTE: When cooking egg and milk products, the kettle should not be preheated, as products of this nature adhere to hot cooking surfaces. These types of food should be placed in the kettle before heating is begun.

4. Place food product into the kettle. The Heat Indicator Light (Green) will cycle on and off indicating the elements are cycling on and off to maintain the set temperature.

   NOTE: Do not fill kettle above recommended level marked on outside of kettle.

5. When cooking is completed place ON/OFF Switch/Solid State Temperature Control to the "OFF" position.

6. Pour the contents of the kettle into an appropriate container by tilting the kettle forward. Care should be taken to pour slowly enough to avoid splashing off the product.

   NOTE: As with cleaning food soil from any cookware, an important part of kettle cleaning is to prevent food from drying on. For this reason, cleaning should be completed immediately after cooked foods are removed.

### APPROXIMATE BOILING TIMES

<table>
<thead>
<tr>
<th>Kettle Capacity</th>
<th>Minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 gallon/11 litre</td>
<td>15</td>
</tr>
<tr>
<td>6 gallon/23 litre</td>
<td>20</td>
</tr>
<tr>
<td>12 gallon/45 litre</td>
<td>25</td>
</tr>
<tr>
<td>20 gallon/80 litre</td>
<td>40</td>
</tr>
</tbody>
</table>

The accompanying chart shows approximate times required for electric kettles of various capacities to boil water. The ON/OFF Switch/Solid State Temperature Control must be set at "10" (Max.) throughout the heatup period. Water will boil about 1/3 faster if the kettle is filled only to the outer steam jacket’s welded seam, resulting in a kettle filled to 2/3 capacity.

### MARINE LOCK

Your unit is equipped with a marine lock to prevent accidental tilting. The following procedure should be used to tilt the kettle.

1. Grasp the tilt handle.
2. Hold the latch down to unlock tilting mechanism.
3. Pull the handle to tilt kettle.
4. To lock, return the kettle to its upright position and push handle back.

   NOTE: Inspect lock daily to ensure it is free moving and does not bind or stick. Clean lock if necessary (see Cleaning Instructions for details)
CAR E AND CLEANING

Cooking equipment must be cleaned regularly to maintain its fast, efficient cooking performance and to ensure its continued safe, reliable operation. The best time to clean is shortly after each use (allow unit to cool to a safe temperature).

WARNINGS

Do not use detergents or cleansers that are chloride based or contain quaternary salt.

Do not use a metal bristle brush or scraper.

Steel wool should never be used for cleaning the stainless steel.

Unit should never be cleaned with a high pressure spray hose.

Do not leave water sitting in unit when not in use.

CLEANING INSTRUCTIONS

1. Turn unit off.
2. Remove drain screen (if applicable). Thoroughly wash and rinse the screen either in a sink or a dishwasher.
3. Prepare a warm water and mild detergent solution in the unit.
4. Remove food soil using a nylon brush.
5. Loosen food which is stuck by allowing it to soak at a low temperature setting.
6. Drain unit.
7. Rinse interior thoroughly.
8. Using mild soapy water and a damp sponge, wash the exterior, rinse, and dry.

NOTES

⇒ For more difficult cleaning applications one of the following can be used: alcohol, baking soda, vinegar, or a solution of ammonia in water.
⇒ Leave the cover off when the kettle is not in use.
⇒ For more detailed instructions refer to Stainless Steel Equipment Care and Cleaning (www.nafem.org/resources/stainlesssteelfinal.doc) on Nafem’s website (www.nafem.org).
PREVENTATIVE MAINTENANCE

FOR MAINTENANCE AND REPAIRS CONTACT YOUR AUTHORIZED MANITOUC SERVICE AGENCY AND HAVE A QUALIFIED SERVICE TECHNICIAN MAINTAIN YOUR EQUIPMENT.

Refer to maintenance procedurees and parts list manual for detailed maintenance and testing instructions.

DAILY PRE-STARTUP INSPECTION

1. Kettle tilts smoothly.
2. Pressure Gauge (E) is in the green when unit is cold.
3. Green Light (F) comes on when unit is energized.
4. Red Light (G) comes on when unit is tilted (tilting models only).

SIX MONTH SERVICE INSPECTION

1. Perform daily startup inspection.
2. Grease bearings on both trunnions.
3. Fasteners securing panels are in place and tight.
4. Perform pressure relief valve periodic test (see PRESSURE RELIEF VALVE TESTING).
5. Insure there are four screws firmly holding down the cover. If not replace screws and/or missing or worn nylon anchor nuts.
6. Check the bottom cover gasket is in place and not cracked.
7. Unit is bolted in place.

YEARLY SERVICE INSPECTION

1. Perform six month service inspection.
2. Check kettle maximum temperature setting (see CALIBRATING PROCEDURE).
3. Perform safety inspection using SAFETY INSPECTION CHECKLIST found in the MAINTENANCE PROCEDURES.