Electric Shock Hazard - High voltage exists within this equipment. There are no user serviceable parts in this equipment. All installation and service to this equipment should be performed by qualified licensed personnel.

Do not exceed 30 minutes in a steambath. Excessive exposure can be harmful to your health. Excessive exposure can produce a rapid pulse, light-headedness, weakness or fainting. If you become uncomfortable or experience any of the above conditions exit the steambath immediately.

Steambaths can put  stress on the body. Therefore a steambath should be used only under a doctor's direction if you:

• Are pregnant
• Have a heart condition
• Have high blood pressure
• Have circulatory problems
• Are under the influence of alcohol
• Are under the influence of drugs
• Have diabetes
• Are under the care of a physician
• Are in generally poor health

Children should only use the steambath under close adult supervision.

Scald Hazard: Do Not Touch the steam head or trim during operation as they are HOT. Stay at least 12 inches away from the hot steam escaping from the steam head.

Be careful when entering a steambath. Escaping steam from an overheated steam room may cause injury.

FOR THE SAFETY OF YOU AND YOUR FAMILY PLEASE READ THE WARNINGS TO THE RIGHT AND ALL INSTRUCTIONS BEFORE USING YOUR STEAMBATH.

POST "WARNING" LABEL OUTSIDE STEAMBATH FOR SAFETY WARNINGS. REQUIRED POSTING ON DOOR OF STEAM ROOM OR ADJACENT TO DOOR FOR ALL COMMERCIAL INSTALLATIONS.

SAVE THIS MANUAL

Thank you for purchasing your new WATERWORKS steam generator. If we can be of any assistance do not hesitate to call our Service Department at 1-800-927-2120 Ext.3.
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IMPORTANT SAFETY INSTRUCTIONS

1. READ AND FOLLOW ALL INSTRUCTIONS.

2. WARNING - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

3. WARNING - To reduce the risk of injury:
   a. The wet surfaces of steam enclosures may be slippery. Use care when entering or leaving.
   
   b. The steam head is hot. Do not touch the steam head and avoid the steam near the steam head.
   
   c. Prolonged use of the steam system can raise excessively the internal human body temperature and impair the body’s ability to regulate its internal temperature (hyperthermia). Limit your use of steam to 10 - 15 minutes until you are certain of your body’s reaction.
   
   d. Excessive temperatures have a high potential for causing fetal damage during the early months of pregnancy. Pregnant or possibly pregnant women should consult a physician regarding correct exposure.
   
   e. Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a steambath.
   
   f. Persons using medication should consult a physician before using a steambath since some medication may induce drowsiness while other medications may affect heart rate, blood pressure and circulation.

4. WARNING - Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 °F. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness and fainting. The effects of hyperthermia include:
   
   a. Failure to perceive heat
   
   b. Failure to recognize the need to exit the steambath
   
   c. Unawareness of impending risk
   
   d. Fetal damage in pregnant women
   
   e. Physical inability to exit the steambath and
   
   f. Unconsciousness

WARNING - The use of alcohol, drugs or medication can greatly increase the risk of hyperthermia.

SAVE THESE INSTRUCTIONS
SECTION 1A: EXTERIOR CONTROL OVERVIEW

The exterior steam generator control features an adjustable time and temperature control with digital display. The actual room temperature and time remaining are alternately displayed every 5 seconds. The exterior control is to be mounted outside the steam room.

The temperature can be adjusted in one degree intervals from 100° to 125 °F (38° to 52°C) Fahrenheit with an initial default of 120°F (49°C). Once the set temperature is reached the "soft steam" feature automatically engages cutting steam production back to a single element to provide softer billowing steam during more of the steam bath. If the steam room temperature drops more than 5°F (3°C) both elements will automatically engage.

SECTION 1B: INTERIOR CONTROL OVERVIEW

The interior steam generator control features the same control attributes as the exterior.

Programming adjustments/changes can be performed in the same manner described in Section 1A above. The interior control also features a built-in sensor and must be mounted inside the steam enclosure.

The built-in sensor supplies information on room temperature to the generator thus insuring a comfortable steam experience. Once the temperature is reached the "soft steam" feature automatically engages cutting steam production back to a single element to provide softer billowing steam during more of the steam bath. If the steam room temperature drops more than 5°F (3°C) both elements will automatically engage.

SECTION 2: OPERATION OF YOUR EXTERIOR AND INTERIOR CONTROL

1. Be sure the power circuit and water supply to the generator are on.
2. Press the ON/OFF button on the control until the temperature is displayed.
3. The generator should produce steam in 5 to 10 minutes and will turn off automatically in 60 minutes or less depending on the set time. The control will alternately display time remaining and the actual temperature at the sensor in your steam room every 5 seconds.
4. To change the time setting press and hold the TIME button on the control. Continuing to hold the button will cause the time to increase in 5 minute increments from the prior setting. At 60 minutes the time setting will scroll backwards to 5 minutes. To shut down the generator press the ON/OFF button.
5. To change the preset temperature setting press and hold the TEMP button on the control. While continuing to hold the button, the temperature display will increase in 1° increments from the prior setting to 125°F (52°C). At 125°F (52°C) the temperature setting will decrease in 1° increment to the lowest setting of 100°F (38°C).
6. The TIME and TEMP set points are remembered by the exterior and interior Primary control for your next bath unless power to the steam generator is lost.

SECTION 3: TAKING A STEAMBATH

1. Wait for the steam room to reach a comfortable temperature.
2. Remove clothing and jewelry.
3. Enter the steam room and close the door to prevent steam from escaping.
4. Relax and enjoy the warm steam releasing tense muscles and refreshing the entire body.
5. If your steam room has a shower a pleasant experience can be achieved by taking a warm shower with the steam.
6. After a steam bath a warm shower will give you a feeling of relaxation and is conducive to a good night's rest. A cold shower will refresh you and is a good way to start a busy day or prepare you for an evening out.

SECTION 4: MAINTENANCE OF YOUR STEAM GENERATOR

The steam generator, steam head, fittings and plumbing connections should be inspected regularly for water leaks and damage.

The Waterworks steam generator is equipped with an automatic drain valve system. The automatic drain valve system will flush the generator tank after each steam bath session following a 20-minute cool down period. This maintenance period of filling and flushing the generator shall last for a period of 3-5 minutes during which time no steam will emit from steam head(s).
SECTION 5: TROUBLE SHOOTING GUIDE

The troubleshooting guide is meant as a general aid only. There are no user serviceable parts in the generator. All repairs should be performed by a qualified service person. For additional assistance or the factory authorized service person nearest you call: WATERWORKS Service Department at 1-800-927-2120 Ext 3.

<table>
<thead>
<tr>
<th>SYMPTOMS</th>
<th>PROBABLE CAUSES</th>
<th>ACTION TO BE TAKEN</th>
</tr>
</thead>
</table>
| Control won't turn "ON" (Control light off). | Improper power supplied (no power), or Control improperly connected, or Control cable is faulty, or Contol is faulty. | 1. a. Make sure circuit breaker is "ON".  
   b. Using a voltmeter, check the voltage across the two fuses on the "PCA" printed circuit assembly. Voltage should be 208V to 240V.  
   c. Check fuses on the PCA. If fuse(s) are blown, replace with Buss# MDL 15/100 or equivalent fuse. If the fuse blows again - call WATERWORKS Service Department.  
2. Check control(s) installed per Section 6-5 in the INSTALLATION AND SERVICE INSTRUCTIONS.  
3. Replace control cable - call WATERWORKS Service Department.  
4. Replace the control - Call WATERWORKS Service Department. |
| Control "OFF", Unit still makes steam. | Generator is faulty. | 1. Turn off the circuit breaker.  
2. Call WATERWORKS Service Department. |
| Water runs out of steam head. | Generator is faulty. | 1. Turn off the circuit breaker.  
2. Turn off the water.  
3. Call WATERWORKS Service Department. |
| Steam room too hot or cold. | Temperature adjustment needs setting. | 1. See Section 3, "Temperature Adjustment".  
2. Call WATERWORKS Service Department. |
| Control "ON", exterior or interior Control displays "E001". | Temperature sensor not connected. | 1. Check that the sensor cable is connected to J4 on the PCA printed circuit assembly.  
2. Check the cable connection to the temperature sensor.  
3. Replace sensor and/or cable - call WATERWORKS Service Department. |
| Control "ON", exterior or interior Control displays "E002". | Temperature sensor or cable shorted. | 1. Check sensor cable for damage from nail/staple puncture.  
2. Check sensor cable ends for frayed/exposed wire strands.  
3. Replace sensor and/or cable - call WATERWORKS Service Department. |
| Control "ON", exterior or interior Control displays ">>>". | Steam bath temperature over 132 º. or Sensor/cable is faulty. | 1. If bath is too hot, shut off circuit breaker and call WATERWORKS Service Department.  
2. Treat as "E002" fault above. |
| Control won't turn "OFF". (Control light on). | Control is faulty. | 1. Replace the control - call WATERWORKS Service Department. |
| Control "ON" (Control display lit), unit won't steam. (Time/ Temp properly displayed on Controls) | Unit has not filled completely, or Generator is faulty. | 1. Wait at least 10 minutes after turning on the control.  
2. Call WATERWORKS Service Department. |
| Unable to adjust Time or Temp settings with exterior or interior Control. | Control is faulty, or Generator is faulty. | 1. Replace control - call WATERWORKS Service Department.  
2. Replace PCA - call WATERWORKS Service Department. |
| Sudden increases in rate water sputters out of steam head. | Foaming contaminants in the water supply. | 1. Flush tank 3 times. See Section 4. |
Customer Supplied Wiring

COPPER TERMINAL BLOCK JUMPERS, FACTORY PROVIDED

LEDs
LD1 = VNR ON
LD2 = HEATING ON
LD3 = WATER ON
LD4 = EXT TIMER MODE
LD5 = BATH ON

DRAIN

SERVICE PINS JUMP FOR ON/OFF (MOMENTARY)

FROM INTERIOR AND EXTERIOR CONTROLS

NOT USED

TO SECONDARY STEAMERS FOR GANGED SYSTEMS

INPUT FROM ANOTHER AK STEAMER FOR GANGING

60 min/24 HR

°F/°C

SHOWN WIRED FOR WWSU08 AND WWSU11 STEAMERS, 240V 1 PHASE

SEE FIELD WIRING FOR WWSU15 240V 1 PHASE AND FOR ALL 3 PHASE

Customer Supplied Wiring

SHOWN WIRED FOR WWSU08 AND WWSU11 STEAMERS, 240V 1 PHASE

SEE FIELD WIRING FOR WWSU15 240V 1 PHASE AND FOR ALL 3 PHASE

Customer Supplied Wiring

L1 Customer Supplied
L2 (N) Customer Supplied

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3209-50-W 04/07/17
STEAMER FIELD WIRING

### WATTS

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<thead>
<tr>
<th>Model</th>
<th>208V</th>
<th>230/400V</th>
<th>240/415V</th>
</tr>
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<tbody>
<tr>
<td>WWSU08</td>
<td>6888</td>
<td>6888</td>
<td>7500</td>
</tr>
<tr>
<td>WWSU11</td>
<td>8262</td>
<td>10102</td>
<td>11000</td>
</tr>
<tr>
<td>WWSU15</td>
<td>10516</td>
<td>12858</td>
<td>14000</td>
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### AMPS 1 Phz

<table>
<thead>
<tr>
<th>Model</th>
<th>208V</th>
</tr>
</thead>
<tbody>
<tr>
<td>WWSU08</td>
<td>36</td>
</tr>
<tr>
<td>WWSU11</td>
<td>18 &amp; 36</td>
</tr>
<tr>
<td>WWSU15</td>
<td>24 &amp; 42</td>
</tr>
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</table>

See Note(2)

### AMPS 3 Phz

<table>
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<tr>
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<tbody>
<tr>
<td>WWSU08</td>
<td>21</td>
</tr>
<tr>
<td>WWSU11</td>
<td>31</td>
</tr>
<tr>
<td>WWSU15</td>
<td>38</td>
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</tbody>
</table>

Notes:
(1) Use only copper wire rated 75°C or better
(2) WWSU08 and WWSU15 single phase require two feed circuits.
Circuit 1 drives one element and the controls, and is the lower amperage circuit.
Circuit 2 drives two elements and is the higher amperage circuit.

### WATTS

<table>
<thead>
<tr>
<th>Model</th>
<th>208V</th>
<th>230V</th>
<th>240V</th>
</tr>
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<tbody>
<tr>
<td>WWSU08</td>
<td>16</td>
<td>18</td>
<td>10</td>
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<td>WWSU11</td>
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<td>26</td>
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<td>WWSU15</td>
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### AMPS 3 Phase (V~ 3N)

<table>
<thead>
<tr>
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<th>208V</th>
<th>240V</th>
<th>400V~N3</th>
<th>415V~N3</th>
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<tbody>
<tr>
<td>WWSU08</td>
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<td>18</td>
<td>10</td>
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<td>WWSU11</td>
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<td>WWSU15</td>
<td>29</td>
<td>34</td>
<td>19</td>
<td>20</td>
</tr>
</tbody>
</table>

Notes:
(1) Use only copper wire rated 75°C or better
(2) WWSU15 single phase requires two feed circuits.
Circuit 1 drives one element and the controls, and is the lower amp circuit.
Circuit 2 drives two elements and is the higher amp circuit.