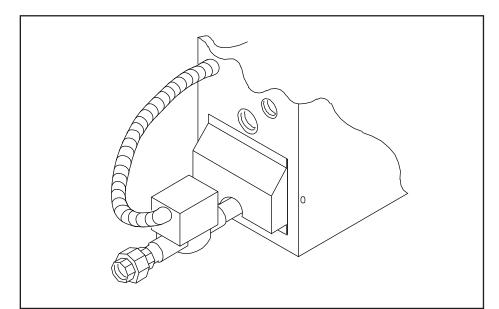
GMEREC ADT/X Installation and Service Instructions



AUTOMATIC DRAIN KIT MODEL ADT/X

SAVE THESE INSTRUCTIONS

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.

SECTION 1: GENERAL INFORMATION

The Steam Generator is listed by ETL. The ETL listing will remain valid so long as the ADT kit is installed per these instructions.

This ADT Kit upgrades a Generator to automatically flush and drain up to sixty (60) minutes after the last use. It will leave the tank empty after the flush and drain cycle. A second ADT kit is used for ganged generators.

SECTION 2: INSPECT EXISTING LOCATION

1. Count the total number of Generators at this site.

2. If there are two (2) or three (3) Generators this kit must be installed on all Generators.

3. If there is only one Generator proceed to Section 3A. If there are two (2) or three (3) Generators skip ahead to Section 3B.

SECTION 3: PLUMBING THE GENERATOR

All plumbing shall be installed by a licensed plumbing contractor and conform to local and national codes. (an air gap or check valve may be required)

MATERIAL (Locally available)

- 1/2 inch copper pipe for the AT (up to 10Kw) tank drain or 3/4 inch for AT12 & AT14 models and all 3T and AX models

- Fittings for drain as required

- Pipe thread compound or teflon tape

1. If the kit is being installed on an existing Generator, it will be necessary to remove enough drain plumbing to install the motorized drain valve. See Diagrams 1 & 2.

WARNING

Electrical grounding is required on all Steambath Generators.

Do not remove or change the Generator's grounding unless specifically directed to do so by these instructions.

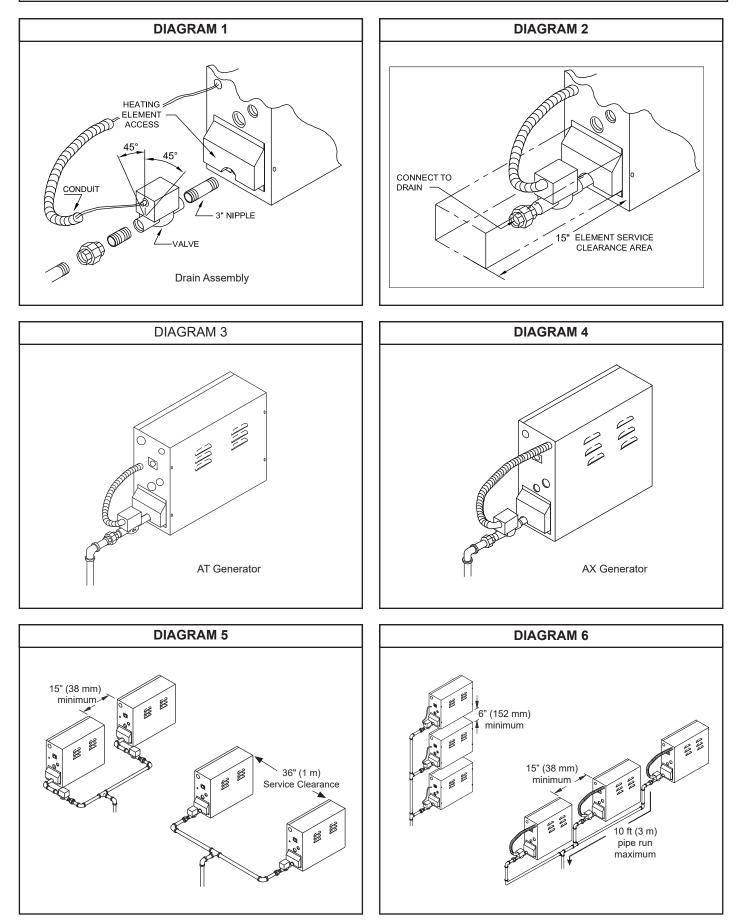
All electrical supplies to the Generator should be disconnected before and during the installation of this kit.

All wiring must be installed by a licensed electrical contractor in accordance with local and national codes.

All plumbing must be installed by a licensed plumber in accordance with local and national codes. (an air gap or check valve may be required)



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SECTION 3: PLUMBING THE GENERATOR (continued)

2. Each generator must have its own automatic drain!

IMPORTANT

If additional drain valves or automatic drain valve kits are required, call the Technical Support Department at 1-800-363-0251.

IMPORTANT

All Generator plumbing must be installed so that the valve motor may be removed to clear the element service clearance area shown in Diagram 2.

3. Install the 3" nipple to the tank. Attach the motorized drain valve to the nipple. The drain motor and valve should be upright and level (see Diagrams 7 & 8).

IMPORTANT

The ball valve does not have directional flow. Do not tilt over 45 degrees. See Diagram 1.

4 Run a 1/2" (or 3/4") copper drain line from the motorized drain valve outlet to a gravity flow drain. *Do not run the drain uphill.* The drain must be onnected in accordance with local and national codes.

5. For systems with more than one generator:

- •Drain lines may be interconnected after the autodrain valves.
- •Leave enough room between generators end-to-end or side-to-side for safe service access.
- •Local codes may require 36" (1 m) clearances to safely access electrical parts.
- •See Diagrams 3, 4, 5 & 6 for typical recommended installation methods.

IMPORTANT

Detailed drain connection information is in the Installation Instructions packed with the steam generators. The instructions must be used to assure proper drain operation.

IMPORTANT

All motorized drain valve outlets must be within six (6) feet and one (1) 90° bend of the site gravity drain. Use pipe thread compound or teflon tape on all threaded fittings.

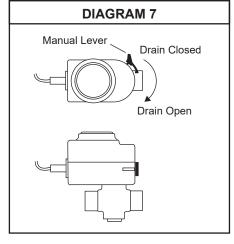
SECTION 4: MOUNTING THE DRAIN VALVE'S MOTOR

The drain valve is designed so its motor may be easily removed to facilitate installation and service. Before removing or installing the motor, make sure the lever (used to manually open the valve for service) is not latched open. (See Diagram 7)

To remove the motor, turn it carefully to the left until it stops then lift straight up to remove.

To reinstall the motor, carefully set the motor onto the valve's shaft, set the motor down onto its mounting posts, then turn the motor to the right until it locks. (See Diagram 8)

If the motor is not properly secured in place, the valve may leak or fail to open.

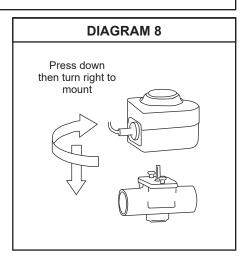


WARNING

All plumbing must be installed by a licensed plumber in accordance with local and national codes. (an air gap or check valve may be required by local codes)

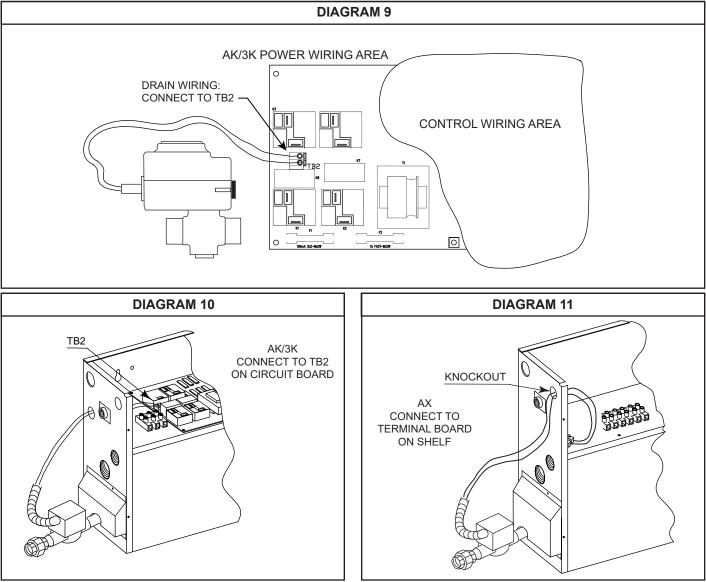
Do Not drain the tank into the steam room!

Boiling water may be discharged from the drain. Draining the tank into the Steam Room may present a scald hazard and/or damage materials used to construct the Steam Room.



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SECTION 5: WIRING	WARNING
 The safety of this equipment requires that power and control wiring be segregated into the areas shown in Diagram 9. 	All electrical supplies to the Generator should be discon- nected before and during instal-
 Route the drain valve wires through the conduit to a knock out near the steam outlet AT & 3T) or in the upper right corner (all models). See Diagrams 10 & 11. 	lation of this kit.
 Route the wires into the TB2 drain terminal block on the PCA (AT & 3T) or to the DRAIN terminal block on the shelf (AX). See Diagrams 10 & 11. 	User Shock Hazard! 208-240V wires attached to this Option
 For multiple Generator installations check for other motorized drain valves in the system and connect them in the same manner as step 3. 	must be routed per these in- structions.
5. AX steamers only: Make sure the configuration switch on the right hand circuit board is set correctly for the type of drain installed.	User Shock Hazard! If existing wiring is disturbed assure that the final installation conforms
For single steamers or the Primary steam in a multiple steamer system:	with generator wiring diagram.
For secondary steamer in a multiple steamer system:	Conduit must be used when
Note: AX Switch position 1 selects Primary or Secondary steamer, 2 is always down and 3 is always up. Use 4 down/5 up/6 down for manual drain or 4 up/5 down/6 up when Autodrain is installed. Use a pen tip or small screwdriver to push the switch position's small tab up or down to adjust the settings.	installing drain valve to connect the valve to ground.



SECTION 6: OPERATIONAL TEST

1. Assure power and water are on.

- 2. Turn on the Generator(s) using the owner's control. Allow the tank(s) to fill completely. Adjust the bath temperature to a point at least 10°F (6C) above the current steam room temperature to ensure the steamer begins heating the water.
- 3. Turn off the Generator(s) using the owner's control.
- 4. Sixty minutes (60) after the Generator is turned off, the drain will open and close a few times and water will be added to the generator as needed to cool the water and drain the tank; this could take up to 15 minutes. Once the drain cycle is complete, the tank will remain empty until the next bath.

The unit is now ready for operation.

SECTION 7: TROUBLESHOOTING GUIDE

There are no user serviceable parts in the Generator. All repair should be performed by a qualified service person. For additional assistance or the factory authorized service person nearest you call Technical Support at 1-800-363-0251. The Troubleshooting Guide below is meant as a general aid only. Follow ACTION TO BE TAKEN in order until the problem is resolved.

Drain Valve Leaks	Motor not secured to valve	Remount motor per Section 4
	or Valve part way open	Make sure the motor's manual lever is not latched open or stick- ing against an obstruction
	or	
	Debris in valve	Clean the valve
	or Faulty Circuit Board (PCA)	Disconnect the valve wires. If the leak stops, the PCA may be faulty. If leak continues, recheck the steps above.
Water does not run out of drain	Manual drain valve closed	Make sure any manual valves in the drain piping are open
	or Valve or drain piping plugged	Clean valve and piping
	or Faunlty drain valve or Faulty fuse/circuit breaker	Make sure the motor's manual lever can move freely and is moving when the valve should be opening. If it does not move, check wiring.
	or Faulty PCA	Call technical support.
Water runs our steam outlet during drain cycle	Faulty PCA	PCA or steamer faulty. Contact technical support.



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