



Notes:



Operation & Information



NO WAIT,
NO TANK,
NO COMPARISON!

CONGRATULATIONS ON YOUR SMART
ENERGY SAVING PURCHASE!



IMPORTANT



PLEASE READ ALL OF THIS IMPORTANT SAFETY INFORMATION IN THIS BOOKLET

This booklet contains important information & operating instructions for your Tankless electric water Heater. The example general information contained in this booklet is for guidance only. Please read it carefully, in its entirety and retain it for use later as well.

Tankless water heaters are safe and can be used with less risk than conventional water heaters. This is provided that they are installed, used and maintained in good working order, using common sense.

The unit installation must be carried out by qualified personnel and in the proper sequence, listed in this booklet. An example supply list is on the back cover. Care taken during the installation will provide a long trouble-free life for your Heater.

Please mail the included Warranty Card, to Activate the Limited Lifetime Warranty. This will also allow us to provide you with any additional useful information.

PLEASE FOLLOW ALL RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.

FAILURE TO FOLLOW PROPER PROCEDURE IS HAZARDOUS. IT CAN ALSO DAMAGE THE HEATER AND VOID THE LIMITED LIFETIME WARRANTY.

TURN OFF ELECTRICAL SUPPLY MAIN AND WATER SUPPLY BEFORE ATTEMPTING ANY INSTALLATION!

DO NOT TURN ON ELECTRIC OR WATER SUPPLY UNTIL INSTALLATION IS PROPERLY COMPLETED.

- **DO NOT** remove the Heater cover, open the unit or break the seal. This could cause **DEATH OR INJURY** and will **VOID THE WARRANTY**. (There are no user serviceable parts inside).
- **DO NOT** Install Heater, in a shower or anywhere it can be reached or adjusted by anyone while using water.
- **DO NOT** Operate the unit if water ceases to flow during use. Contact technical support for this or any other issue of concern, on the web at:

www.americanheat.info

or call: **305-556-5266 or (877) 235-4328**

- Although installation is simple, **DO** have a licensed Plumber & Electrician perform the installation.
- **COMPLY WITH LOCAL CODES AND PERMITTING!**

Example Supply List

For an ADK-1 (54 AMP 220/240V AC) model:

Plumbing Supplies:

All materials must be Code Compliant

1. **Copper Fittings** to adapt from 1/2" to 3/4" or the size necessary for the specific location pipes.
2. **Pressure only relief valve**, NOT PRESSURE & HEAT. Hardware stores sell a "Cash-Acme FWL-2" (75 PSI) relief valve that may be suitable for your pressure.
3. **Copper Relief valve drain pipe** (if not already in place).
4. **Two (2) on/off Ball valve's**.
5. **(Only for CPVC installations):** Approximately (2 pieces of 36" 1/2" Copper pipe & copper to CPVC adapters.
2. **A Clear Canister & Sediment filter** (Suggested but Optional).
3. Any other required item's.

Electrical Supplies:

All materials must be Code Compliant

1. **Double or Single Pole Breaker** of proper Amperage. (See Load requirement on Heater label).
2. **A Service Disconnect**, (60 AMP required on ADK-1 model). A Service Disconnect may be required on other models.
3. **Wire and Conduit** of the Proper size and length. Tip: For ADK-1 (#6 Gauge wire S.E.U. 668 Gray insulated coating wire, not black) may not require conduit. Normally only available at Electrical Supply Houses.
3. Any other required item's.

AMERICAN HEAT WARRANTY CENTER

11890 NW 87th Ct. Bay #7
Hiialeah Gardens, FL 33018

www.americanheat.info

email: us@americanheat.info

Telephone (305) 556-5266

**Toll Free: (877) ADK-HEAT
(235 - 4328)**

ELECTRICAL INFORMATION (con't from page 4)

Turn Heaters thermostat control knob clockwise to the two thirds on high position. Test water and adjust to desired comfort level. During winter the incoming water supply may be cooler than in summer. The Heaters thermostat control knob may be readjusted to compensate, up to its rated capacity.

Make sure that all electrical and plumbing connections are securely connected to prevent overheating.

Contact Customer service for customer support about any concern or if any of the following occurs:

If the unit experiences a distinct change in performance, the unit is or has been frozen or the Heater is to be operated at pressures above 75 PSI. Turn off power to Heater immediately, if water ceases to flow during use.

Switch off the Heater unit at the Service Disconnect and at Breaker's, when not in use for extended periods or upon any concern. This is for all electrical appliances and devices.

VERIFY ALL VOLTAGE & AMPERAGE INFO LISTED BELOW, WITH THE ACTUAL LABEL SPECIFICATIONS ON YOUR UNIT, FOR ANY CHANGES OR VARIATIONS.

ALL SPECIFICATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE WITHOUT NOTICE

MODEL	KW	VOLTS	AMPS	Baths Supplied	Flow Rate in Gallons Per	Rise in Water Temp. Full Cap.is lower Temp.
ADK-1	11.8KW	220V	54	up to 2½	up to 4. GPM	24° - 95°
ADK-2	8.5KW	220V	37	up to 1½	up to 3. GPM	25° - 87°
ADK-3	6.4KW	220V	30	1	up to 2. GPM	21° - 51°
ADK-4	3.2	110v	30	Sink	up to 1. GPM	16° - 24°

WIRE GAUGE AND BREAKER SIZE CAN VARY BASED ON A NUMBER OF FACTORS INCLUDING SUPPLIED VOLTAGE AND LENGTH OF CIRCUIT CHECK LOCAL REQUIREMENTS.

MODEL	WIRE	VOLTAGE & AMPERAGE	BREAKER SIZE
ADK-1	#6	2 – 60 amp 110V Hot + 1 Ground	60 amp Double Pole
ADK-2	#8	2 – 40 amp 110V Hot + 1 Ground	40 amp Double Pole
ADK-3	#10	2 – 30 amp 110V Hot + 1 Ground	30 amp Double Pole
ADK-4	#10	1 – 30 amp 110V Hot 1 Neutral +1 Ground	30 amp SINGLE Pole

WATER HEATERS SHOULD BE INSTALLED BY A LICENSED ELECTRICIAN AND PLUMBER TO MINIMIZE USER RISK.

INSTALLATION INFORMATION

USE ONLY THE PROPER GAUGE WIRING, BREAKER, SERVICE DISCONNECT & PRESSURE RELIEF VALVE TO PROTECT AGAINST FIRE, ELECTRICAL AND OTHER POSSIBLE HAZARDS.

Read all INSTRUCTIONS BEFORE PROCEEDING.

DO NOT TAKE RISKS with plumbing or electrical equipment.

TURN OFF THE MAIN ELECTRICAL AND WATER SUPPLY BEFORE beginning the installation.

HEATER PLACEMENT INFORMATION

1. Decide and plan the best placement for the heater after considering all factors: location of existing water pipes, electrical supply, convenience to adjust temperature, etc. The unit must be properly mounted in the vertical upright position, to a finished wall surface and not enclosed.
2. The Service Disconnect and electrical connections should be placed above or to one side of the heater. It is preferable that the heater **not be** located under the water supply. In the event of a water leak, this will minimize the possibility, that the water will not make a path to the Heater and electric connections.
3. Using the template diagram on the back of Heater, mark & drill three (3) 3/16" diameter holes where you plan to place the Heater. If you are drilling into drywall, use the anchors provided to secure the Heater to the wall. For other surfaces, place the metal screws directly into the wall. Secure the Heater to the wall using the 3 keyholes on the back of the Heater. The Heater must be installed in an upright vertical position.

PLUMBING INFORMATION

1. **Turn off Main Electrical Supply, water main & hot water supply before attempting the installation.** All plumbing should be completed before proceeding to electrical wiring connections.
2. Use ½" Copper Water Pipe for the Heaters' inlet & outlet lines. If you have ¾" or other size water pipe, reduce to ½" before entering the inlet and enlarge from the outlet. Use compression fittings to connect to Heater & do not over tighten.

Proceed to page 3



PLUMBING INFORMATION (con't from page 2)

3. NEVER CONNECT HEATER DIRECTLY TO ANY TYPE OF CPVC, PLASTIC, PVC OR WATER SUPPLY PIPE. If the location has PVC, CPVC, or other plastic pipe, always install 3/8" of copper pipe to inlet and from outlet of heater to insulate Heater from any plastic pipe. Make a "U" or "L" shape if necessary to equal 36" on inlet & outlet. **Not using copper pipe will VOID THE WARRANTY and damage the Heater.**
4. **DO NOT SOLDER NEAR HEATER INLET OR OUTLET (SOLDER ALL CONNECTION PIPES AWAY FROM THE UNIT AND SOLDER THE FINAL JOINT(S) AT LEAST 12" AWAY FROM THE HEATER.**
5. **NEVER USE PIPE INSULATION OR WRAP OF ANY KIND, ON HEATER INLET OR OUTLET PIPES.** Never use Pipe Dope or sealants. Use Teflon tape only if necessary, on heater inlet & outlet.
7. All water heaters require a water supply line shut off valve. A second second shut off valve on the outlet side will eliminate any back feed of cold water should Heater removal ever be necessary. Ball valves are recommended.
8. A "pressure only" (not heat & pressure) relief valve is required for proper installation. It should be installed on the inlet side between the heater inlet and the shut off valve. This is to relieve any water line excessive water pressure increase, or in the event of a Heater malfunction. It should be connected to the existing or a sufficient overflow drain pipe. Hardware stores sell an inexpensive "Cash-Acme FWL-2" (75 PSI) relief valve, that may be sufficient for your water pressure.
9. NOTE: An expansion tank, required by some recent code revisions for tank type water heaters, is not usually required for tankless water heater installations. Please check with your local codes to verify this.
10. It is recommended that a **Clear Canister & Sediment Filter** be installed on the inlet water supply side of the tankless water heater (between the Heater inlet and the water supply valve). This filter can reduce sediment and debris over a period of time from plugging the inlet fine mesh screen. This will also provide cleaner water for showers, washer, etc. These are available from your tankless dealer.
11. **Flush incoming supply pipe** after soldering & before connecting inlet to Heater. Avoid having debris such as excess flux or solder from plugging the visible water inlet screen. If it becomes restricted the Heater will not operate properly and the screen must be cleaned.
12. Complete all Plumbing connections and test for leaks. Operate a nearby hot water tap to remove air from water line to avoid a Heater dry start.

Proceed to electrical information on Page 4.

ELECTRICAL INFORMATION

The following example information is for guidance only:

Please verify all supplied information with your local Building Code Inspector before proceeding with any installation. Your requirements may differ from this supplied information.

WARNING! PLEASE READ ALL INFORMATION

The site locations' Main Electrical Supply must be adequate to supply the Heaters electrical load requirement and all other existing circuits.

If your Main Electric Service panel has a rating below the required load amperage for this Heater unit and the existing circuits and/or if there is no spare breaker space, then the installation will not be possible. It will require an upgraded Electric Service and a higher amperage Service Panel to service the location.

Before beginning any installation or attempting any Electrical connection make sure that the Main Electrical Supply Panel and any supply line Breaker(s) are switched to the off position. Be certain and **test to verify that there is no Electric current before attempting installation.**

The Electric supply line wire, Circuit Breaker and Service Disconnect (if required) must all be sufficient for the load Voltage and Amperage. Determine the **permissible circuit length** and verify the correct wire and breaker size. The Service Disconnect and electrical connections should be placed above or to one side of the heater.

The ADK-1 thru ADK-3 model units must be connected to a 220/240V AC supply, (The ADK-4 requires only 30 amp 110V AC). A specific electrical load rating, Voltage and Amperage requirement of each unit is indicated on its own Heater model label.

Make sure that all electrical and plumbing connections are connected securely to prevent overheating.

The Heater must be connected to its own independent, dedicated and PROPERLY GROUNDED electric circuit. Heater MUST NOT share any other circuit i.e. oven, clothes dryer, etc

The Heater must have a Service Disconnect that the electric pigtail, can be hard wired into. Models with an amperage of 40 amps or less, may not require a Service Disconnect. Check with your Code Inspector to verify what is required. The Heater unit must be hard wired, not a plug or socket outlet.

The electric heating elements operate at a constant rate at your chosen power setting. It is the rate of the water passing through the Heater unit which determines the water temperature at any given setting. The slower the flow, (less volume) the hotter the water becomes, the faster the flow (gallons per minute) equals cooler water.

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