

**Please read and follow the installation and operation instructions carefully, to ensure the long life and reliable operation of this appliance.**

## **CONTENTS**

<b>Important Safety Instructions</b>	<b>----- page 2</b>
<b>Electrical Diagram</b>	<b>----- page 3</b>
<b>Technical Data and Product Structure</b>	<b>-----page 4</b>
<b>Installation Guideline</b>	<b>-----page 5</b>
<b>Operation Instructions</b>	<b>-----page 9</b>
<b>Trouble-Shooting</b>	<b>-----page 9</b>
<b>Normal Maintenance</b>	<b>-----page 10</b>

### **CANADA**

**UV Corp  
Markham, Ontario  
1-866-833-2247**

### **USA**

**NPV group LLC  
Akron, Ohio  
1-800-561-6838**

## ■ Important Safety Instructions

1. The installation must be in compliance with [the National Electrical Code](#), and your local electrical and plumbing codes.
2. This appliance must be **GROUND**ED /**EARTH**ED. (If the model is equipped with plug, it is a electric leakage protection plug ).
3. Install or locate this water heater only in accordance with the provided installation instructions.
4. Use this water heater only for its intended use as described in this manual.
5. For models that come without a plug, please contact a qualified electrician to have unit properly installed.
6. This appliance is not intended for use by persons (including children) 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. Children should be supervised to ensure that they do not play with the appliance.
5. This appliance **MUST** be permanently connected to the fixed circuit breaker and it must be installed vertically (excluding the models which are equipped with plug). **DO NOT** install this appliance near to flammable materials or a strong magnetic field.
6. This appliance is **forbidden** to be switch on if you think it may be frozen, as this could result in serious damage to the unit. Wait until you are sure that it has completely thawed out before you switch it on.
7. Please feel the outlet hot water temperature with hand to make sure it is suitable for use before taking a shower to avoid getting scalded.
8. Before connecting pipes to the water heater hoses, it is extremely important to FLUSH the pipes to wash away all plumbing paste or residue in the pipes.
9. If there is damage to the wire, you must contact a qualified electrician to replace it with dedicated wire from authorized dealers or electrical supply store.
10. Check valve is required to be installed at the water inlet.
11. The water relief valve should be used periodically in order to remove calcium carbonate deposits.
12. The drain-pipe which is connected to the water relief valve should be installed continuous downward position and in a frost free environment.
13. The spray head must be descaled regularly.

**WARNING: Do not switch on if there is a possibility that the water in the heater is frozen.**

## ■ Product Features

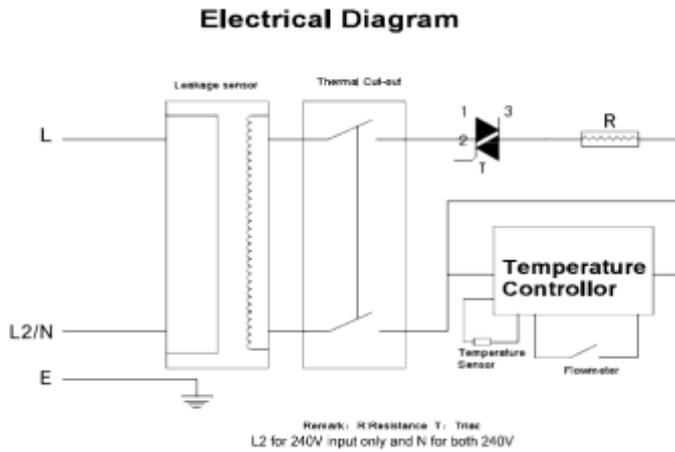
This Mini tankless electric water heater differs from a conventional storage type mini water heaters. It doesn't store hot water. Instead, water is heated instantaneously as it flows through the unit. The powerful heating elements are activated by a flow switch as water is drawn from a hot water faucet connected to the appliance. The advantage mini tankless water heater has greater energy efficiency than storage type water heaters as it only heats the water when you demand it. The units are incorporated with multi-safety devices and will continuously supply hot water as long as the faucet is open.

The Advantage mini tankless water heater has the following features.

1. Tankless, instantaneous heating for on demand hot water, No pre-heating. No stand-by heating loss. energy-saving.
2. High strength ABS splash proof casing, stainless steel heating element.
3. Compact appearance and unlimited supply of hot water.
4. Easy installation, heater can be installed above or under sink.
5. Easy operation, the heater provides hot water with constant temperature.
6. Micro-computer control, using patented heating technology. Water is completely separated from electricity by multi-layers of composite nano insulation material.
7. Over temperature protection: when the outlet water temp. reaches or over 60°C, the appliance will shut down, it will re-start automatically while temp. drops to operating temperature range.
8. There is a built-in pressure relief valve at the water outlet to prevent explosion.

## ■ Electrical Diagram

### ADV-KH series

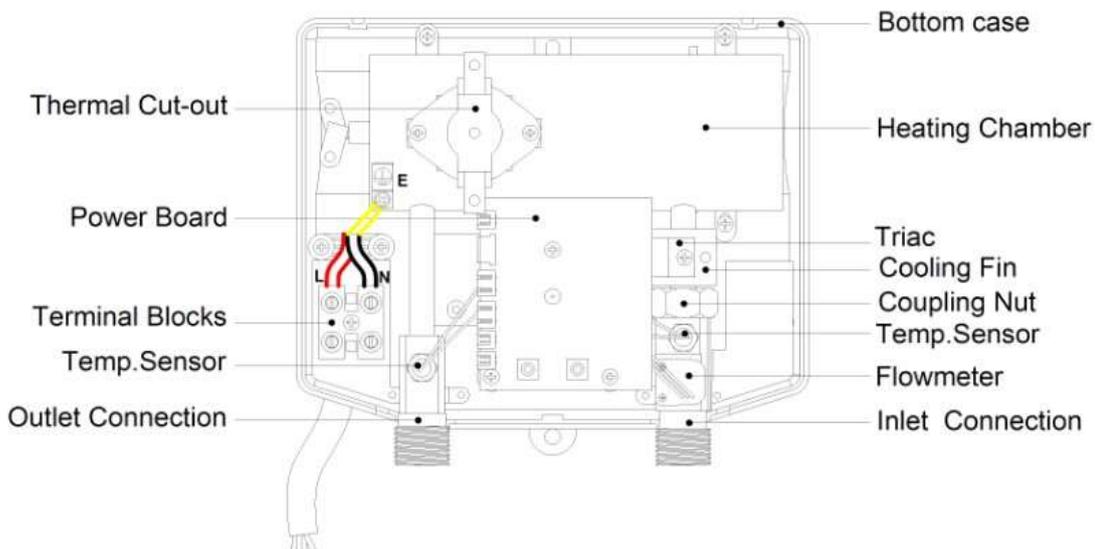


## ■ Technical Data

Model	ADV135KH	ADV65KH
Voltage	120V	240V
Wattage W	3500	6000
Rated Current A	29.2	25
Specification of Plug AWG	10	12
Min. required circuit breaker A	40	30
Min. water flow to activate unit L/min/GPM	1.8/0.48	
Weight kg	1.5	
Product Dimensions mm	198x160x98	
Water connections	1/2"	

Note: suitable recognized strain relief must be used when the product is installed.

## ■ Product Inner Structure



## ■ Installation Guideline

The installation must be in compliance with the National Electrical Code, your local electrical and plumbing codes.

1. Make sure the appliance is intact, and the fittings are complete.
2. Please make sure the main power supply, water pressure, grounding condition, amperage and wire meet the required codes before installation of appliance.
3. The appliance must be connected to properly grounded dedicated branch circuits of proper voltage rating. Ground must be brought to the "ground" at the circuit breaker panel.
4. This appliance **MUST** be permanently connected to the fixed circuit breaker. If you don't use the heater, please switch off the circuit breaker.
5. **DO NOT** install this appliance near to flammable materials or a strong magnetic field. The appliance can be installed above or under the sink, and unit must only be mounted in a VERTICAL position near by the water fittings. Please allow water to flow through the unit before turning power on.

## ■ Installation Method

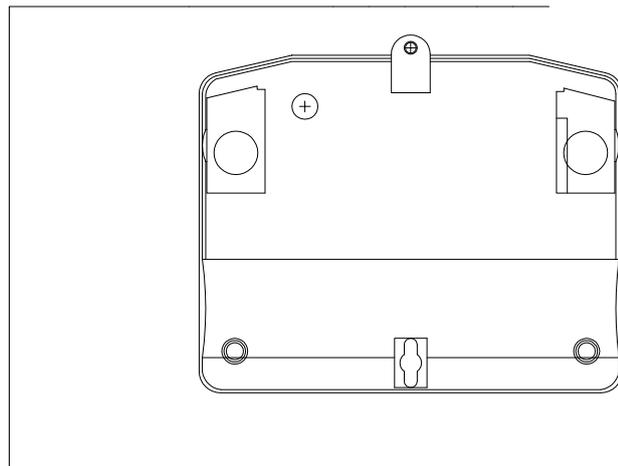
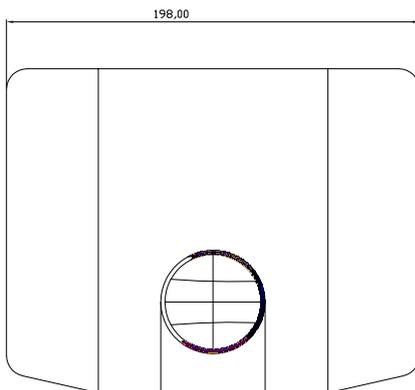
### ●General

The Advantage Mini tankless electric water heater can be used for hand washing, in washrooms or in the kitchen it can be installed above or under the sink.

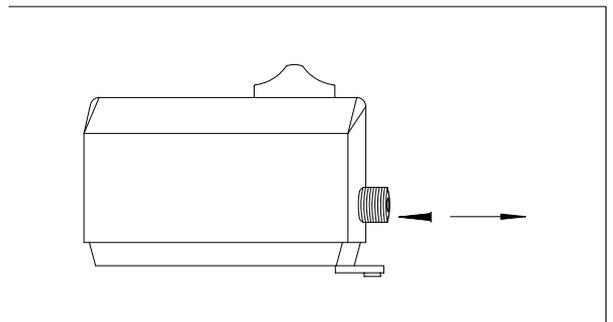
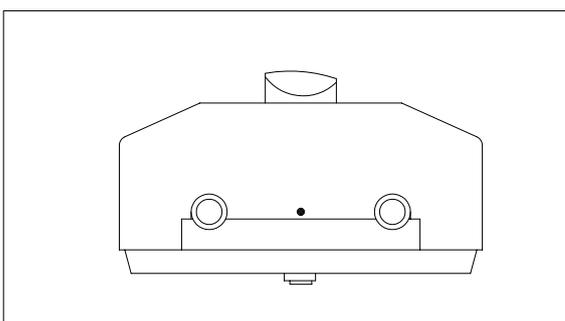
### ●Mounting the unit

Locate an appropriate place on a section of wall as above mentioned.

**Fig 1** → Front and back of the appliance



**Fig 2** → Undo the screw which holds the cover in place, please use hand to pull out the knob/the screen row line plug carefully before removing the front cover. Remove the front cover from the appliance

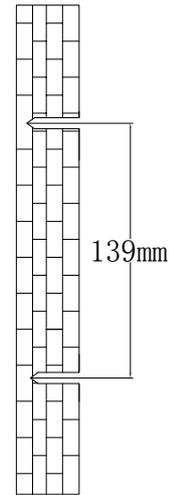


**Fig 4** → Drill two holes of 6.00mm diameter: if you install the heater upright above the sink, the distance between every two holes is 156mm; if you install the heater downward under the sink, the distance between every two

holes is 139mm. Put plastic anchor in the holes

**Fig4-A: Upward Installation**

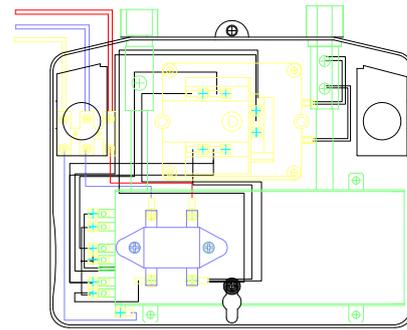
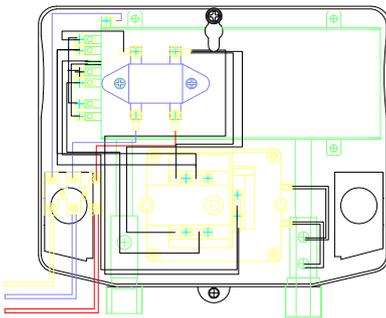
**Fig4-B: Downward Installation**



**Fig 5** → For Upright Installation, nail in the floor in the above hole (Fig5-A), fix the appliance on the wall with the above nail; For Downward Installation, nail in the floor in the below hole (Fig5-B), fix the appliance on the wall with the below nail.

**Fig5-A: Upward Installation**

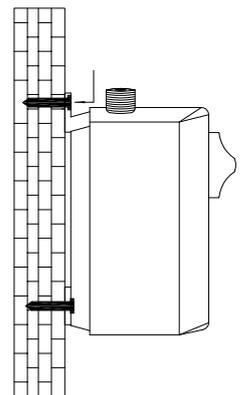
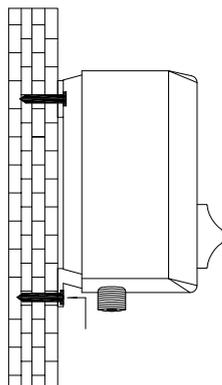
**Fig5-B: Downward Installation**



**Fig 5** → Then fix the appliance with nail in another hole, to make sure the whole appliance is installed on firm.

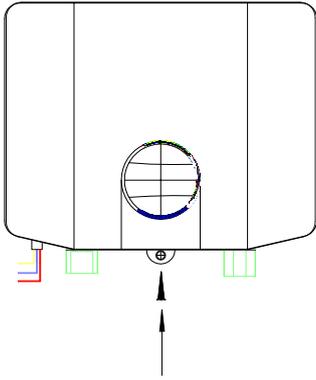
**Fig 5-A: Upward Installation**

**FIG 5-B: Downward Installation**



**Fig 6** → Please plug in the knob/screen row line plug. Then tighten the screws to affix the front cover.

**Fig 6-A: Upward Installation**



**FIG 6-B: Downward Installation**



- If the appliance is equipped with a cable or plug, it is no need to uninstall the case during the installation.

● **Water Connections**

1--- All water pipe must comply with national and applicable state and local water pipe codes.

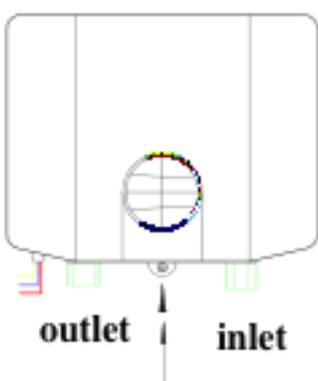
2--- The appliance can be installed right side up or upside down. It needs to be in a vertical position. Please connect the inlet connection (blue arrow points to) to the cold water inlet pipe; connect the outlet connection (red arrow points to) to the hot water outlet pipe .

3---The unit should be connected directly to the main water supply. Flush pipe with water to remove any debris or loose particles. Following pictures are for your reference.

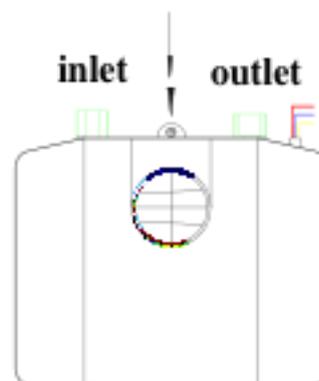
4, It is required that 1/2"NPT water connections be used to install the appliance. Please connect the inlet and outlet pipe in perspective. Following pictures are for your reference.

2, Please remember to install rubber seal rings at the connections. When all water connections are completed, check for leaks and take corrective action before proceeding.

**Fig 7-A: Upward Installation**



**FIG 7-B: Downward Installation**



## ●Electrical connection

1. All electrical work must comply with national and applicable state and local electrical codes
2. Before beginning any work on the electric installation, be sure that main breaker panel switch is OFF to avoid any danger of electric shock, all mounting and plumbing must be completed before proceeding with electrical hook-up.
3. All unit must be connected to a properly grounded dedicated branch circuit of proper voltage rating.
4. For units that come without a power cord, when feeding the cable to terminal blocks/Circuit Breaker, please make sure the metal wire ends and the terminal blocks to touch completely. Then tighten the screws up to make sure good contact is made.

## ■Operation Instructions

### ADV-KH Series (ADV135KH, ADV65KH)

- 1--- Turn on the circuit breaker to bring electrical power to the unit. The display in the appliance will display red.
- 2--- Turn on the water faucet for a few minutes until water flow is continuous and all air is purged from water pipes. The unit must be operated after the breakers are turned on. Do not let the unit operate without water when powered on.
- 3--- After the unit is supplied with power, please turn on the water and then the appliance will start work. The min water flow required to activate the unit is 1.8L/min.
- 4--- Turn off the water flow, the appliance will stop working. It is not necessary to turn off the heater by the knob switch every time.

5--- Press  to adjust the setting temperature, every time press the key,

the setting temperature will be up 1C/1F. When up to 55c/131F, it will begin from 30C/86F recycled after next press. The default temperature is 55°C/131F.

Press  continued 3 seconds, the setting temperature will be setup among 100F (38C) , 107F (42C) , 131F (55C) recycled.

6--- Press  to convert the temperature display between fahrenheit degree and degree celsius.

Press  continued 3 seconds to convert the temperature display ( numerals) between upside mounting and upside down mounting.

7--- There is overheat protection function for the appliance, if the outlet temperature reaches 60°C, the appliance will automatically decrease the power level, only after the hot water temp. drops to 55°C, the unit will start to work again. In this state, you should reduce the setting temperature.

8--- There is real-time leakage detection function, if there is a leak, the appliance will stop working automatically.

9--- There is a built-in pressure relief valve at the water outlet. When the pressure in the heating element is over 1.2Mpa, the pressure relief valve will open and relieve the pressure.

10--- Please check hot water with hand before you taking a operation to avoid scalding.

- If the unit is not being used in winter, drain out water completely so that the heater will not freeze.
- Please periodically clean inlet strainer and the outlet taps or shower head to keep water flowing freely.

## ■ Trouble-shooting

Problems	Possible Causes	Corrective Actions
1. Inlet and outlet fittings leaking	A. Fittings not tight B. Rubber washer worn-out	A. Tighten fittings. B. Change rubber washer.
2. LED no signal	A. Power not connected. B. LED damaged.	A. Connect power to the unit. B. Change LED.
3. Functional keys not working	A. No water out from shower. B. Water pressure too low. C. Key or PCB damaged.	A. Open valve to get water. B. Open valve to get pressure. C. Change key or PCB.
4. Water too hot	A. Too high temperature set. B. Water flow too small.	A. Set a lower temperature. B. Increase inlet water flow.
5. Water too cold	A. Low temperature set. B. Water flow too much.	A. Set a higher temperature. B. Reduce water flow.
6. Outlet water gets smaller and smaller.	Inlet strainer or shower clogged.	Clean strainer and shower.

## ■ Normal Maintenance

**Note: Do not attempt to repair this water heater yourself, call a service person for assistance. Always turn off all POWER to the unit at breaker panel before attempting to repair unit.**

**NO regular maintenance is required, However, to ensure consistent water flow, it is following maintenance recommended.**

- 1, Periodically remove scale and dirt that may build up at the aerator of the faucet or in the shower head.
- 2, There is a built in filter screen at inlet connection which should be cleaned from time to time. Please turn off the water flow before doing this.

## ■ Packing List

Item	Unit	Quantity
Electric Water Heater	Unit	1
bracket	Piece	1
Rubber plug and screw	Piece	1
Operation and Installation instructions	copy	1
Cable Clamp and Screw Sets	Set	1