AS132 SERIES

GAS WATER HEATER

USER MANUAL

⚠WARNING

FIRE OR EXPLOSION HAZARD

If you smell gas:

1. Do not attempt to light the appliance and make sure the appliance is in the OFF position.
2. Extinguish any nearby flame(s).
3. Shut off cylinder fuel supply valve if equipped, or disconnect the cylinder if equipment with a disposable fuel cylinder.
4. Leave the area immediately.
5. Allow gas to dissipate for 5 minutes.
6. If gas smell has dissipated from the area, the appliance, and fuel supply, follow steps 1-5 and have appliances serviced.

Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury or death.

⚠WARNING

Improper installation, use, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency, or gas supplier.

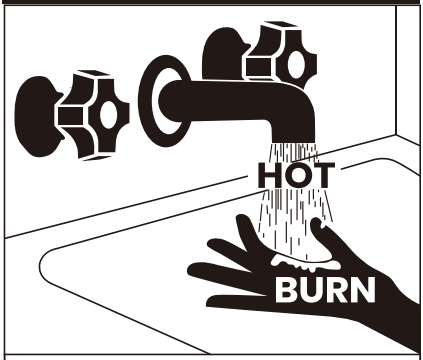
⚠WARNING

Keep this appliance away from all combustible material. Minimum clearances rear at 20 inches, two sides at 40 inches, top at 40 inches. Turn gas off at cylinder valve after use. Disconnect and remove cylinder before storing this appliance indoors.

⚠WARNING

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

⚠ DANGER



Water temperature over 125°F (52°C) can cause severe burns instantly or death from scalds.

Children, disabled and elderly are at highest risk of being scalded.

See user manual before setting temperature at the appliance.

Feel water before bathing or showering.

⚠ DANGER

CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed space can kill you.

Never use this appliance in an enclosed space such as a camper, tent, car or home.

Read this manual

Inside you will find many helpful hints on how to use and maintain the appliance properly. A little preventive care on your part can save you time and money over the life of the appliance.
You'll find many answers to common problems in the Troubleshooting Guide. If you review the chart of Troubleshooting Tips first you may not need to call for service.

Retain the manual for future reference.

The images contained in this manual are simplified representations of the appliance. The images may contain minor, unnoticeable differences compared to the appliance offered.

Read the safety information

To ensure your safety and the safety of others, we have included important safety warnings throughout this manual.

All safety messages will follow the safety alert symbol and the words: **"CAUTION"**, **"DANGER"**, **"WARNING"** or **"NOTICE"**.

These words mean:

⚠ CAUTION - A potentially hazardous situation that may result in minor or moderate injury.

⚠ DANGER - An imminently hazardous situation that will result in death or serious injury.

⚠ WARNING - A potentially hazardous situation that could result in death or serious injury and/or damage to property.

⚠ NOTICE - Attention is called to observe a specified procedure or maintain a specific condition.

Contents

Important Safety Information
Read All Instructions Before Using

Be sure to read and understand the entire user manual before attempting to install or operate this appliance. It may save you time and money. Pay particular attention to the Safety Instructions. Failure to follow these warnings could result in serious bodily injury or death. Should you have problems understanding the instructions in this manual, or have any questions, STOP, and get help from a qualified service technician, or the local gas utility.

⚠ DANGER!

PROPERLY INSTALL APPLIANCE

Failure to properly install the appliance outdoors as outlined in the Installation Instructions in this manual can result in unsafe operation of the appliance. To avoid the risk of fire, explosion, or asphyxiation from carbon monoxide, never operate this appliance unless it is installed properly and has an adequate air supply for proper operation. Be sure to inspect the flue terminal for proper installation at initial start-up, and at least annually thereafter. Refer to the "Care and Maintenance" section for more information regarding flue terminal inspection.

⚠ WARNING

Gasoline, as well as other flammable materials and liquids (adhesives, solvents, paint thinners, etc.), and the vapors they produce are extremely dangerous. DO NOT handle, use or store gasoline or other flammable or combustible materials near the appliance. Be sure to read and follow the labels on the appliance, as well as the warnings printed in this manual. Failure to do so can result in property damage, bodily injury or death.

⚠ DANGER

⚠ **Vapors from flammable liquids will explode and catch fire causing death or severe burns.**

Do not use or store flammable products such as gasoline, solvents or adhesives in the same room or area near the appliance.

Keep flammable products:
1. Far away from appliance
2. In approved containers
3. **Tightly closed**
4. Out of children's reach

The appliance has a main burner flame. The main burner flame

1. Can come on at any time and any where
2. Will ignite flammable vapors

Vapors:

1. Cannot be seen
2. Are heavier than air
3. Go a long way on the floor
4. Can be carried from other rooms to the main burner flame by air currents

Installation:
Do not install the appliance where flammable products will be stored or used unless the main burner flame Is at least 18" above the floor. This will reduce but not eliminate the risk of vapors being ignited by the main burner flame.

Read and follow the appliance warnings and instructions. Please kindly contact GASLAND if the use manual is missing.

⚠ DANGER!

LIQUEFIED PETROLEUM GAS MODELS

Propane gas has an odorant added to aid in detecting a gas leak. Some people may not physically be able to smell or recognize this odorant. If you are unsure or unfamiliar with the smell of propane gas, ask the gas supplier.

- Other conditions, such as “odorant fade”, which causes the odorant to diminish in intensity, can also hide or camouflage a gas leak. Always check with commercial leak detector or soapy water solution.
- Gas detectors are recommended in propane gas applications and their installation should be in accordance with the detector manufac turer's recommendations and/or local laws, rules, regulations or cus toms.

- To avoid possible equipment damage, personal injury or fire, do not connect the appliance to a fuel type not in accordance with the appliance parameter. This appliance is only for propane gas, not certified for any other fuel type.
- Propane appliances should not be installed in an unventilated place (for example, in a basement) if such installation is prohibited by federal, state and/or local laws, rules, regulations or customs.
- Propane gas must be used with great caution. It is heavier than air and will collect first in lower areas making it hard to detect at nose level.
- Before attempting to light the appliance, make sure to look and smell for gas leaks. Use a soapy water solution to check all gas fittings and connections. There is a gas leakage when foam blown out, generated and increasing. At this time, measures should be taken immediately to prevent continued gas leakage. When smelling to detect a gas leak, be sure to sniff near the floor.
- It is recommended that more than one method, such as soapy water solution, gas detectors, etc., be used to detect leaks in gas applications.

⚠ WARINING

CALIFORNIA PROPOSITION 65
This appliance contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

Gas leak testing

WARNING: Never use an open flame to test for gas leaks, as property damage, personal injury, or death could result.

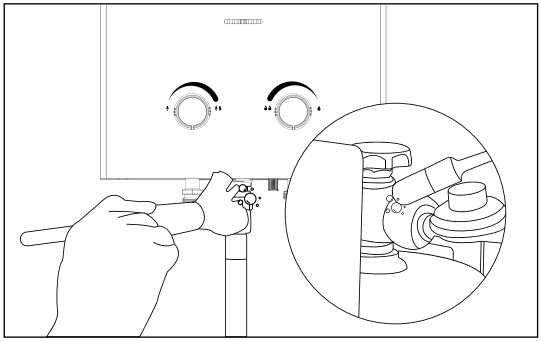
The appliance and its gas connections must be leak tested at normal operating pressures before it is placed in operation.

To avoid gas leakage caused by improper sealing of the appliance. **DO NOT TWINE TEFLON TAPE** between gas regulator and gas inlet pipe. Read the following directions before installation check for gas leaks at all times before operating.

- Turn on the gas to the appliance from the recommended gas cylinder.
- Use a commercial leak detector or soapy water solution to test for leaks at all connections and fittings.
- Soap or washing powder shall be mixed with water to produce test liquid with rich foam, and then applied to the gas inlet pipe, gas regulator joints or other places prone to gas leakage for observation. There is no gas leakage if the foam from the original test liquid disappears. There is a gas leakage when foam blown out, generated and increasing. At this time, measures should be taken immediately to prevent continued gas leakage.

WARNING: If a gas leak is present or suspected:

DO NOT attempt to repair it yourself.
DO NOT try to light the appliance.
DO NOT touch any electrical switch.



Note: Apply soapy water to the gas inlet pipe, gas regulator connector or other places prone to gas leaks and observe.

⚠ Additional warnings

1. Do not leave unattended.
2. The exhaust gas and top of the appliance are HOT! Do not place hands or any foreign object near the top of the appliance.
3. This appliance is only intended for use with non-potable water (such as a portable shower). Do not connect to potable water, health risk and/or consequences if it is used for heating water for human consumption.
4. This appliance is for point of use (dishwashing, washing, showering, etc), for temporary water heating and not for connection to a permanent inlet water connection or for a water distribution system to supply multiple outlets. Not suitable for drinking and cooking.
5. Do not use in high wind conditions.
6. Turn off the gas valve at the cylinder immediately if you detect gas smell. Do not use flame for leak detection.
7. Use only propane gas.
8. Use only outdoors.
9. The minimum environmental temperature for safe storage and operation of the appliance must be above 32°F, if not, may cause the appliance damage and danger.
10. ONLY USE IN OUTDOORS AREAS. CARBON MONOXIDE HAZARD-USING THIS APPLIANCE IN AN ENCLOSED SPACE WILL CAUSE DEATH, DO NOT USE IN CARAVANS, TENTS, MARINE CRAFT, CARS, MOBILE HOMES OR SIMILAR LOCATIONS.

Intended Purpose & Benefits of GASLAND

The appliance has standard 5/8"-18UNF NPT pipe fittings for using a standard garden hose for water supply.

Gas should be supplied with a max 20lb propane cylinder (not included). A CSA certified regulator and hose is included with the appliance.

A shower head with ON/OFF switch and multiple spray pattern is included.

Ignition is automatic and powered by 2 size D batteries (not included).

Burner will be ignited when water flows and will be shut off when water stops flowing. No pilot light!

Product Breakdown & Features

- Water controlled automatic ignition: Water pressure between 3.6-110 PSI opens the ignition circuit for easy and convenient operation.
- Auto cut-off protection: The auto cut-off protection will shut the gas supply off immediately in the event of flameout to reduce the risk of gas leakage.
- Overheating protection: The appliance will shut off automatically when water temperature is over 185°F(85°C).
- Removable drain plug helps remove residual water in the heat exchanger to avoid water pipe and regulator damage caused by freezing water.
- Anti-dry combustion protection: The appliance will shut off the gas supply in the event water stops flowing through the appliance.

Note: Read the maintenance section on draining the appliance entirely to avoid freeze related issues.

Outdoor recreational uses

In The Box

1. Check box for damage. Damages caused in shipment must be reported immediately.
2. Make sure you have all the parts as shown on the charts.

Please note: Included parts and accessories may vary depending on country and regulations.


Gas water heater

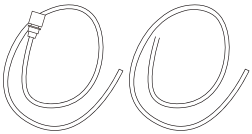

5 feet gas regulator


5 feet ON/OFF switch shower kit


11.5 feet ON/OFF switch shower kit


Hardware pack


12V 1.2 GPM water pump


6.6 feet water hose kit

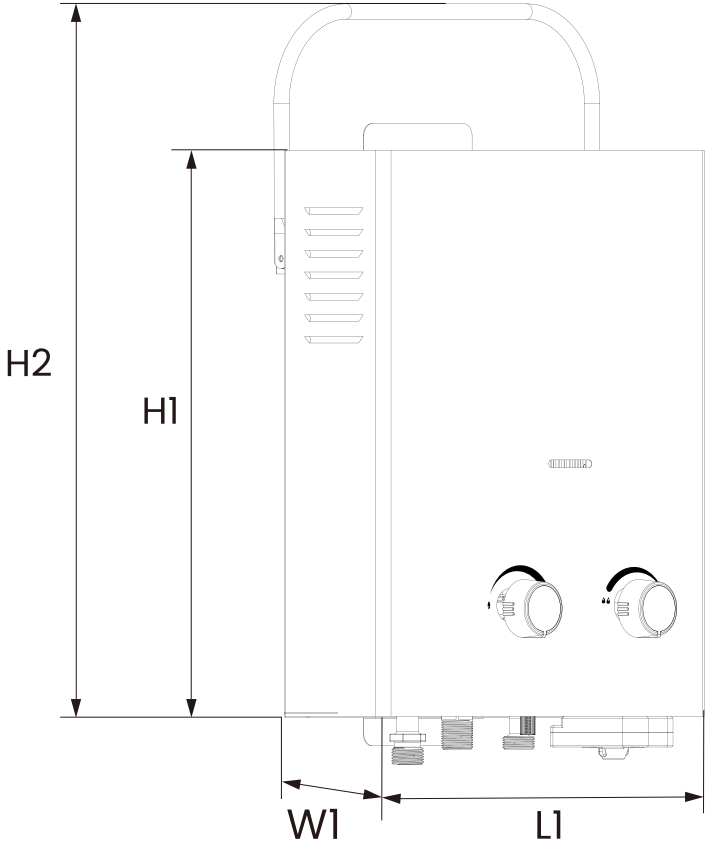

Pipe Strainer

Series	AS132	AS132 Pro
Capacity	1.32 GPM	1.32 GPM
Basic accessories		
Gas water heater	●	●
5 feet gas regulator	●	●
5 feet ON/OFF switch shower kit	●	●
11.5 feet ON/OFF switch shower kit	–	–
Hardware pack	●	●
Off-grid plumbing kits		
12V 1.2 GPM water pump	–	●
6.6 feet water hose kit	–	●
Pipe Strainer	–	●

Included “●” Not included “–”

Product Information

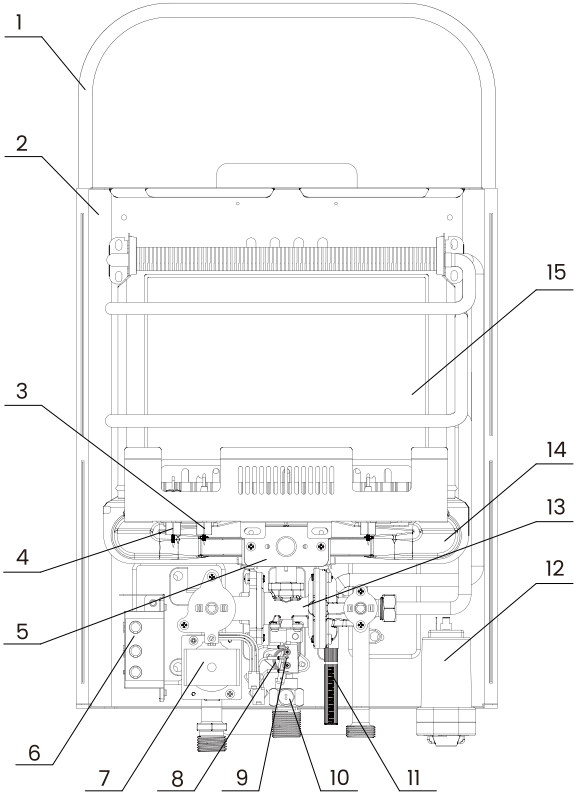
Product dimensions



Dimension (inch)	L1	W1	H1	H2
AS132	11.8	5.2	14.6	18.3

Construction & components

AS132 series

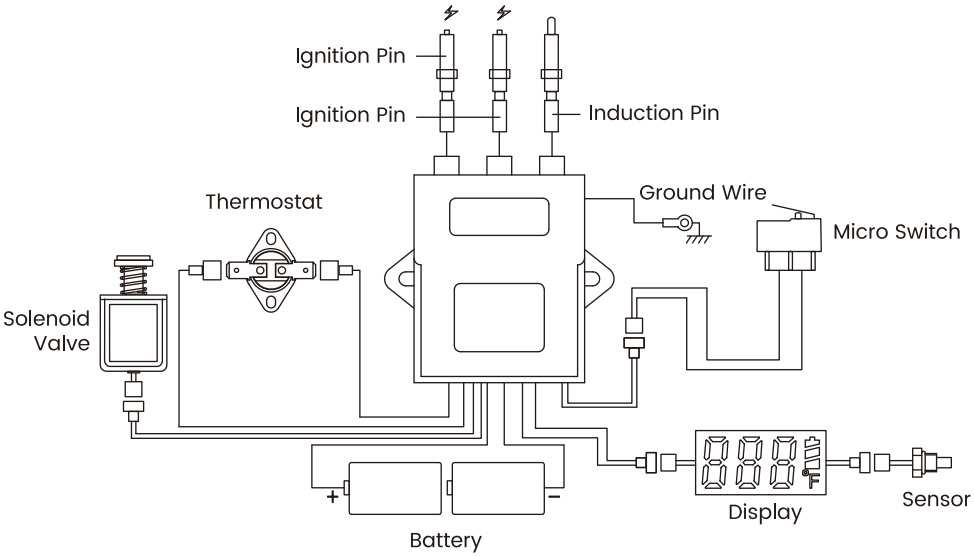


	Name of part
1	Handle
2	Back Panel
3	Induction Needle
4	Ignition Needle
5	Gas Distributor
6	Pulse Igniter
7	Solenoid Valve
8	Temperature Controller
9	Temperature Sensor

	Name of part
10	Micro Switch
11	Drain Plug
12	Battery Box
13	Gas/Water Valve Assembly
14	Burner
15	Heat Exchanger

Electrical wiring

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.
THIS CONNECTION IS FOR LOW-VOLTAGE BATTERY ONLY. DO NOT CONNECT 120 OR 240 VOLTS AC.



Replacement parts

For more available parts for your GASLAND water heater, visit www.gaslandchef.com or call 1(844)538-7890.

Replacement Part			
	Shower hose and head		1/2" BSP female to 3/4" GHT male adapter
	Gas hose and regulator		1/2" BSP female to 3/4" GHT female adapter
	Micro switch		Battery box
	Pulse Igniter		Gas/water valve assembly

Installation Instructions

The installation, adjustments and maintenance listed in this part must only be carried out by qualified persons. GASLAND is not responsible for any damage to personnel or things caused by incorrect installation.

Precautions

Combustible surfaces, fabrics, flammable materials must be kept far away from the sides and top of the appliance while it is operating.
The appliance is designed to be fixed upright against a non-combustible vertical surface. Do not operate from a non-upright position. Doing so can be dangerous and will damage the appliance.
Do not obstruct any ventilation openings in the appliance body. Position the gas cylinder on level ground next to the barbecue and safely away from any source of heat. Should you need to install or change the gas cylinder, confirm that the appliance is switched off, and that there are no sources of ignition (cigarettes, open flame, sparks, etc.) near before proceeding.

Gas & regulator

In accordance with the specifications for LP gas cylinders of the U.S. Department of Transportation (DOT) or the Standard for Cylinders, Spheres, and Tubes for the Transportation of Dangerous Goods and Commission, CAN/CSA B339, as applicable.
LP gas supply cylinders (not included) to be used must be:

1) Constructed and marked in accordance with the specifications for LP gas cylinders of the Tubes for Transportation of Dangerous Goods and Commission, CAN/CSA-B339, as applicable.
2) Provided with a listed overfilling prevention device.
3) Provided with a cylinder connection device compatible with the connection.

LEAVE GAS CYLINDER VALVE IN THE "OFF" POSITION

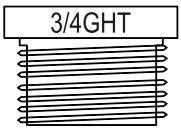
WARNING!

GAS HOSE ADAPTER & REGULATOR

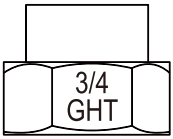
A 5/8"-18UNF ADAPTER AND CSA CERTIFIED GAS REGULATOR ARE PRE-INSTALLED AT THE GAS INLET.

ALWAYS CHECK FOR GAS LEAKS BEFORE USING.

How to use the garden hose

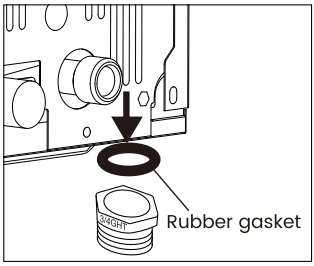


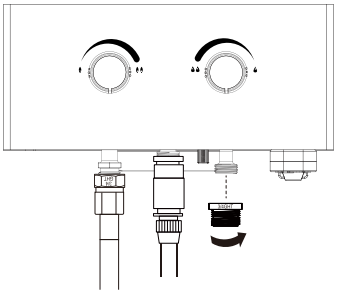
Garden hose male
1/2"BSP female X 3/4"GHT male



Garden hose female
1/2"BSP female X 3/4"GHT female

NOTICE: MAKE SURE PUT THE RUBBER GASKET IN ALL FITTINGS BEFORE CONNECTION





How to power the water pump

Connect the alligator clips to the positive and negative terminals of the 12V DC battery charger.

Note: Please make sure the positive and negative terminals are connected correctly before starting operation.

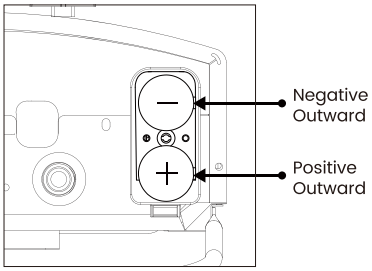
Setting up

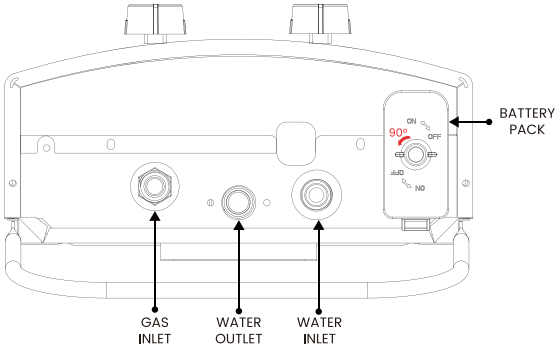
Step 1: Mount the appliance to the wall

Find a suitable sturdy, non-combustible surface, like fire-proof wall or board. Install the appliance vertically by fixing kit and ensure it securely.

Step 2: Insert 2 size "D" batteries

Install 2 size "D" batteries (not included) in the compartment at the bottom of the appliance. Check the batteries are towards the correct direction.

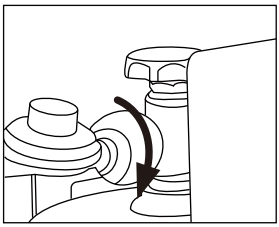




Step 3: Gas connection

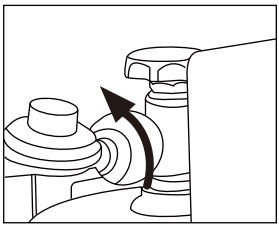
This appliance shall only be connected to a 20lb cylinder with a POL cylinder valve certified to CAN/CSA-B339. The LP-gas cylinder(s) must be constructed and marked in accordance with the specifications for Cylinders, Spheres and Tubes for the Transportation of Dangers Goods, CSA B339.

Please always use cylinder at upright position for vapor withdrawal. Connect the pre-installed certified gas regulator to LP cylinder by hand.



Connecting to cylinder

Connect the gas regulator to the gas cylinder, tightening using two fingers support posts.



Disconnecting from cylinder

Disconnect the gas regulator from the gas cylinder, tightening using two fingers support posts.

Please inspect the hose before each use of the appliance. It must be replaced prior to the appliance being put into operation if there is excessive abrasion or wear, or the hose is cut. The replacement hose assembly shall be that specified by GASLAND.

WARNING: Never use an open flame to test for gas leaks, or can result in death, personal injury and property damage. MUST be leak tested at normal operating pressures before the appliance is placed in operation.

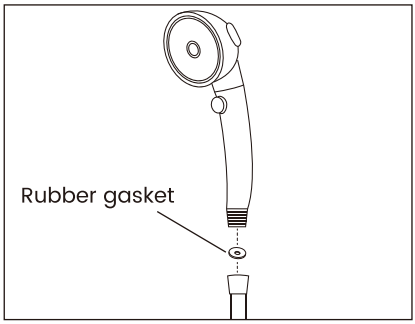
Turn on the gas shut-off valve to the appliance. Use a soapy water solution to test for leaks at all the connections and fittings. There is a gas leakage when foam blown out, generated and increasing. At this time, measures should be taken immediately to prevent continued gas leakage.

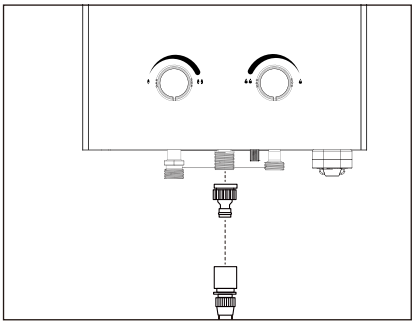
Step 4: Water outlet connection

1. Connect the red water connector to the fitting nut marked "WATER OUTLET" and then attach the snap-on connector of the shower kit to the appliance.
2. Connect the cold water pipe to the water inlet fitting nut. Connect the opposite end of the hose to the water mains.

Please note:

1. Make sure to insert the supplied rubber gasket at all water connections.
2. DO NOT OVER TIGHTEN! Tighten by hand only.





For use with the off-grid plumbing kit, please refer to the “Water pump connection” section.

Water pump connection

Series: AS132 Pro

a

12V 1.2 GPM
water pump

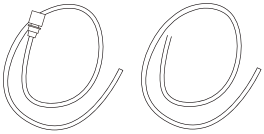
b

Hose clamp

c

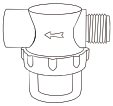
G 1/2" water
connector

d e

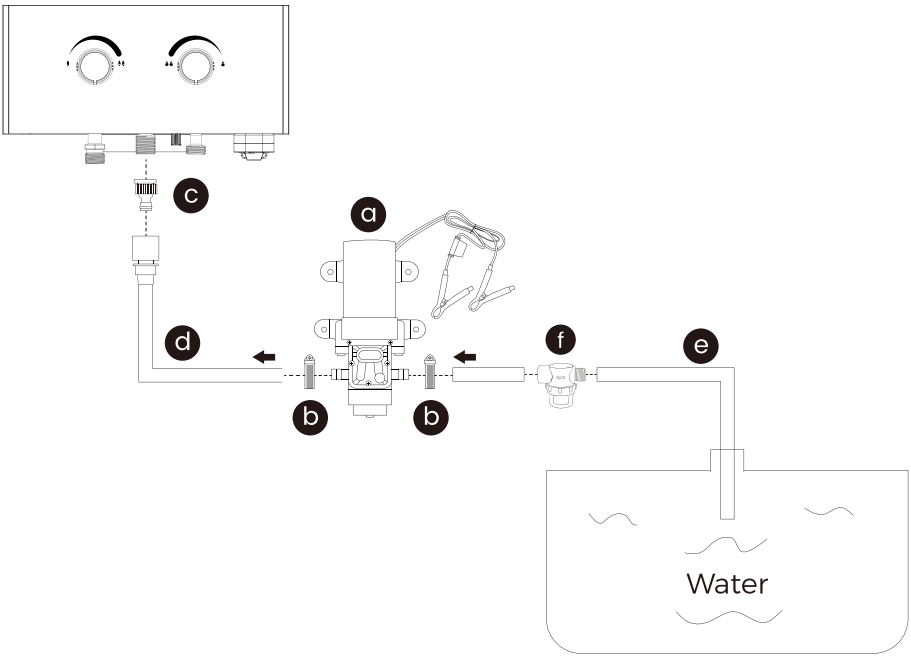


6.6 feet water hose kit

f



Pipe Strainer



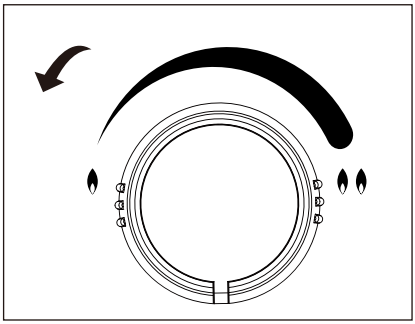
Operation

⚠ WARNING: The appliance is intended for recreational & portable use only. The appliance CANNOT be permanently mounted or plumbed in any way.

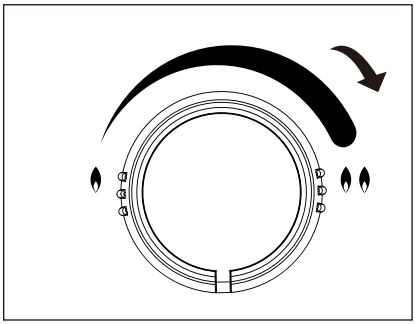
⚠ The appliance must not be exposed to flammable vapors or liquids during lighting.

Starting:

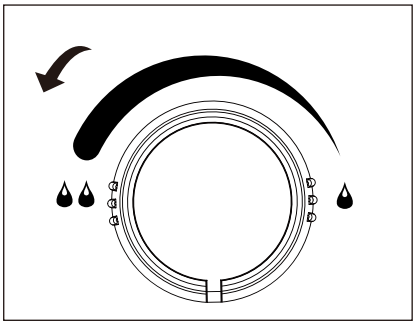
1. Turn on incoming water supply. Ensure that you have abundant water pressure of between 3.6-110 PSI for ideal operation.
2. Turn your water output device to its “OFF” position.
3. Turn the gas valve on the cylinder all the way open.
4. TURN OFF THE GAS VALVE IMMEDIATELY IF YOU DETECT THE SMELL OF GAS.
5. Set the water control knob on BLUE mark to Maximum.
6. Set the gas control knob on RED mark to Minimum.



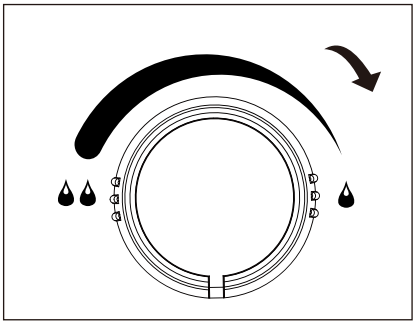
a. Decrease gas flow



b. Increase gas flow



c. Increase water flow



d. Decrease water flow

7. Turn on your water output device to the “ON” position and adjust to the desired water flow.
8. There will be a series of audible clicks and the burner will ignite. Please take note the appliance must not be exposed to flammable vapors or liquids during lighting. Should the burner not ignite after 5 seconds, shut off and go to the “Troubleshooting” section.
9. Upon completion of use or storage, open the drain valve (ribbed cylindrical stem next to the water input valve) to ensure draining of water.
10. Turn off your gas supply.

Adjustment

The temperature of the outgoing water is dependent on the temperature of the incoming water balanced with the amount of heat applied. Use extreme caution in setting the outlet water temperature.

1. With the water knob set to Max, and the gas knob set to Min, feel the outgoing water. This is the lowest setting available.
2. To initially raise the outgoing temperature, slowly turn the gas valve towards maximum. Adjust slowly and check the temperature. There will be a slight delay between increasing the gas supply and the increase in water temperature.

Care & Maintenance

Properly maintain the appliance will provide years of dependable trouble-free service. It is recommended that a periodic inspection of the burner, water filter and top exhaust should be made by service personnel qualified in gas appliance. Repairing might have come loose or is no longer connected.

It is suggested that a routine preventive maintenance program be established and followed by the user.

It is recommended to do maintenance annually.

Inspect the area around the appliance to ensure a safe operating environment.

Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids. Do not obstruct the flow of combustion and ventilation air. Ensure the appliance has not been damaged. If damage or denting is present, contact GASLAND for further assistance.

Check for any abnormal sounds during normal operation of the appliance.

Check the burner flames through visible flame window to make sure the combustion is normal during operation of the appliance.

1) Burner with pure blue flame, means well ventilation and combustion adequacy.
2) Burner with yellow/red flame, means combustion insufficiency, air intake is not enough, or appliance bottom block.
3) Burner with a lift-flame, over gas pressure, high wind condition.
4) Max gas but small flame, gas pressure is not enough.

All piping should be checked for gas and/or water leaks. Refer the "Gas leak testing" section for instructions on leak testing.

The air intake and cold water supply filters should be cleaned monthly. For clean panel surface, dust off and use kitchen cleaner to clean when you feel it is dirty.

DO NOT operate the appliance if you feel something is wrong with the appliance.

DO NOT allow children to operate or handle the appliance.

⚠ DANGER: Before disconnecting the water supply, make certain no one will be exposed to the danger of the hot water released by disconnecting. The water may be hot enough to create a scald hazard. The water should be released into a suitable drain to prevent injury or property damage.

⚠ DANGER: Hotter water increases the potential for hot water scalds.

⚠ DANGER: Failure to perform the recommended routine preventative maintenance can harm the proper operation of this appliance, which can cause carbon monoxide dangers, excessive hot water temperatures and other potentially hazardous conditions.

Gas cylinder storage

- The gas must be turned off at the LP gas supply cylinder when the appliance is not in use.
- When the LP gas supply cylinder is connected to the appliance, the appliance and cylinder must be stored outdoors, in a well ventilated space, out of the reach of children. Never stored in a building, garage or any other enclosed areas.
- Storing the appliance indoors only when cylinder is disconnected and removed from the appliance.
- Place dust cap on cylinder outlet valve whenever the cylinder is not in use. Only install the type of dust cap on the cylinder valve outlet that is provided with the cylinder valve. Other types of caps or plugs may result in gas leakage.

NOTICE: Turn off the manual gas control valve to the appliance when the gas supply fails to shut off.
A. Do not store a spare LP gas cylinder under or near this appliance.
B. Never fill the cylinder beyond 80% full.
C. Follow A and B exactly or can result in fire, or death.

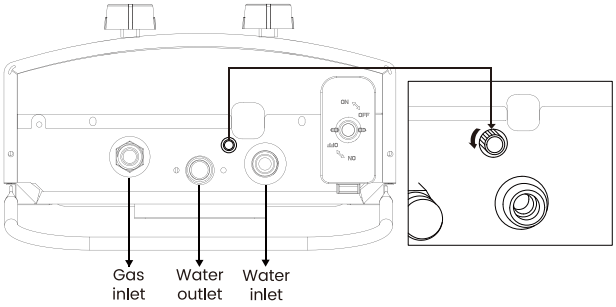
Freezing protection measures

⚠ **WARNING:** If the outside temperature is around or below freezing (32°F/0°C), ensure that the drain plug is opened and water drained from the appliance after each use to avoid internal damage to the heat exchanger. You will also need to unhook the outgoing water line to ensure that any water in the heat exchanger is drained. Failure to properly drain the appliance would cause frost crack which may or may not be reparable.

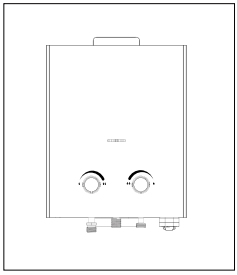
During the stage of no use, the temperature is same between the inside and outside of water, the water will expand when temperature reaches 32°F(0°C) breaking the water pipe. This is a normal phenomenon and not a quality problem.

Open the drain plug to drain off the residual water in the appliance and then screw it tightly if the environment where the appliance is installed drops below 32°F(0°C). This can prevent the cold from damaging the appliance.

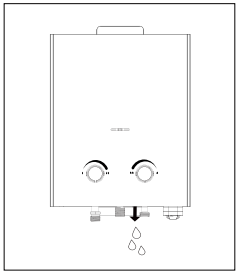
⚠ To drain the residual water totally, please keep the appliance in vertical status when draining water.



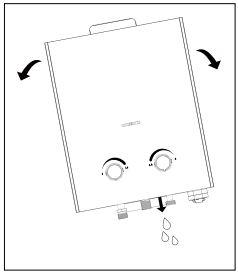
Safe storage steps



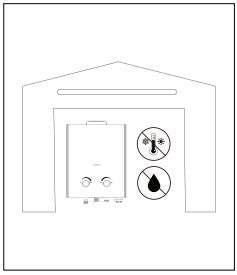
Unhook Connections
Turn off gas and water. Disconnect both of them.



Drain Water
Thoroughly drain the appliance using the drain plug.



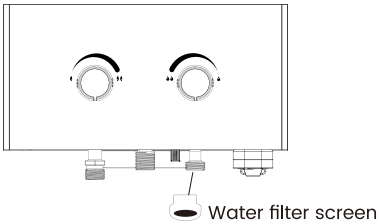
Tilt Water Heater
Tilt the appliance back and forth to remove excess water.



Store in a Safe Place
Store indoors in a warm, dry environment until next use.

Clean the water filter screen

1. Make sure the appliance is OFF.
2. Disconnect the water supply from the appliance.
3. Locate the screen at the end of the water inlet pipe and gently remove it with a screwdriver.
4. Rinse the screen in a sink or with a hose to remove any debris.
5. Return the screen by gently inserting it back into the end of the water inlet pipe.
6. Reconnect the water supply and turn ON the appliance.
7. Clean the water filter screen on a monthly basis.



If you need service

All questions, adjustments, repairs, or spare parts need replacement, please contact us on our support service at support@gaslandchef.com or give us a call at 1(844)538-7890.

Troubleshooting

Issue	Possible Cause	Solution
Appliance will not work - no audible clicks at start-up	• Water inlet and outlet connections reversed • Inadequate battery voltage or wrong direction • Wires inside disconnect during shipping • Blockage of vent pipe • Gas and water valve assembly malfunction • Ignition controller malfunction	• Water inlet and outlet connections installed correctly • Replace fresh batteries / align with correct polarity (+/-) • Take front panel off and reconnect the wires • Clean up vent pipe • Contact GASLAND for troubleshooting guide for gas and water valve assembly • Repair or replace ignition controller
Appliance will not work - audible clicks at start-up	• Incorrect gas type / gas cylinder • Too low water pressure • Blockage of gas inlet filter • Misalignment or aging of ignition pins	• Check if 20lb propane cylinder is being used • Check for sufficient water flow and pressure (3.6-110 PSI) • Clean up gas inlet filter • Bent the ignition pin back by 3-4mm to heat the burner. Replace the ignition pin if still not
Appliance shut down shortly after starting	• Inadequate battery voltage • Ignition pin wire loose • Aging of ignition pin • Ignition controller malfunction • High wind (above 10kPh) to blow flame down	• Replace new batteries • Disconnect igntion pin wire, cut about 0.2-0.3 inch off, and reconnect it • Replace induction pin • Replace ignition controller • Protect appliance from direct wind
Water is not hot enough	• Improper gas and water knob dial position • Too high water pressure • Too low inlet water temperature • Gas valve is half open • Inadequate supply of fuel gas • Altitude above 2,000 feet • Excessive carbon accumulation in the heat exchanger (flame is yellow)	• Turn flame (gas knob) up and water flow (water knob) down • Reduce water supply • Cycle water between appliance and a source reservoir to your desired temperature • Open gas valve completely to enlarge gas volume • Clean up gas route system • Recommend using below 2,000 feet (For every 1,000 feet in elevation, the efficiency of the appliance will decrease by 10%) • Clean up heat exchanger
Water is too hot	• Improper gas and water knob dial position • Blockage of water route system • Too low water pressure • Too high gas pressure • Thermostat malfunction	• Turn flame (gas knob) down and water flow (water knob) up • Clean water screen on water inlet pipe and shower head • Boost water pressure by water pump / adjust water flow rate screw at the water inlet pipe • Regulate pressure relief valve, reduce overall gas supply • Replace thermostat

Water inlet/outlet pipe is leaking	• There is a gap in the water pipe connection • Gas and water valve assembly damaged	• Wrap a few turns of teflon tape around the water pipe • Contact GASLAND for troubleshooting guide for gas and water valve assembly
Shower hose/head is leaking	• The included rubber gasket is not connected • Too high water pressure • Too hot water	• Insert the supplied rubber gasket at shower hose connection • Reduce water supply • Do not always keep the switch in the "OFF" position when using
Appliance is leaking inside	• Loose or damaged seal within the valve assembly • Gas and water valve assembly damaged • Heat exchanger damaged by freezing	• Take apart the screws of the valve assembly and adjust/replace the seal • Contact GASLAND for troubleshooting guide for gas and water valve assembly • Repair or replace heat exchanger (Refer to "Freezing protection measures" section for freeze damage tips)
Returned fire	• Too low gas pressure • Too low water pressure	• Check if gas rubber pipe twists • Boost water pressure by water pump / adjust water flow rate screw at the inlet water pipe
Deflagration	• Too high gas pressure • Air exiting inside fuel gas pipe • Inadequate battery voltage	• Regulate pressure relief valve, reduce overall gas supply • Repeat opening and closing gas knob several times • Replace new batteries

Pump Issue	Possible Cause	Solution
Water pump isn't working at all	• Power supply disconnection or malfunction	• Check pump is properly connected to 12V power source
Water pump can not pump water	• 12V power source is not powerful enough • Air existing inside water pipe • Water hose connections are loose or hoses twist • Water pump over heating • Filter blockage by debris	• Ensure your 12V power source holds a sufficient charge • Fill the water inlet pipe with water first and always keep the water inlet pipe above the pump to ensure that no air enters the pump • Tighten all connections and ensure hoses free from kinks • Restart pump when it becomes cooler • Back-frush or disassemble and clean individual parts
Pump makes a noise	• The ground is not flat	• Ensure the pump feet placed steadily on the ground

Warranty Information

GASLAND hereby warrants this appliance to be free of material defects in materials and workmanship when installed and operated according to GASLAND's installation and operating instructions. This Limited Warranty extends to the original purchaser and subsequent owners, but only while the appliance remains at the site of the original installation. This Limited Warranty terminates if moved or reinstalled at a new location. There are no warranties, express or implied made or given other than contained in this Limited Warranty. No agent, employee or representative of GASLAND has any authority to bind GASLAND to any representation or warranty concerning the appliance not contained in this Limited Warranty.

Except as expressly set forth herein, THERE ARE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ANY GOODS SOLD HEREUNDER. BUYER'S EXCLUSIVE REMEDY IS LIMITED TO REPAIR OR REPLACEMENT OF THE GOODS SOLD, AT GASLAND'S DISCRETION. GASLAND SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Item Period of Coverage
Heat Exchanger 1 year
All other parts 1 year

Free Accessories (Shower head, hose, gas regulator, etc.) 30 days

Coverages are void if the appliance is used in a hot water circulation loop, in series with a circulation system or where an on-demand recirculation system is not incorporated.

Owner is responsible for all other costs incidental to repairs such as labor, shipping, delivery and permits. Proof of purchase is required. Products repaired will be covered under this Limited Warranty for the remainder of the term of the original purchase.

This Limited Warranty becomes null and void if any of the following are determined to be a contributing factor to the failure of the appliance:
1. Abuse, misuse, alteration, neglect or misapplication;
2. Improper or inadequate maintenance;
3. Inadequate water quality;
4. Installation in a corrosive or otherwise destructive environment;
5. Freeze damage;
6. Scale buildup;
7. Incorrect gas or water pressure;
8. Acts of force majeure

This appliance is not to be used as a pool or spa heater.

Within the first 30 days of purchase, GASLAND will cover all ground shipping costs for warranty-related issues, excluding AK, HI, Canada, and any location outside of the continental US. After the first 30 days of purchase, GASLAND will cover all shipping costs to the customer for warranty-related issues, excluding AK, HI, Canada, and any location outside of the continental US. After the first 30 days of purchase, the customer is responsible for all shipping to GASLAND, regardless of reason or circumstance. The method for warranty-related shipping will be ground equivalent with the provider of GASLAND's choosing.

AK, HI, Canada, and any location outside of the continental US, will be responsible for all shipping costs, regardless of reason or circumstance.

All shipments of any type of appliance coming to GASLAND for any reason must have an RGA for any repairs to be made. Please contact GASLAND to obtain an RGA number prior to shipping anything to GASLAND. Failure to do so could result in loss of appliance. GASLAND will not be responsible for replacement due to loss or damage if these steps are not properly followed.

SCAN ME

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