

# Instruction and Operation Manual (B-model)



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# READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

## How to set up your hot tub.

- Select your set-up location with safety in mind. Wet surfaces can be slippery.
- Always place on a level and stable surface and use the protective foam base.
- With water, the assembly will weigh approximately 2500 lbs. Ensure it is placed on a surface that can support the weight.
- Set the tub a safe distance from any combustible materials.
- The chimney should be at least 10 feet away from any building or structure.
- Securely install the stove in the tank with the latch pins.
- The chimney must be attached prior to operation.
- **Never light a fire in the stove without the tub being filled with water at least 1” above the upper stove face** (see diagram page 6).
- Keep the stove lid in place when the stove is lit.
- Your tub comes with a drain plug installed. A 3/8 ratchet fits to remove it. Once removed you can install the included shutoff valve. Do not overtighten. \*Hand tighten only.
- Use your hot tub responsibly and safely.

## Operation

- Note: During the first fire, the stove may not burn effectively. It has yet to “cure”. This may make the fire more difficult to maintain. Subsequent fires will be much easier to maintain.
- Use plenty of paper and kindling to get the fire started. Start your fire inside the stove, **beneath the chimney**. As the hot air from the fire rises through the chimney, this will ensure proper “breathing” circulation by drawing air in the feed chamber and exhausting smoke out of the chimney.
- If smoke rises out of the feed chamber, blow into the feed chamber to create the correct circulation.
- Initially, the rotary damper should be fully open.
- Use larger pieces of wood in an established fire. The more fuel you burn, the hotter the water will get. Never burn chemically treated wood.
- As your fire and coals become more established, you will be able to utilize the rotary damper to control the burn rate and water temperature.
- As the water heats it will need to be stirred occasionally; the water will be warmer near the top.
- Heating time will vary based on conditions. It could take up to 3 hours.
- Once you have reached approximately 90 degrees F do not add any more wood. Adjust the damper to a mostly closed position. This will soon result in a temperature near the desired maximum range.
- 104 degrees F. is the maximum recommended water temperature. Prior to entering, always stir then test the water, to ensure an appropriate temperature.
- When you get out, if water has been displaced from occupying the tub, be sure to refill it to above the upper stove face (see diagram page 6). Irreparable damage will occur to the stove if it is used without adequate water levels above the upper stove face. You may want to make a “fill line“ mark on the inside of the tub for future reference.
- Be sure there is no more heat in the stove before draining the tub. Irreparable damage will occur to the stove if it is used without adequate water levels above the upper stove face (see diagram page 6).
- Any remaining water can be wiped out with a towel.
- Do not touch the chimney or surrounding portions of the stove as they may burn you.

- Never leave children, vulnerable or dependent people, unattended, in or around hot tubs, at any time, without adult supervision. Risk of accidental drowning or burns.

## Temperature control

Temperature control is quite simple. It's similar to controlling the temperature while filling a bathtub but instead of adjusting the taps, you adjust the amount of wood you add to the fire. The damper will control air flow and burn rate to fine tune your heating rate. With experience, this process becomes very intuitive. If the water gets too hot, simply add some cold water. **The included thermometer is not a precision instrument but for reference only. Purchasing a digital infrared temperature reader (temperature gun), for accurate temperature readings, is recommended.** Be sure to have the water at a suitable temperature. Never drain the hot tub until the stove has completely cooled. Irreparable damage will occur to the stove if it is used without adequate water levels above the upper stove face (see diagram page 6).

## Frequently asked questions

### What is included with the hot tub?

- Tub, stove, stove lid, lower chimney (with heat shield), upper chimney (with spark arrestor), insulating/protective base pad, floating insulating top, safety fence, beverage bucket, shelf, thermometer, debris net, fill/drain valve, and paddle.

### How much does it weigh?

- The entire weight of the (empty/dry) tub assembly including all accessories is approximately 185 lbs. Filled with water, the tub weighs over 2500 lbs.

### What are the dimensions of the product?

- The tub is 8' long, 3' wide and 2' tall. Attached, the chimney reaches to 98" (or 8'2"). With the chimney and stove removed (in transport condition) the assembly will all fit inside the tub.

### How much water does it hold?

- Each tub holds approximately 294 US gallons.

### How much wood does it take to heat the water?

- This will be dependent on multiple factors: the temperature of the water source, how hot you want the water, what kind of wood you are burning, how dry the wood is, etc. Generally, you can achieve a comfortable temperature in 2-3 hours. You will be surprised how little wood is required.

### How large a piece of wood can I fit in the stove?

- So long as the wood you are using safely fits inside the bottom of the stove, you can use it. Larger pieces of wood work well once the fire and coals are established. The stove easily accommodates 2" x 4" lumber that is cut to 26" in length.

### **How do I clean and maintain my hot tub?**

- With use, the spark arrestor may begin to accumulate soot. Occasional cleaning is required to ensure proper air flow. It can be cleaned with pressurized air, a brush, or a garden hose.
- A Firetubs hot tub is not intended to be left full of water when not in use. Fresh water is recommended. Change the water frequently and there is no need to use chemicals. Simply fill the tub with fresh water; heat and enjoy a few times; then empty the tub. Use the water wisely as, being untreated, it can be re-used as grey water (i.e. for lawns or gardens).
- It is the owner's responsibility to ensure the hot tub is clean. Always keep surfaces and decks clean. Bacteria and dirt on surfaces may enter into the water with you. Always shower or bathe with soap before use. This helps keep the water free of germs and body oils.
- Cleaning recommendations:
  - Drain water, rinse tub with fresh water (use a garden hose).
  - With a mild soap solution and a clean soft brush, use firm circular motions to clean the tub. Do not use a hard-abrasive brush on the tub or you may scratch the surface.
  - Rinse thoroughly with fresh water to get rid of any soap and then dry with a soft cloth.
  - Depending on frequency of use it may not be necessary to clean with soap after every use. Simply rinse with clean water and wipe down with a soft cloth.

### **How do I remove ash from the stove?**

- Always be sure there is no longer any residual heat prior to cleaning the stove.
- How often you clean out the ash depends on what wood you use and how much you use your hot tub.
- As ash accumulates it will need to be emptied from the stove. When the tub is empty of water, and the stove has cooled, remove the chimney sections and disconnect the stove mount latch pins. Set the stove lid aside and remove the stove from the tub. The stove can simply be inverted to dump the ashes. Any remaining ash can be brushed out. Due to the efficient nature of the stove, and the temperatures reached, ash burns to a fine powder and accumulation is surprisingly little.
- Alternatively, a scoop can be used to remove the ash.

### **How to I disassemble and store my hot tub?**

- With the stove cooled and the water emptied, disconnect the stove mount latch pins. The stove and fence assembly can then be laid inside the tub along with all the other pieces. Turn the tub upside down and place it on blocks for long term storage.

### **Does Firetubs have a warranty?**

- Complete satisfaction is our goal. Our stoves and tubs have a 1-year guarantee on materials and workmanship.

## WARNINGS:

**NEVER** use accelerants (gasoline, kerosene, aerosols, etc.) or chemically treated wood with this product.

**NEVER** leave children, vulnerable or dependent people, unattended, in or around hot tubs, at any time, without adult supervision. Risk of accidental drowning or burns.

**NEVER** touch the chimney or surrounding portions of the stove. Risk of burns.

**NEVER** enter the hot tub, prior to measuring the water temperature with an accurate thermometer.

**NEVER** permit electric appliances (such as light, telephone, radio, television, etc.) within 5 feet (1.5m) of this hot tub.

**NEVER** use a hot tub immediately following strenuous exercise.

**NEVER** disconnect the stove latch pins when the stove is hot or submerged in water.

**NEVER** allow the water to freeze. Irreparable damage will occur.

**NEVER** use drugs or alcohol before or during the use of a hot tub to avoid unconsciousness and possible drowning.

Prolonged immersion in hot water may induce hyperthermia. The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tubs. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 99°F (37°C). The symptoms of hyperthermia include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include:

Unawareness of impending hazard; failure to perceive heat; failure to recognize the need to exit hot tub; physical inability to exit hot tub; fetal damage in pregnant women; and unconsciousness and danger of drowning.

Persons using medication or suffering from obesity or a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a hot tub. Pregnant or possibly pregnant women should consult a physician before using a hot tub.

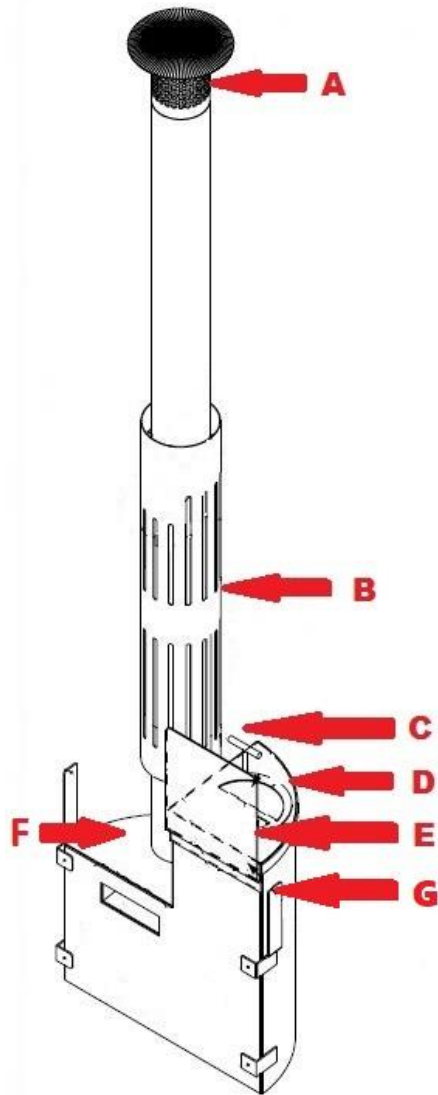
People with infectious diseases should not use a hot tub.

If you have diarrhea, have been vomiting, have an open wound, or any other infection or illness, you should not go in hot tub until you have been symptom-free for at least 48 hours.

To avoid injury, exercise care when entering or exiting the hot tub.

## DISCLAIMER

Firetubs Inc. shall not be liable for loss of use of the tub or other incidental or consequential damages. Under no circumstances shall Firetubs Inc. or any of its representatives be held liable for injury to any persons or damage to any property.



- A** Upper chimney (with spark arrestor)
- B** Lower chimney (with heat shield)
- C** Lift handle/damper control
- D** Stove Lid
- E** Fence shield
- F** Upper stove face
- G** Stove mounts