



# Universal Fire Tube Boiler

## Wall Mount



**INSTALLATION**

**START-UP**

**MAINTENANCE**

**PARTS**

**WARRANTY**

*Models*

**UFT-80W / 100W / 120W / 140W / 175W / 199W**



*Heat Exchanger Bears the ASME "H" Stamp*

**NOTICE:** HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature.

**NOTE TO CONSUMER: PLEASE KEEP ALL INSTRUCTIONS FOR FUTURE REFERENCE.**

### **WARNING**

**IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE. DO NOT STORE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER BOILER.**

#### **WHAT TO DO IF YOU SMELL GAS**

- Do not try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department. Installation and service must be provided by a qualified installer, service agency, or the gas supplier.

## OPTIONAL EQUIPMENT

Below is a list of optional equipment available from HTP. These additional options may be purchased through your HTP distributor:



- System Sensor (Part # 7250P-324)
- Indirect Tank Sensor (Part # 7250P-325)
- 2" PVC Concentric Vent Kit (Part # KGAVT0501CVT)
- 3" PVC Concentric Vent Kit (Part # KGAVT0601CVT)
- 2" Stainless Steel Outside Termination Vent Kit (Part # V500)
- 3" Stainless Steel Outside Termination Vent Kit (Part # V1000)
- 4" Stainless Steel Outside Termination Vent Kit (Part # V2000)
- 6" Stainless Steel Outside Termination Vent Kit (Part # V3000)
- 3" Polypro Vent Kit (Part # 8400P-001)
- 3" Polypro Pipe (33' length Part # 8400P-002, 49.5' length Part # 8400P-003)
- Condensate Neutralizer (Part # 7450P-212)
- Condensate Removal Pump (Part # 554200)
- Communication Cable (Part # 7850P-093)
- 2" Vent Screens (Two Screens) (Part # 7850P-088)
- UL353 Low Water Cut-Off Kit (Part # 7855P-315)
- Conversion Kit

**NOTE:** When using an optional system sensor, pipe insulation must be wrapped around it to improve temperature measurement accuracy and increase overall system efficiency.

## PART 2 – SAFETY REGULATIONS

### A. OPERATION AND INSTALLATION WARNINGS

To avoid serious injury or death, read, understand, and follow all the precautions listed here.

 <b>DANGER</b>
Vapors from flammable liquids will explode and can cause a fire, resulting in personal injury or death. The boiler has a burner that can come on at any time and ignite vapors. DO NOT use or store flammable liquids around the boiler.
Improper venting can cause a build-up of carbon monoxide. Breathing carbon monoxide can result in brain damage or death. DO NOT operate the boiler unless it is properly vented to the outside and has an adequate fresh air supply for safe operation. Inspect the exterior exhaust gas outlet port and fresh air inlet port on a regular basis to ensure they are functioning properly.
A concentration of carbon monoxide as small as .04% (400 parts per million) in the air can be fatal. When making high fire or low fire adjustments, CO levels must be monitored using a flue gas analyzer such that a CO level of no more than 400 ppm is exceeded at any time during operation.
Adjusting the "low fire offset" on the gas valve in even small increments can result in a significant increase in CO concentration. To avoid serious injury or death, DO NOT make any adjustments to the gas valve without monitoring the exhaust gases with a fully functional and calibrated flue gas analyzer.
Failure to follow these statements will result in property damage, severe personal injury, or death.
 <b>WARNING</b>
This boiler must be installed by a licensed plumber, licensed gas fitter, and/or professional service technician. Improper installation and/or operation can cause a potentially hazardous situation, which, if not avoided, could result in serious injury or death, and will void the warranty.
HTP, Inc. cannot anticipate every circumstance that might involve a potential hazard. Each installation has its own specialized characteristics, requirements, and possible hazards. Therefore, all possible incidents are not included in these warnings. Proper and safe installation, operation, and service are the responsibility of the professional service technician.
Proper care of the boiler is the user's responsibility. Ensure the user carefully reads and understands the User's Information Manual before operating and maintaining the boiler.
Make sure the user knows the location of the gas shut-off valve and how to operate it. Immediately close the gas shut-off valve if the boiler is subjected to fire, overheating, flood, physical damage, or any other damaging condition that might affect the operation of the unit. Have the boiler checked by a qualified technician before resuming operation.
Do not power up the unit unless the gas and water supply valves are fully opened. Make sure the fresh air intake port and exhaust gas port are open and functional.
No one but a professional service technician should attempt to install, service, or repair this boiler. There are no serviceable parts which can be changed by the user / owner. User / Owner: Contact the original professional service technician if the boiler needs repair or maintenance. If the original technician is unavailable, ask your gas supplier for a list of qualified service providers.
Keep the area around the boiler clean and free of all materials that can burn. DO NOT store or place gasoline, oils, spray paint, or other flammable products near the boiler.