Medium Mass

316L Stainless Steel, Fire Tube Heat Exchanger

10 to 1 Turndown Ratio

Advanced Modulating Gas Condensing Boiler; up to 96% AFUE

Venting: 2” or 3” PVC, CPVC or Polypropylene

No Primary / Secondary Piping Needed

Supply and Return Connections on Both the Top and Bottom

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UFT Boiler

A CLOSER LOOK

Intake Pipe

10 to 1 Mixer

Modulating Gas Valve

Turbo Fan
Modulating fan provides significant power for long vent runs

Intake Exhaust

Ceramic Fiber Burner
The Eco Pre-Mixed burner offers high combustion efficiency and low CO and NOx emissions

Modulating fan provides significant power for long vent runs

Main Control
- Multiple safety functions
- Built in dual stage anti-freezing mechanism

Optical Flame Sensor

Heat Exchanger
- Hi-fin heat exchanger
- Higher efficiency
- Lower pressure drop
- Compact storage size

Heat Exchanger
- Hi-fin heat exchanger
- Higher efficiency
- Lower pressure drop
- Compact storage size

Low Voltage Terminal Strip
- Cascade Sensor
- DHW Sensor
- 0-10 Volt
- Outdoor Sensor
- Optional Low Water Cutoff Wiring Connection

Condensate Trap

Line Voltage Terminal Strip
- DHW Pump
- CH Pump
- Optional Low Water Cutoff Wiring Connection

CH Pressure Gauge
MULTIFUNCTION CONTROL PANEL

OPTIONAL EQUIPMENT
- System Sensor
- Indirect Tank Sensor
- 3", 4", 6" Stainless Steel
  Outside Termination Vent Kit
- 3" PVC Concentric Vent Kit
- U.L. 353 Compliant Low Water Cutoff w/ Manual Reset
- PC Connection Kit
- Condensate Neutralizer

INCLUDED IN THE BOX
- 2 Vent Screens (3")
- 30 PSI Pressure Relief Valve
- 1 ¼" x 1 ¼" x ¾" Tee (steel)
  & 3/4" Street Elbow (steel)
- Anchors & Wall Mounting Bracket
- Quick Reference Guide, User & Installation Manuals
- Condensate Hose
- Spare Parts Kit
- 3" CPVC Pipe (6" Length)
- Outdoor Sensor with Screws & Anchors

Model | UFT-80W | UFT-100W | UFT-120W | UFT-140W | UFT-175W | UFT-199W
--- | --- | --- | --- | --- | --- | ---
AFUE | 95.4% | 95.1% | 95.6% | 95.0% | 95.9% | 96.0%
**DIMENSIONS**

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<tr>
<th>DESCRIPTION</th>
<th>DIAMETER</th>
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<td>A CH SUPPLY ADAPTERS</td>
<td>1-1/4” NPT</td>
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<td>B CH RETURN ADAPTERS</td>
<td>1-1/4” NPT</td>
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<td>C GAS CONNECTION ADAPTER</td>
<td>3/4” NPT</td>
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<td>D CONDENSATE DRAIN ADAPTER</td>
<td>1/2” NPT</td>
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<td>E AIR INTAKE PIPE CONNECTION</td>
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<td>F EXHAUST PIPE CONNECTION</td>
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- **Input Rate**
  - UFT-80W: 8,000~80,000 Btu/hr
  - UFT-100W: 10,000~100,000 Btu/hr
  - UFT-120W: 12,000~120,000 Btu/hr
  - UFT-140W: 14,000~140,000 Btu/hr
  - UFT-175W: 19,900~175,000 Btu/hr
  - UFT-199W: 19,900~199,000 Btu/hr
- **AFUE**
  - UFT-80W: 95.4%
  - UFT-100W: 95.1%
  - UFT-120W: 95.6%
  - UFT-140W: 95.0%
  - UFT-175W: 95.9%
  - UFT-199W: 96.0%
- **Dimensions (W - H - D)**
  - UFT-80W: 17.25” - H 29.0” - D 15.5”
  - UFT-100W: 19.68” - H 31.89” - D 17”
- **Installation Type**: Indoor / Wall hung
- **Vent Type**: Forced Draft Direct-vent
- **Combined Vent Length & Venting Materials**: 2”(50ft) , 3”(100ft) / PVC, CPVC, PP & Power Vent
- **Ignition**: Direct Electronic Ignition
- **Gas Supply Pressure**
  - Natural Gas: 3.5” WC to 14” WC
  - Propane Gas: 3.5” WC to 14” WC
- **Power Supply**
  - Main Supply: 120V 60Hz
  - Max Power: 160W
- **Water Pressure**: Min 12 ~ Max 30 PSI
- **Connection Sizes**
  - Supply/Return: 1-1/4” NPT
  - Gas Inlet: 3/4” NPT
- **Warranty**: Limited 10 Year Residential Warranty

In accordance with our company policy of ongoing product improvement, HTP Inc. reserves the right to make changes without prior notice.