



FT™ Series Super High Efficiency  
Condensing Gas Boilers

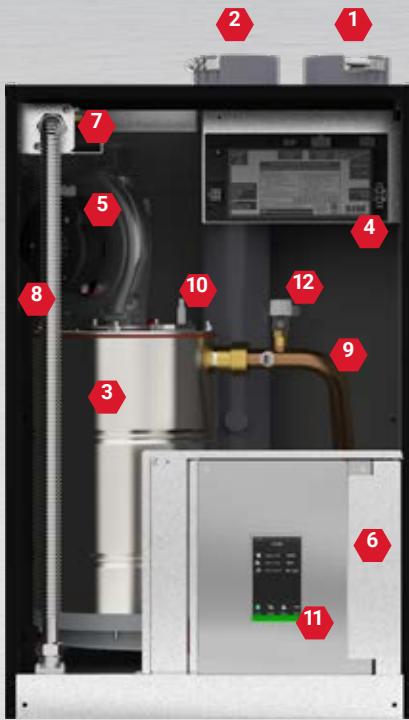
FULL COLOR INTUITIVE  
TOUCHSCREEN DISPLAY

DELIVERING  
DURABILITY

YOUR COMFORT,  
PERFECTLY CONTROLLED

RELY ON





## Interior

- 1 Intake Duct
- 2 Exhaust Duct
- 3 Fire Tube Heat Exchanger
- 4 Ignition Module
- 5 Fan
- 6 Terminal Block Cover
- 7 Gas Valve
- 8 Gas Line
- 9 Supply Water Pipe
- 10 Ignitor
- 11 Full Color Intuitive Touchscreen
- 12 Low Water Cutoff

All FT™ Series Boilers include a full color intuitive touchscreen display featuring the latest in controls technology and software.

**FT™ Series Boilers** deliver high performance and feature an intuitive touchscreen display with 4-zone temperature control. They're ideal for larger homes that require maximum control and suitable for both new construction and retrofit applications.

## High Performance, Efficiency and Value

for all your home heating and domestic hot water needs

### Intuitive Touchscreen Display Controls:

- **Easy Setup & Maintenance:** Simplified calibration, diagnostics, maintenance and troubleshooting
- **4-Zone Temperature Control:** Manages up to four heating zones with individual temperature settings, no external controllers needed
- **System Monitoring:** Real-time operational data
- **Color-Coded Alerts:** Quick visual status notifications
- **Historical Data Logs:** Access past performance insights
- **USB Port:** Enables fast updates and software installs
- **Cascade Capability:** Control up to four boilers seamlessly

### Maximum Performance:

- **95% AFUE**
- **ENERGY STAR® certified**
- **Stainless Steel Fire Tube Heat Exchanger:** ASME-rated for safety, efficiently transfers heat from combustion gases to water
- **6.5:1 Turndown Ratio:** Increases boiler efficiency and life



### Built-In Features:

- **Moisture Free Zone (MFZ) Technology:** Protects components from corrosion
- **Outdoor Reset Control:** Adjusts water temperature with outdoor conditions
- **Reverse Flow Detection:** Detects and alerts if water is flowing in the wrong direction
- **Safety Certified:** CSA/UL approved with **low water cutoff** and **high-limit protection**
- Seamlessly connects with **Rheem indirect tanks** for consistent domestic hot water

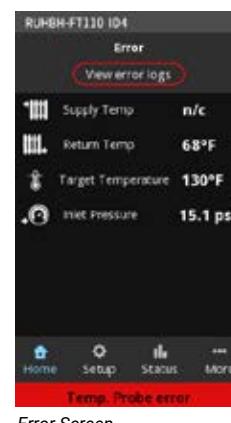
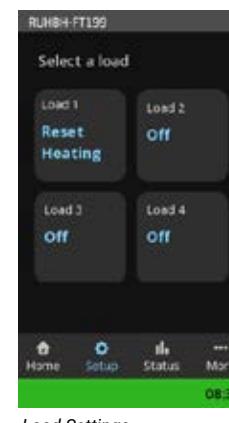
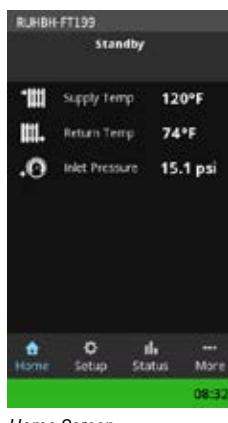
### Easy to Install & Service:

- **Universal Shared Platform Parts:** (Fan & Gas Valve) Simplifies diagnosis and servicing
- **Extended Venting Lengths:** Up to 200 ft (2") and 480 ft (3") options
- **Condensate System:** Draining system cleans as it heats
- PVC/CPVC/PP approved
- Fuel conversion kits included

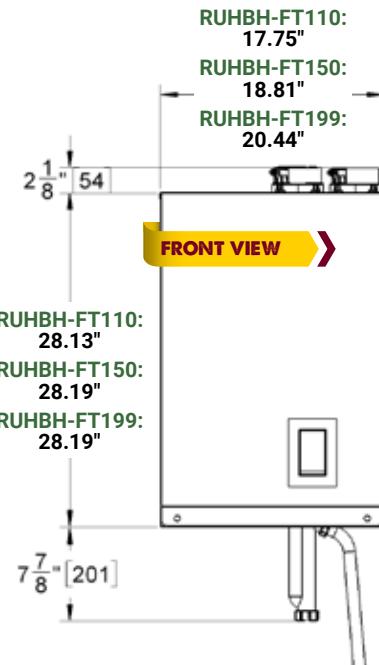
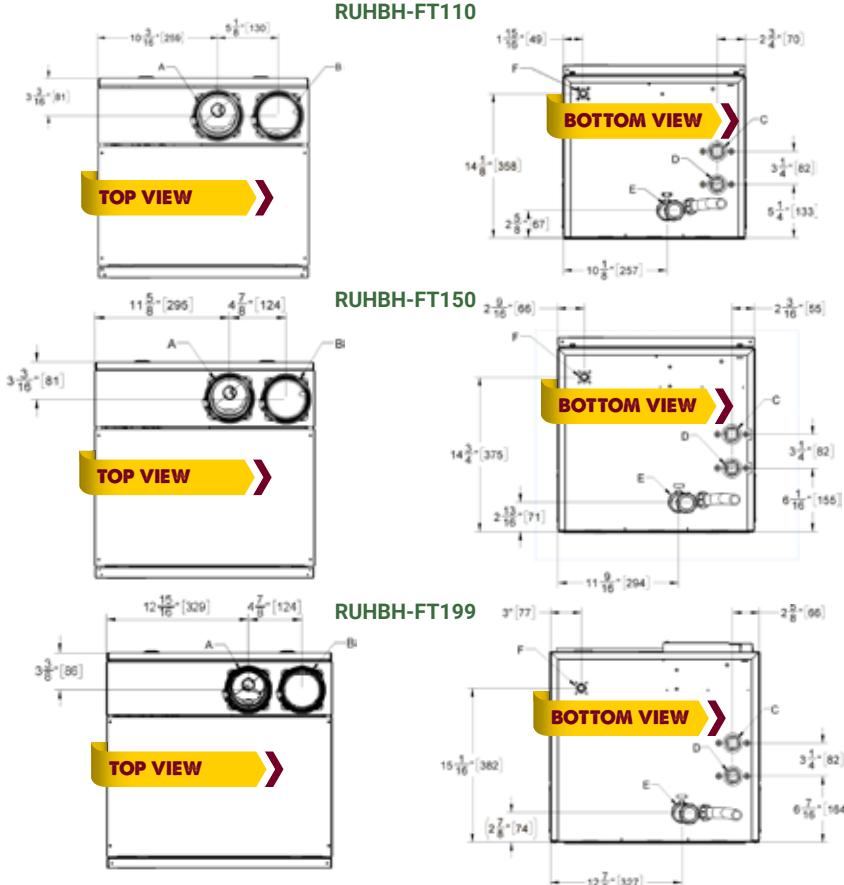
### Warranty:

- **15-Year Heat Exchanger, 5-Year Parts, 1-Year Labor**

## Control at Your Finger Tips



# Dimensions



## PIPING CONNECTIONS

MODEL NO.	RUHBH-FT110	RUHBH-FT150	RUHBH-FT199
<b>A</b> Flue Outlet	3" Schedule 40 or 3" PP (80mm)		
<b>B</b> Combustion Air Inlet	3" Schedule 40 or 3" PP (80mm)		
<b>C</b> Return Water Inlet (Tepid)		1" NPT-M	
<b>D</b> Supply Water Outlet (Hot)		1" NPT-M	
<b>E</b> Condensate Outlet		3/4" Hose	
<b>F</b> Gas Inlet		1/2" NPT-F	

VENTING	MAXIMUM EQUIVALENT LENGTHS		
SCHED. 40; RIGID PP	RUHBH-FT110	RUHBH-FT150	RUHBH-FT199
2"	100'	50'	Not Permitted
3"	240'	170'	100'
90° Vent Elbow	Equivalent to 8'		
90° Long Sweep Elbow	Equivalent to 5'		
45° Elbow	Equivalent to 3'		
PP 87-90° Elbows	Equivalent to 8'		
2" Stainless Steel Sidewall Terminal - Exhaust Vent (P-256)	Exhaust: Equivalent to 20' Intake: Equivalent to 0'	Not Permitted	
3" Stainless Steel Sidewall Terminal - Exhaust Vent (P-257)	Exhaust: Equivalent to 20' Intake: Equivalent to 0'		
Flexible PP 3" Flexible	45' (max.) Lineal x 1.2 = Equiv.	30' (max.) Lineal x 3.33 = Equiv.	

## CLEARANCE FROM BOILER CABINET

SURFACE	MIN. DISTANCE FROM COMBUSTIBLE SURFACES	RECOMMENDED DISTANCE FOR INSTALLATION AND SERVICE
Front	2"	24"
Rear Flue Connection	0"	0"
Left Side	0"	4" (allow access to water connections)
Right Side	1"	4" (allow access to water connections)
Top	2"	6" (for vent connection)
Bottom	0" (clearance for pipes)	12" (for condensate trap and piping)

# Technical Information

## SPECIFICATIONS

MODEL NO.	RUHBH-FT110	RUHBH-FT150	RUHBH-FT199
<b>CSA Input (NG or Propane) – MBH</b>	16.9-110	23-150	30.6-199
<b>CSA Input (NG or Propane) – kW</b>	5.32.2	6.7-44	8.8-58.3
<b>CSA Output (NG or Propane) – MBH</b>	16.2-101.5	22-138.5	29.2-183.7
<b>CSA Output (NG or Propane) – kW</b>	4.74-29.8	6.5-40.6	8.6-53.8
<b>AFUE</b>	95%	95%	95%
<b>Min. Gas Supply Pressure (NG or Propane) – inch w.c.</b>	4	4	4
<b>Max. Gas Supply Pressure (NG or Propane) – inch w.c.</b>	14	14	14
<b>Ambient Temperature – Low (°F/°C)</b>	32/0	32/0	32/0
<b>Ambient Temperature – High (°F/°C)</b>	122/50	122/50	122/50
<b>Max. Relative Humidity (Non-Condensing)</b>	90%	90%	90%
<b>Min. Water Temperature (°F/°C)</b>	34/1	34/1	34/1
<b>Max. Water Temperature – (Electronic High Limit) (°F/°C)</b>	190/88	190/88	190/88
<b>Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)</b>	40/22	40/22	40/22
<b>Max. Water Temperature Lockout Limit (°F/°C)</b>	201/94	201/94	201/94
<b>Power (120Vac/60Hz) at Full Fire – watts (w/o pumps)</b>	90	79	90
<b>Weight (Empty) – lbs/kg</b>	67/30.4	78/35.4	88/39.9
<b>Pressure Vessel Water Content – USG/Liters</b>	1.88/7.12	2.7/10.56	3.51/13.29
<b>Max. Boiler Flow Rate – USgpm</b>	14	19	25
<b>Min. Boiler Flow Rate – USgpm</b>	2	3	4
<b>Max. Operating Water Pressure – psig</b>	50	50	50
<b>Min. Operating Water Pressure – psig</b>	8	8	8
<b>Relief Valve Pressure – psig</b>	30	30	30
<b>Approved Installation Altitude – ASL</b>	0-12,000'	0-12,000'	0-12,000'
<b>Ultra Low NOx</b>	Meets 14 ng/J NOx requirements – SCAQMD Rule 1146.2 compliant		

## ACCESSORIES

FLOOR STAND	PARTS KIT
Part No. P-267 	Part No. P-1632 

## CONTACT US

**Customer Service,  
Warranty and Parts**  
800.621.5622

**Technical Service**  
833-212-9276

**Plumber  
Support Group**  
866.339.2388

*In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice.*



QUALIFIES  
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CREDITS

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