



FT™ Series Super High Efficiency
Condensing Gas Boilers

FULL COLOR INTUITIVE
TOUCHSCREEN DISPLAY

DELIVERING
DURABILITY

**YOUR COMFORT,
PERFECTLY CONTROLLED**





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

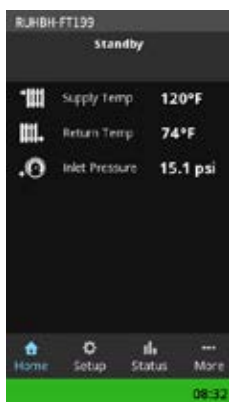
Easy to Install & Service:

- **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**

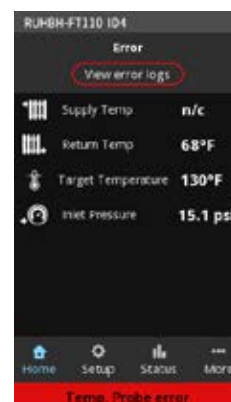
Control at Your Finger Tips



Home Screen

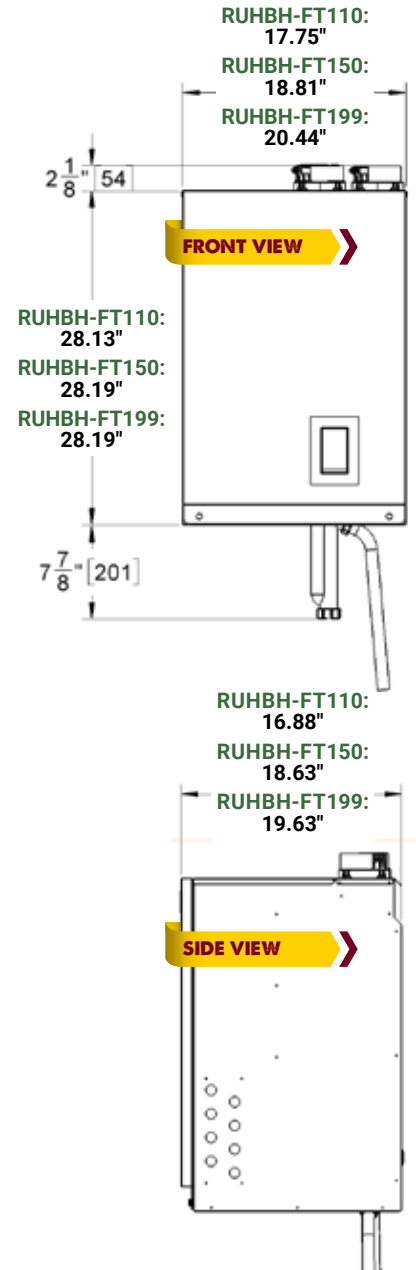
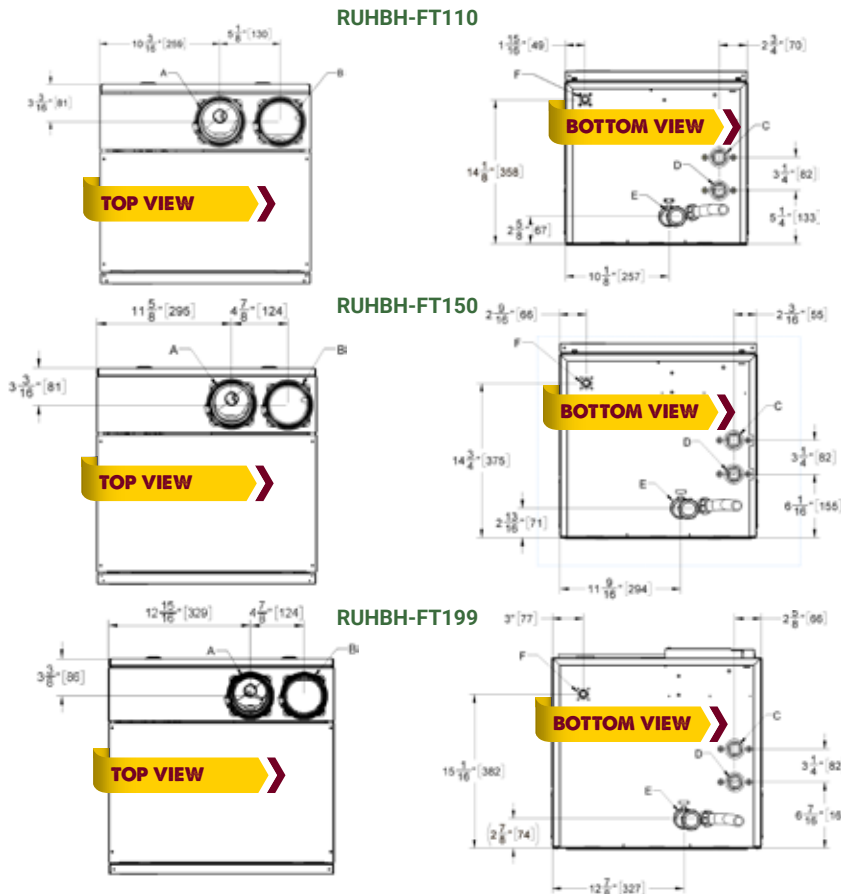


Load Settings



Error Screen

Dimensions



PIPING CONNECTIONS

MODEL NO.		RUHBH-FT110	RUHBH-FT150	RUHBH-FT199
A	Flue Outlet	3" Schedule 40 or 3" PP (80mm)		
B	Combustion Air Inlet	3" Schedule 40 or 3" PP (80mm)		
C	Return Water Inlet (Tepid)	1" NPT-M		
D	Supply Water Outlet (Hot)	1" NPT-M		
E	Condensate Outlet	3/4" Hose		
F	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 acces to water connections)
Right Side	1"	4" (allow acces 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
CSA Input (NG or Propane) – MBH	16.9-110	23-150	30.6-199
CSA Input (NG or Propane) – kW	5-32.2	6.7-44	8.8-58.3
CSA Output (NG or Propane) – MBH	16.2-101.5	22-138.5	29.2-183.7
CSA Output (NG or Propane) – kW	4.74-29.8	6.5-40.6	8.6-53.8
AFUE	95%	95%	95%
Min. Gas Supply Pressure (NG or Propane) – inch w.c.	4	4	4
Max. Gas Supply Pressure (NG or Propane) – inch w.c.	14	14	14
Ambient Temperature – Low (°F/°C)	32/0	32/0	32/0
Ambient Temperature – High (°F/°C)	122/50	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%	90%
Min. Water Temperature (°F/°C)	34/1	34/1	34/1
Max. Water Temperature – (Electronic High Limit) (°F/°C)	190/88	190/88	190/88
Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)	40/22	40/22	40/22
Max. Water Temperature Lockout Limit (°F/°C)	201/94	201/94	201/94
Power (120Vac/60Hz) at Full Fire – watts (w/o pumps)	90	79	90
Weight (Empty) – lbs/kg	67/30.4	78/35.4	88/39.9
Pressure Vessel Water Content – USG/Liters	1.88/7.12	2.7/10.56	3.51/13.29
Max. Boiler Flow Rate – USgpm	14	19	25
Min. Boiler Flow Rate – USgpm	2	3	4
Max. Operating Water Pressure – psig	50	50	50
Min. Operating Water Pressure – psig	8	8	8
Relief Valve Pressure – psig	30	30	30
Approved Installation Altitude – ASL	0-12,000'	0-12,000'	0-12,000'
Ultra Low NOx	Meets 14 ng/J NOx requirements – SCAQMD Rule 1146.2 compliant		

ACCESSORIES

FLOOR STAND	PARTS KIT
<p>Part No. P-267</p> 	<p>Part No. P-1632</p> 

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
FOR TAX
CREDITS**

