

## Ruud® FT™ Series Super High Efficiency Condensing Gas Boilers

### Key Features

- Touchscreen display – Full-color, intuitive touchscreen for easy setup and maintenance
- 4-Zone pump control with load pairing – Controls zone pumps via touchscreen while assigning heating loads for precise, efficient comfort
- 95% AFUE and ENERGY STAR® certified for super high efficiency
- Durable design – ASME-rated 439 stainless steel fire tube heat exchanger
- 2 Universal shared platform parts – fan, gas valve, are shared across models for streamlined maintenance.
- Cascade capability – Connect up to 4 units for increased capacity
- 6.5:1 turndown ratio delivers precise heating control
- Extended venting lengths up to 200 ft (2") and 480 ft (3")
- Flexible venting materials – Compatible with PVC, CPVC, and PP
- Outdoor reset control automatically adjusts water temperature based on outdoor conditions
- Moisture-Free Zone (MFZ) Technology protects components from corrosion
- Advanced safety features - CSA/UL approved low water cutoff and manual reset high limit
- Reverse flow detection – Detects and alerts if water is flowing in the wrong direction
- Seamlessly connects with Rheem indirect tanks for consistent domestic hot water

### Warranty

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



### 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		

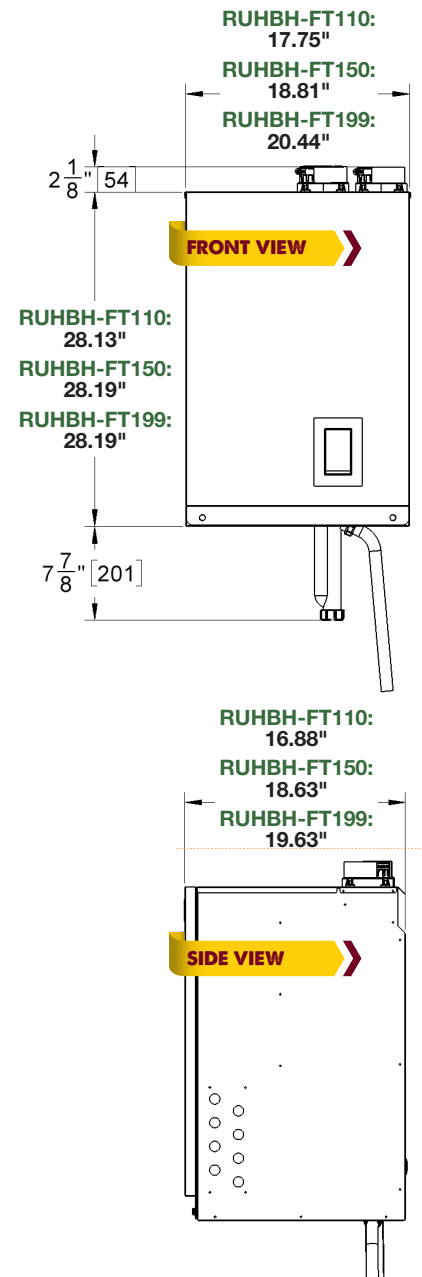
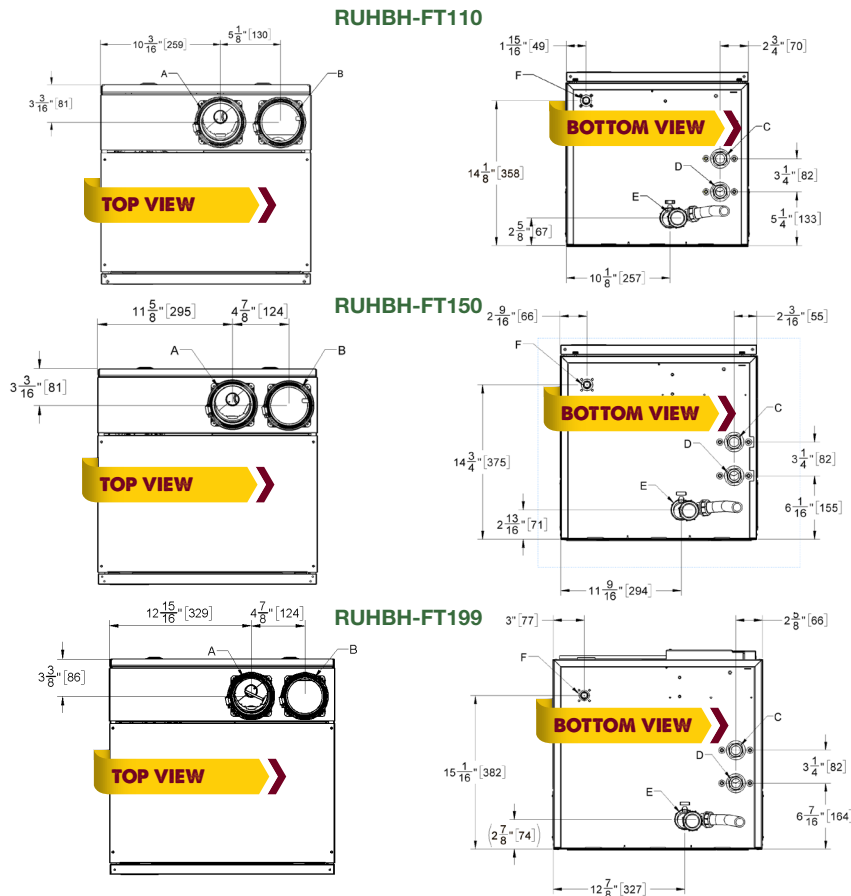
RUHBH-FT110  
RUHBH-FT150  
RUHBH-FT199



These products meet a stringent set of our internally defined sustainability standards.

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)

## Dimensions



PIPING CONNECTIONS			
MODEL NO.		RUHBH-FT110	RUHBH-FT150
A	Flue Outlet	3" Schedule 40 or 3" PPs (80mm)	
B	Combustion Air Inlet	3" Schedule 40 or 3" PPs (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	

## Accessories

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

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