

Ruud FT™ & FTS™ Series Super High Efficiency Condensing Gas Boilers

FULL COLOR INTUITIVE TOUCHSCREEN DISPLAY

DELIVERING DURABILITY

YOUR COMFORT, PERFECTLY CONTROLLED

RELY ON RUUD™

ENERGY STAR

High Performance Boilers with Advanced Controls

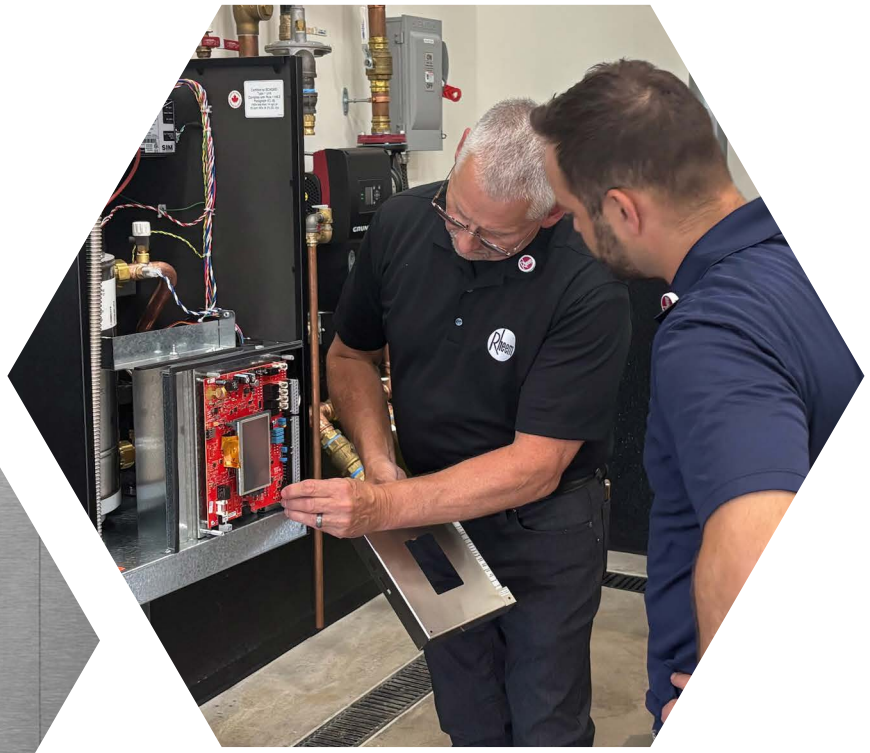
Ruud FT™ Series wall-hung boilers deliver super high efficiency performance with advanced controls. The FTS Series extends the FT platform with side-mounted supply and return connections for easier installation and service. Featuring up to 96% thermal efficiency, up to 96% AFUE (model dependent), capacities from 16.9 to 399 MBH, turndown ratios up to 10:1, integrated 4-zone control, scalable cascading, an intuitive touchscreen interface, and BACnet® integration (select models), FT Series boilers are ideal for residential and light commercial applications.

Intuitive Touchscreen Controls:

- **Easy Setup & Maintenance:** Simplfies setup, diagnostics, maintenance and troubleshooting
- **Integrated 4-Zone 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 Error Logs:** Access to data for troubleshooting
- **USB Port:** Enables fast backups and software updates
- **Scalable Cascading Capability:** Controls up to 4 boilers (FT110, FT150, FT199) and up to 24 boilers (FTS85, FTS115, FTS160, FTS199, FT260, FT399)

Maximum Performance:

- **96% Thermal Efficiency** (FT399), **96% AFUE** (FTS85), **95% AFUE** (FT110, FT150, FT199, FT260, FTS115, FTS160, FTS199)
- **ENERGY STAR® Certified**
- **Stainless Steel Fire Tube Heat Exchanger:** ASME rated for safety and quality; efficiently transfers heat from combustion gases to water
- **Advanced 10:1 Turndown Ratio** (FT260, FT399) **8:1 Turndown Ratio** (FTS85, FTS115, FTS160, FTS199) and **6.6:1 Turndown Ratio** (FT110, FT150, FT199) increases boiler efficiency and life





Built-In Features for Easier Installation & Service

Built-In Features:

- **Industry-Leading High-Altitude Installation Approval:** Up to 12,000 Feet ASL[1]
- **Install Flexibility:** FT models feature bottom supply and return connections, while FTS models feature **Industry-Exclusive side-mounted supply and return piping connections[2]** for simplified piping and easier serviceability.
- **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
- **Approved Safety Limits:** Built-in certified **low water cutoff** and **high-limited protection**
- Seamlessly operates with **Indirect Tanks** for domestic hot water and **Buffer Tanks** to reduce short cycling for improved system efficiency

Easy to Install & Service:

- **Shared Parts Platform:** Universal touchscreen on all models with common fan and gas valve components across most models. FT260 and FT399 share a common fan platform
- **Combined Venting Lengths:** up to 200 ft (2"), 480 ft (3"), 400 ft (4")[3]
- **PVC/CPVC/PP** approved venting materials
- **Fuel Conversion Kits Included:** (FT110, FT150, FT199, FTS85, FTS115, FTS160, FTS199)
- **Wall Mounting Bracket Included:** Optional floor stand sold separately.
- **BACnet® Interface:** Standard on FT399; optional on FT260, FTS85, FTS115, FTS160, and FTS199

Warranty:

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





[1]Based on comparison of maximum published high-altitude installation ratings for major U.S. residential condensing boiler brands.
[2]Based on comparison of publicly available specifications for residential wall-hung boiler models marketed in the United States and Canada.
[3]See Installation Manual for approved vent lengths by model.

Control at Your Finger Tips

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



Home Screen *Load Settings* *Error Screen*

Built-In Altimeter for High Altitude Installations

Approved for installation up to 12,000 feet, above sea level (ASL), all Ruud® FT™ and FTS™ Series feature a built-in altimeter that automatically detects and adjusts for elevation, eliminating manual setup and simplifying installations across a wide range of applications.



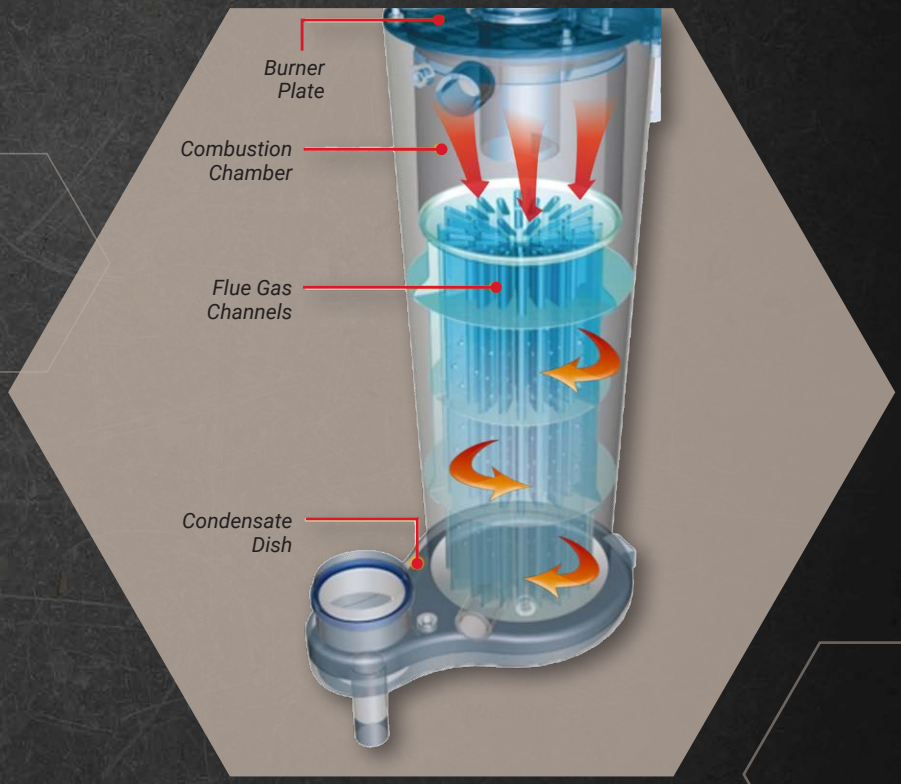
Industry-Leading High-Altitude Installation Approval: Up to 12,000 Feet ASL[1]

[1]Based on comparison of maximum published high-altitude installation ratings for major U.S. residential condensing boiler brands.

Exclusive Moisture-Free Zone™ Technology

Ruud's exclusive **Moisture-Free Zone (MFZ) Technology with Ultra-Low Purge Technology** helps protect FT™ and FTS™ Series boilers from the damaging effects of residual moisture and latent heat.

At the end of each heating cycle, MFZ automatically purges the heat exchanger, reducing condensate buildup to help minimize corrosion, heat loss, and premature wear on critical combustion components. By helping extend heat exchanger, fan, and motor life, MFZ enhances durability, improves reliability, and supports long-term boiler **performance.**



FTS Models: More Installation Options with Side Connections

Ruud® FTS™ models (FTS85, FTS115, FTS160 and FTS199) feature side-mounted supply and return connections for greater installation flexibility and simplified piping. This design improves accessibility, streamlines installation, and makes servicing easier.



[2]Based on comparison of publicly available specifications for residential wall-hung boiler models marketed in the United States and Canada.

Key Unique Features & Interior Components

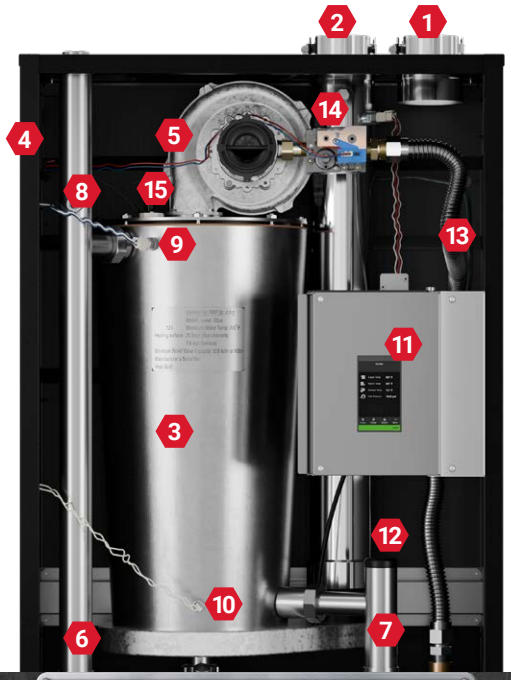
Key Unique Features

MODEL NO.	RUUD® FT™ SERIES					RUUD® FTS™ SERIES			
	RUHBH-FT110	RUHBH-FT150	RUHBH-FT199	RUHBH-FT260	RUHBH-FT399	RUHBH-FTS85	RUHBH-FTS115	RUHBH-FTS160	RUHBH-FTS199
96% AFUE	–	–	–	–	–	✓	–	–	–
95% AFUE	✓	✓	✓	✓	✓	–	✓	✓	✓
96% Thermal Efficiency	–	–	–	–	✓	–	–	–	–
MBH Capacity Range	16.9-110K	23-150K	30.6-199K	26-260K	40-399K	10.6-85K	14-115K	20-160K	32-199K
Turndown Ratio	6.5:1	6.5:1	6.5:1	10:1	10:1	8:1	8:1	8:1	8:1
Cascading Capability	up to 4 units	up to 4 units	up to 4 units	up to 24 units	up to 24 units	up to 24 units	up to 24 units	up to 24 units	up to 24 units
Bottom-Mounted Supply & Return Connections	✓	✓	✓	✓	✓	–	–	–	–
Side-Mounted Supply & Return Connections	–	–	–	–	–	✓	✓	✓	✓
Fuel Conversion Kits Included	✓	✓	✓	✓	–	✓	✓	✓	✓
BACnet® Interface Option Available	–	–	–	✓	✓	✓	✓	✓	✓
Suited for Residential, New Builds & Retrofits	✓	✓	✓	✓	✓	✓	✓	✓	✓
Suited for Light Commercial	–	–	–	✓	✓	✓	✓	✓	✓

FT™ SERIES

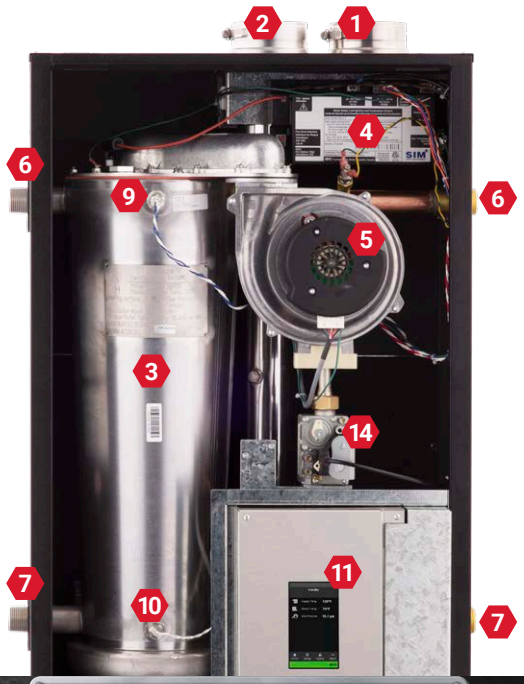


RUHBH-FT110, RUHBH-FT150, RUHBH-FT199



RUHBH-FT260, RUHBH-FT399

FTS™ SERIES



RUHBH-FTS85, RUHBH-FTS115, RUHBH-FTS160, RUHBH-FTS199

1. Intake Duct
2. Exhaust Duct
3. Stainless Steel Fire Tube Heat Exchanger
4. Ignition Module
5. Fan
6. Supply Pipe
7. Return Pipe
8. Low Water Cutoff Probe
9. Supply Temp. Sensor
10. Return Temp. Sensor
11. Full Color Intuitive Touchscreen Display
12. Water Pressure Sensor
13. Gas Line
14. Gas Valve
15. Ignitor
16. Manual Air Vent

Technical Information

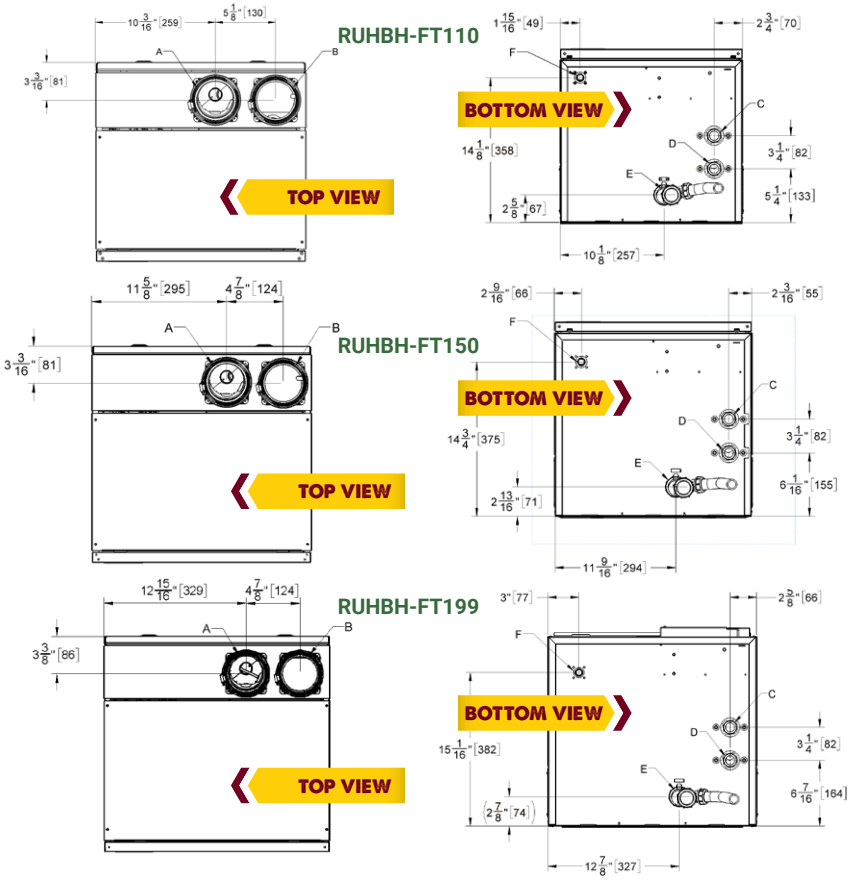


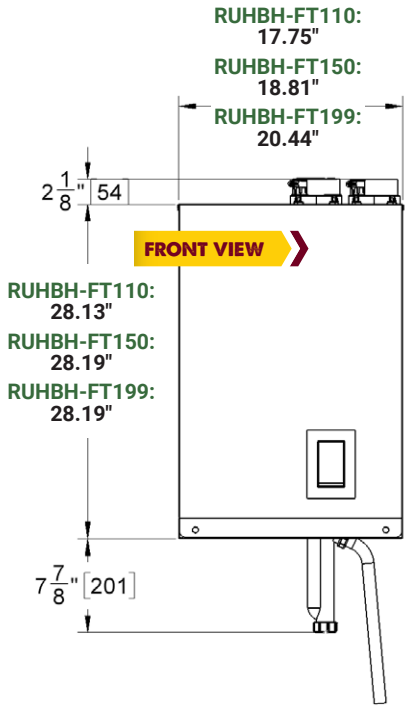


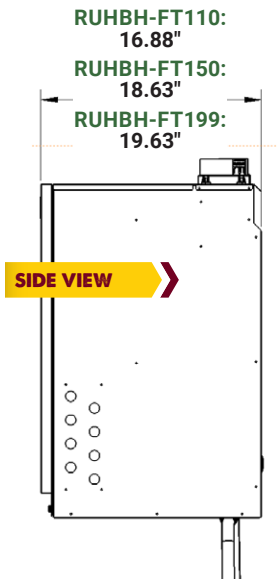
Specifications

MODEL NO.	RUUD® FT™ SERIES					RUUD® FTS™ SERIES			
	RUHBH-FT110	RUHBH-FT150	RUHBH-FT199	RUHBH-FT260	RUHBH-FT399	RUHBH-FTS85	RUHBH-FTS115	RUHBH-FTS160	RUHBH-FTS199
CSA Input (NG or Propane) – MBH	16.9-110	23-150	30.6-199	26-260	40-399	10.6-85	14-115	20-160	32-199
CSA Input (NG or Propane) – kW	5-32.2	6.7-44	8.8-58.3	7.6-76.2	11.7-117	3.10-24.9	4.10-33.7	5.86-46.9	9.37-58.3
CSA Output (NG or Propane) – MBH	16.2-101.5	22-138.5	29.2-183.7	24.9-239	38.4-383	10.1-79	13.3-109	19.0-147	30-181.3
CSA Output (NG or Propane) – kW	4.74-29.8	6.5-40.6	8.6-53.8	7.31-70	11.2-112	2.96-23	3.90-32	5.57-43.1	8.8-53.1
AFUE* or CE/TE**	95%*	95%*	95%*	95%*	96%**	96%*	95%*	95%*	95 %*
Min. Gas Supply Pressure (NG or Propane) – inch w.c.	4	4	4	4	4	4	4	4	4
Max. Gas Supply Pressure (NG or Propane) – inch w.c.	14	14	14	14	14	14	14	14	14
Ambient Temperature – Low (°F/°C)	32/0	32/0	32/0	32/0	32/0	32/0	32/0	32/0	32/0
Ambient Temperature – High (°F/°C)	122/50	122/50	122/50	122/50	122/50	122/50	122/50	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%	90%	90%	90%	90%	90%	90%	90%
Min. Water Temperature (°F/°C)	34/1	34/1	34/1	34/1	34/1	34/1	34/1	34/1	34/1
Max. Water Temperature – (Electronic High Limit) (°F/°C)	190/88	190/88	190/88	190/88	190/88	190/88	190/88	190/88	190/88
Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)	40/22	40/22	40/22	40/22	40/22	40/22	40/22	40/22	40/22
Max. Water Temperature Lockout Limit (°F/°C)	201/94	201/94	201/94	201/94	201/94	201/94	201/94	201/94	201/94
Power (120Vac/60Hz) at Full Fire – watts (w/o pumps)	90	79	90	127	190	54	72	82	100
Weight (Empty) – lbs/kg	67/30.4	78/35.4	88/39.9	162/74	240/110	85/39	85/39	102/46.3	152/69
Pressure Vessel Water Content – USG/Liters	1.88/7.12	2.8/10.56	3.51/13.29	4.64/17.56	6.66/25.21	2.47/9.35	2.47/9.35	1.72/6.51	5.09/19.3
Max. Boiler Flow Rate – USgpm	14	19	25	25	45	14	14	19	22
Min. Boiler Flow Rate – USgpm	2	3	4	6	20	2	2	4	6
Max. Operating Water Pressure – psig	50	50	50	30	80	30	30	30	30
Min. Operating Water Pressure – psig	8	8	8	8	8	8	8	8	8
Supplied Pressure Relief Valve – psig	30	30	30	30	30	30	30	30	30
Approved Installation Altitude – ASL	0-12,000'	0-12,000'	0-12,000'	0-12,000'	0-12,000'	0-12,000'	0-12,000'	0-12,000'	0-12,000'
Ultra Low NOx	Meets 14 ng/J NOx requirements – SCAQMD Rule 1146.2 compliant								

Dimensions RUHBH-FT110, RUHBH-FT150 & RUHBH-FT199







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		

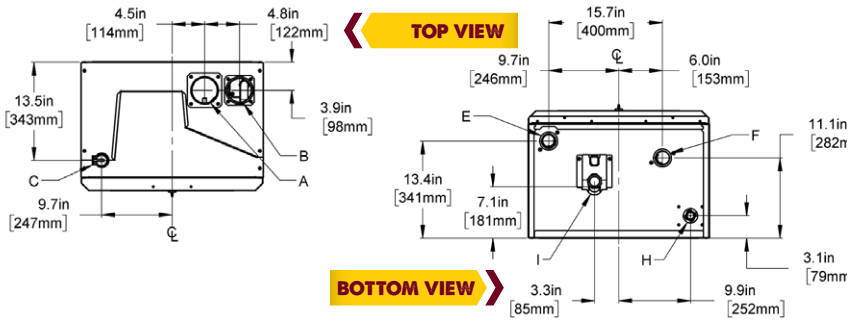
VENTING	MAXIMUM EQUIVALENT LENGTHS		
PVC, CPVC, RIGID PP	RUHBH-FT110	RUHBH-FT150	RUHBH-FT199
2"	100'	50'	Not Permitted
3"	240'	170'	100'
90° Vent Elbow	Equivalent to 8'		
90° Long Sweep Elbow	Equivalent to 5'		
45° Elbow	Equivalent to 3'		
PP 87-90° Elbows	Equivalent to 8'		
2" Stainless Steel Sidewall 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.	45' (max.) Lineal x 2 = Equiv.	30' (max.) Lineal x 3.33 = Equiv.

CLEARANCE FROM BOILER CABINET		
SURFACE	MIN. DISTANCE*	RECOMMENDED DISTANCE**
Front	2"	24"
Rear Flue Connection	0"	0"
Left Side	0"	4" (to non-combustibles)
Right Side	1"	4" (for electric and gas if required)
Top	2"	6" (for vent connection)
Bottom	0" (clearance for pipes)	12" (for condensate trap and piping)

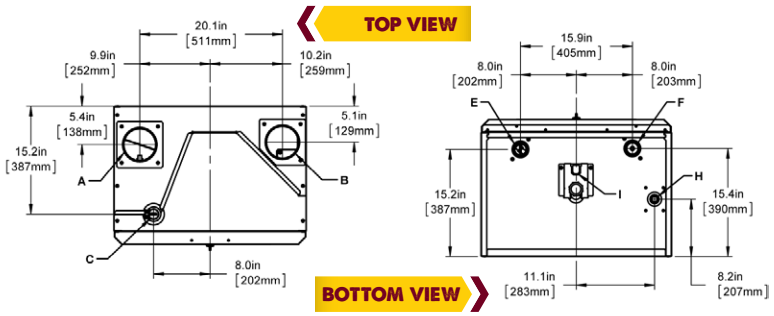
*From Combustible Surfaces **For Installation & Service

Dimensions RUHBH-FT260 & RUHBH-FT399

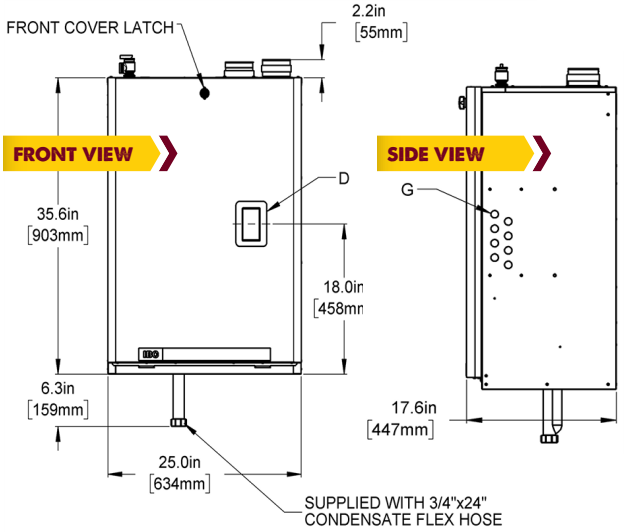
RUHBH-FT260



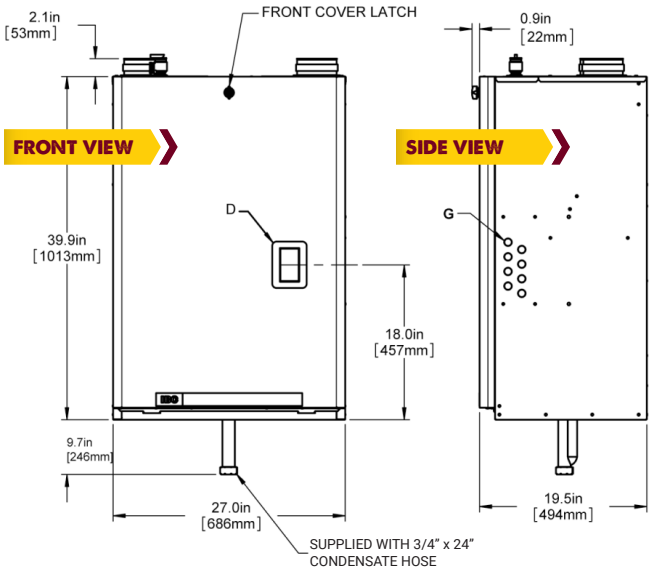
RUHBH-FT399



RUHBH-FT260



RUHBH-FT399



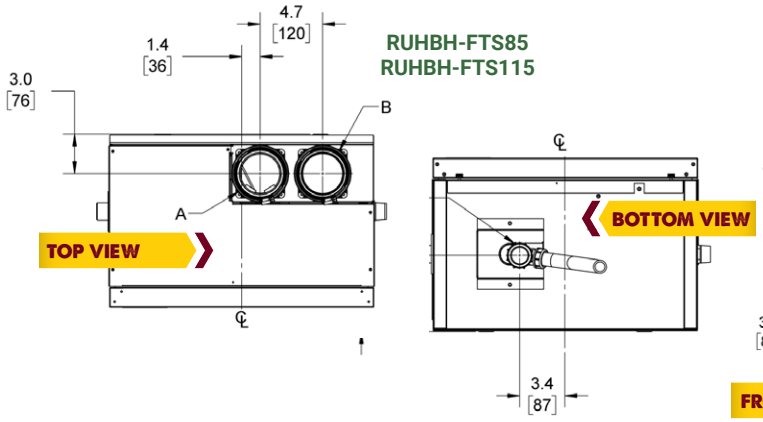
PIPING CONNECTIONS			
MODEL NO.		RUHBH-FT260	RUHBH-FT399
A	Flue Outlet	3" Schedule 40	4" Schedule 40
B	Combustion Air Inlet	3" Schedule 40	4" Schedule 40
C	Relief Valve & Air Vent	3/4" NPT-F	
D	Touchscreen Display	2-1/4" x 4	
E	Supply Water Outlet (Hot)	1-1/2" NPT - M	
F	Return Water Inlet (Tepid)	1-1/2" NPT - M	
G	Knock-Outs (8)	1-1/2"	
H	Gas Inlet	3/4" NPT-F	
I	Condensate Outlet	3/4" Hose	

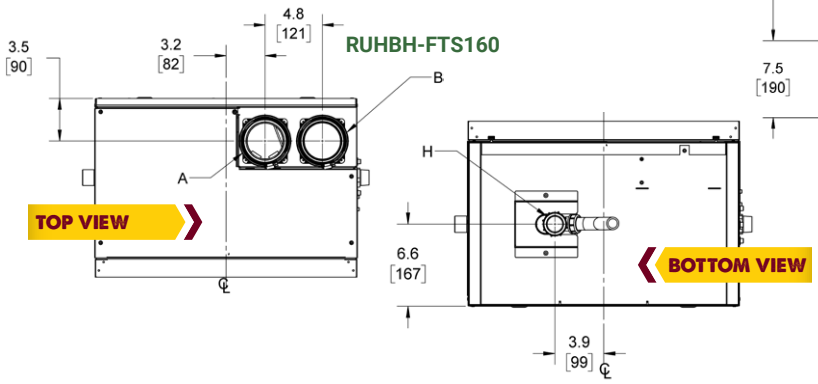
VENTING		
PVC, CPVC, RIGID PP	RUHBH-FT260	RUHBH-FT399
3"	200'	–
4"	–	200'
90° Vent Elbow	Equivalent to 8'	
90° Long Sweep Elbow	Equivalent to 5'	
45° Elbow	Equivalent to 3'	
PP 87-90° Elbows	Equivalent to 8'	
3" Stainless Steel Sidewall Terminal - Exhaust Vent (P-257)	Exhaust: Equivalent to 20' Intake: Equivalent to 0'	Exhaust: Equivalent to 65' Intake: Equivalent to 0'
3" CPVC (P-257 adaptor)	–	Allow 3.2' equivalent for each 1'
Flexible PP 3" Flexible	60' (max.) lineal x 3.33 = equiv.	–
Flexible PP 4" Flexible	–	160' max. using 1.2 x for equiv. length

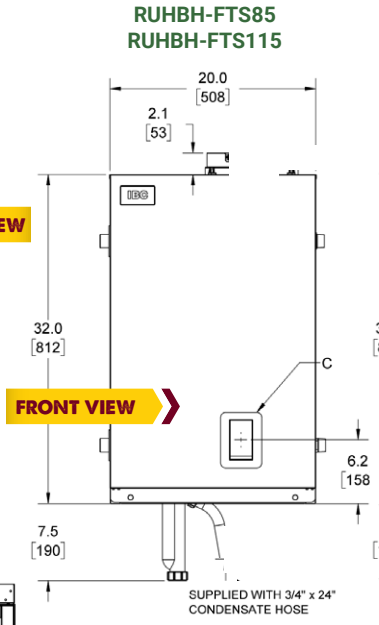
CLEARANCE FROM BOILER CABINET				
	RUHBH-FT260		RUHBH-FT399	
SURFACE	MIN. DISTANCE*	RECOMMENDED DISTANCE**	MIN. DISTANCE*	RECOMMENDED DISTANCE**
Front	2"	24"	2"	24"
Rear Flue Connection	0"	0"	0"	0"
Left Side	1"	0" (to non-combustibles)	1"	0" (to non-combustibles)
Right Side	1"	4" (for electric and gas if required)	1"	4" (for electric and gas if required)
Top	2"	6" (for vent connection)	12"	12" (for vent connection)
Bottom	–	12" (for condensate trap and piping)	–	12" (for condensate trap and piping)

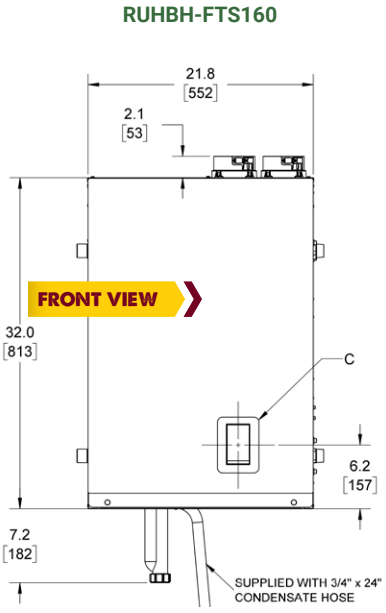
*From Combustible Surfaces **For Installation & Service

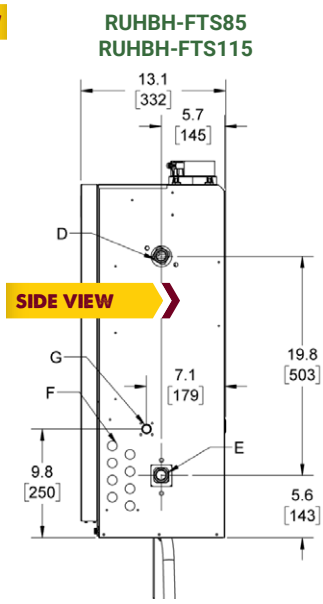
Dimensions RUHBH-FTS85, RUHBH-FTS115 & RUHBH-FTS160

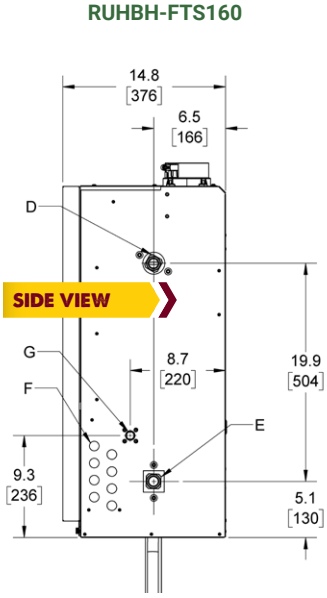










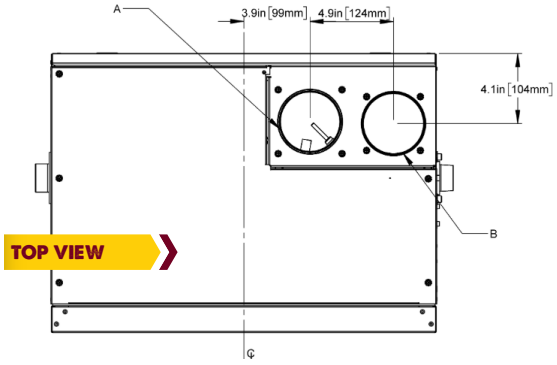


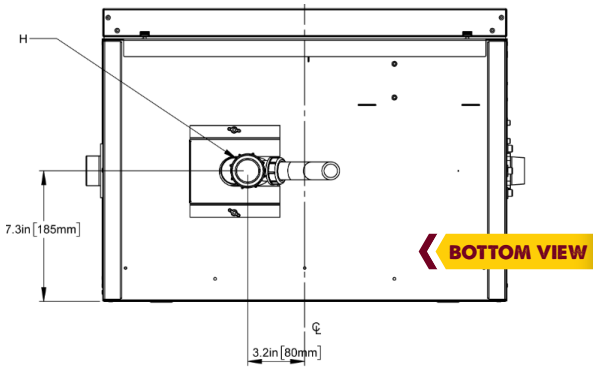
PIPING CONNECTIONS				
MODEL NO.		RUHBH-FTS85	RUHBH-FTS115	RUHBH-FTS160
A	Flue Outlet	3" Schedule 40 or 3" PP (80mm)		
B	Combustion Air Inlet	3" Schedule 40 or 3" PP (80mm)		
C	LCD Display	2-1/4" x 4"		
D	Supply Water Outlet (Hot)	1" NPT-M		
E	Return Water Inlet (Tepid)	1" NPT-M		
F	Knock-Outs (8)	1/2"		
G	Gas Inlet	1/2" NPT-F		
H	Condensate Outlet	3/4" Hose		

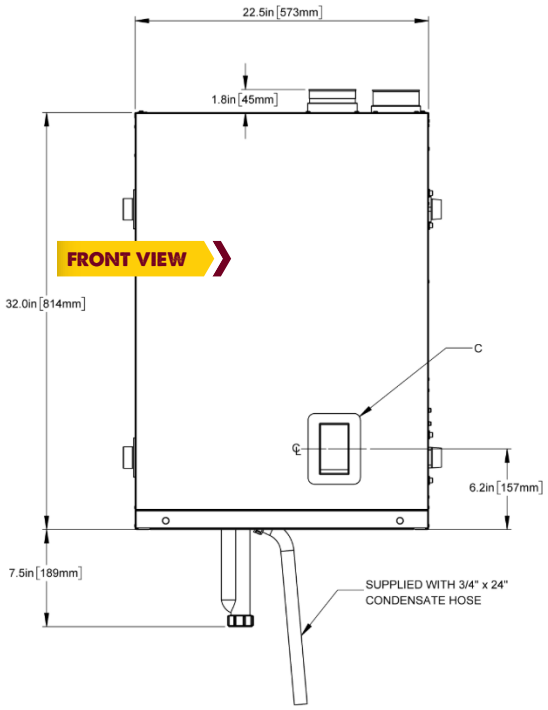
VENTING	MAXIMUM EQUIVALENT LENGTHS		
PVC, CPVC, RIGID PP	RUHBH-FTS85	RUHBH-FTS115	RUHBH-FTS160
2"	100'		
3"	240'		
90° Vent Elbow	Equivalent to 8'		
90° Long Sweep Elbow	Equivalent to 5'		
45° Elbow	Equivalent to 3'		
PP 87-90° Elbows	Equivalent to 8'		
2" Stainless Steel Sidewall Terminal - Exhaust Vent (P-256)	Allow 20' Equivalent of 2" sched. 40		
3" Stainless Steel Sidewall Terminal - Exhaust Vent (P-257)	Allow 20' Equivalent of 3" sched. 40		
Flexible PP 3" Flexible	45' (max.) Lineal x 1.2 = Equiv.		

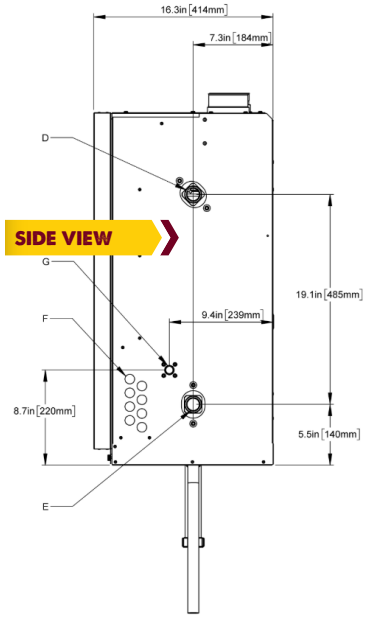
CLEARANCE FROM BOILER CABINET		
SURFACE	MIN. DISTANCE*	RECOMMENDED DISTANCE**
Front	2"	24"
Rear Flue Connection	0"	0"
Left Side	0"	4" (to non-combustibles)
Right Side	1"	4" (for electric and gas if required)
Top	2"	6" (for vent connection)
Bottom	0" (clearance for pipes)	12" (for condensate trap and piping)

Dimensions RUHBH-FTS199









PIPING CONNECTIONS		
MODEL NO.		RUHBH-FTS199
A	Exhaust Outlet	3" Schedule 40 or 4" PP (101.6mm)
B	Combustion Air Inlet	3" Schedule 40 or 3" PP (80mm)
C	LCD Touchscreen Display	2-1/4" x 4"
D	Supply Water Outlet (Hot)	1-1/4" NPT-M
E	Return Water Inlet (Tepid)	1-1/4" NPT-M
F	Knock-Outs (8)	1/2"
G	Gas Inlet	1/2" NPT-F
H	Condensate Outlet	3/4" Hose

VENTING	MAXIMUM EQUIVALENT LENGTHS
PVC, CPVC, RIGID PP	RUHBH-FTS199
3"	150'
90° Vent Elbow	Equivalent to 8'
90° Long Sweep Elbow	Equivalent to 5'
45° Elbow	Equivalent to 3'
3" Stainless Steel Sidewall Terminal - Exhaust Vent (P-257)	Allow 20' Equivalent of 3" sched. 40
Flexible PP 3" Flexible	30' (max.) Lineal x 3.33 = Equiv.

CLEARANCE FROM BOILER CABINET		
SURFACE	MIN. DISTANCE*	RECOMMENDED DISTANCE**
Front	2"	24"
Rear Flue Connection	0"	0"
Left Side	0"	0" (to non-combustibles)
Right Side	1"	4" (for electric and gas if required)
Top	12"	12" (for vent connection)
Bottom	12" (clearance for pipes)	12" (for condensate trap and piping)

*From Combustible Surfaces **For Installation & Service

*From Combustible Surfaces **For Installation & Service

Ruud® FT™ & FTS™ Wall-Hung Boiler Portfolio



RUHBH-FTS85
RUHBH-FTS115

RUHBH-FT260

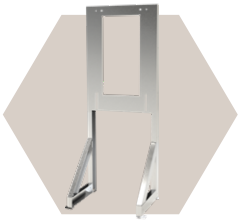
RUHBH-FT110, RUHBH-FT150
RUHBH-FT199

RUHBH-FT399

RUHBH-FTS160
RUHBH-FTS199

Accessories

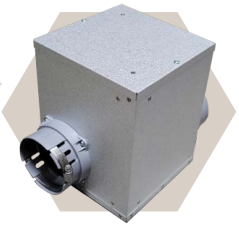
RUHBH-FT110, RUHBH-FT150, RUHBH-FT199, RUHBH-FTS85, RUHBH-FTS115, RUHBH-FTS160 & RUHBH-FTS199



P-267 Floor Stand



P-429 Parts Kit



P-357 Air Filter Kit
P-381 Air Filter Refills (3 pk)

RUHBH-FT260 & RUHBH-FT399



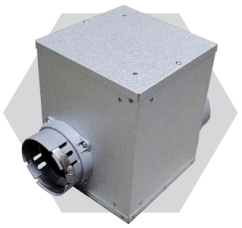
P-266 Floor Stand



P-430 Parts Kit



P-273 Piping Kit



P-357 Air Filter Kit
P-381 Air Filter Refills (3 pk)



P-9126 Condensate Tank
(RHBH-FT399 Multiples Only)
P-9127 Condensate
Replacement Media

SCAN TO LEARN MORE
or visit **Ruud.com/Boilers**

Contact Us

Customer Service, Warranty and Parts
800.621.5622

Technical Service
833.212.9276

Plumber Support Group
866.339.2388

PFAS

Copyright © 2026 Ruud Manufacturing Company. All rights reserved.

10/26 | Form No. RU-FT-B-BRO-3