RUHBH-FTS Boilers

RELY ON RUUD™

Ruud® FTS™ Series Super High Efficiency Condensing Gas Boilers

Key Features

- Intuitive touchscreen display - controls setup, maintenance and troubleshooting
- 4-Zone control – Manages up to 4 heating zones with individual temperature settings, no external controllers needed
- 96% AFUE (FTS85), 95% AFUE (FTS115, FTS160, FTS199)
- ENERGY STAR® certified
- Durable design – ASME rated 439 stainless steel fire tube heat exchanger
- Shared Parts Platform – Universal touchscreen with two shared components (fan & gas valve) for streamlined maintenance
- Cascade capability – Controls up to 24 boilers
- 8:1 Turndown Ratio
- Combined venting lengths up to 200 ft (2"), 480 ft (3"), 400 ft (4")
- Flexible venting materials – Compatible with PVC, CPVC, and PP
- Industry-Leading high-altitude approval for installation up to 12,000 FT ASL[1]
- Industry-Exclusive side-mounted supply and return piping connections[2], designed to simplify installation and service access
- Outdoor reset control automatically adjusts water temperature based on outdoor conditions
- Moisture-Free Zone (MFZ) technology protects components from corrosion
- Built-in 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 operates with Ruud indirect tanks for consistent domestic hot water
- Wall-Mounting Bracket Included – Optional floor stand sold separately
- BACnet interface option available

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.



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

AHRI CERTIFIED www.ahridirectory.org · Intertek · ASME H

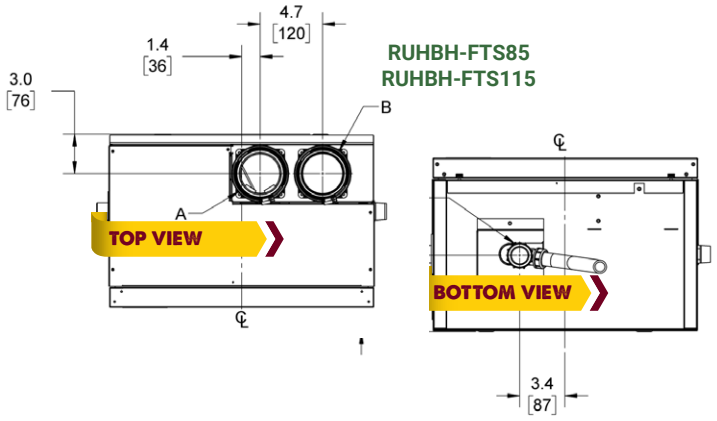
Specifications

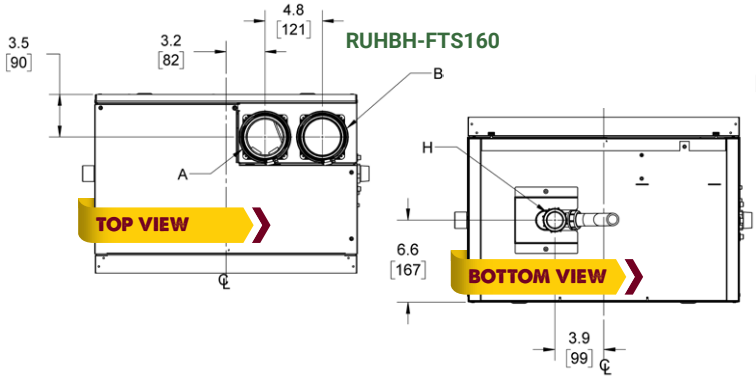
MODEL NO.	RUHBH-FTS85	RUHBH-FTS115	RUHBH-FTS160	RUHBH-FTS199
CSA Input (NG or Propane) – MBH	10.6-85	14-115	20-160	32-199
CSA Input (NG or Propane) – kW	3.10-24.9	4.10-33.7	5.86-46.9	9.37-58.3
CSA Output (NG or Propane) – MBH	10.1-79	13.3-109	19.0-147	30-181.3
CSA Output (NG or Propane) – kW	2.96-23	3.90-32	5.57-43.1	8.8-53.1
AFUE* or CE/TE**	96%*	95%*	95%*	95%*
Min. Gas Supply Pressure (NG or Propane) – inch w.c.	4	4	4	4
Max. Gas Supply Pressure (NG or Propane) – inch w.c.	14	14	14	14
Ambient Temperature – Low (°F/°C)	32/0	32/0	32/0	32/0
Ambient Temperature – High (°F/°C)	122/50	122/50	122/50	122/50
Max. Relative Humidity (Non-Condensing)	90%	90%	90%	90%
Min. Water Temperature (°F/°C)	34/1	34/1	34/1	34/1
Max. Water Temperature – (Electronic High Limit) (°F/°C)	190/88	190/88	190/88	190/88
Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)	40/22	40/22	40/22	40/22
Max. Water Temperature Lockout Limit (°F/°C)	201/94	201/94	201/94	201/94
Power (120Vac/60Hz) at Full Fire – watts (w/o pumps)	54	72	82	100
Weight (Empty) – lbs/kg	85/39	85/39	102/46.3	152/69
Pressure Vessel Water Content – USG/Liters	2.47/9.35	2.47/9.35	1.72/6.51	5.09/19.3
Max. Boiler Flow Rate – USgpm	14	14	19	22
Min. Boiler Flow Rate – USgpm	2	2	4	6
Max. Operating Water Pressure – psig	30	30	30	30
Min. Operating Water Pressure – psig	8	8	8	8
Supplied Pressure Relief Valve – psig	30	30	30	30
Approved Installation Altitude – ASL	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			

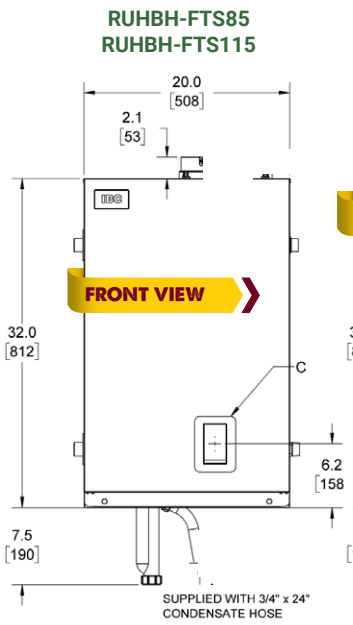
RUHBH-FTS Boilers

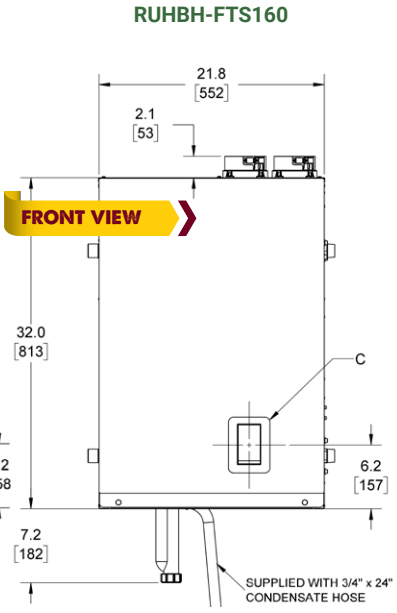
Dimensions

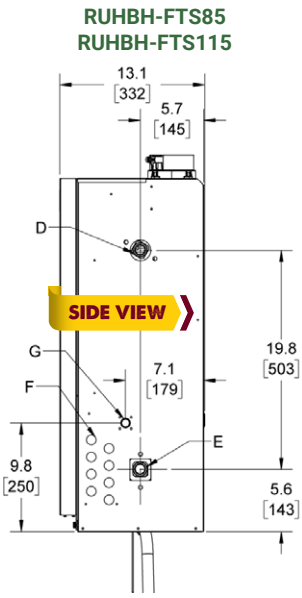
RUHBH-FTS85, RUHBH-FTS115 & RUHBH-FTS160

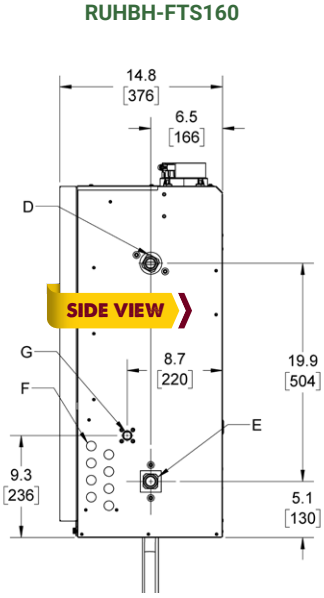












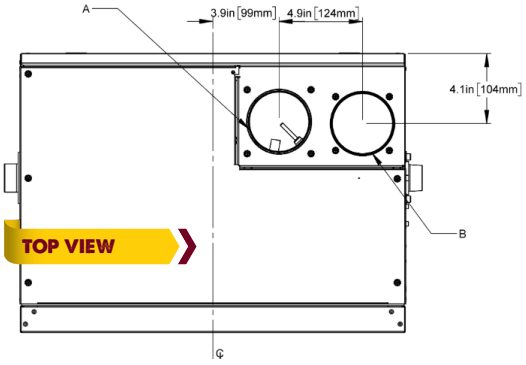
PIPING CONNECTIONS				
MODEL NO.		RUHBH-FTS85	RUHBH-FTS115	RUHBH-FTS160
A	Flue Outlet	3" Schedule 40 or 3" PP (80mm)		
B	Combustion Air Inlet	3" Schedule 40 or 3" PP (80mm)		
C	LCD Display	2-1/4" x 4"		
D	Supply Water Outlet (Hot)	1" NPT-M		
E	Return Water Inlet (Tepid)	1" NPT-M		
F	Knock-Outs (8)	1/2"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

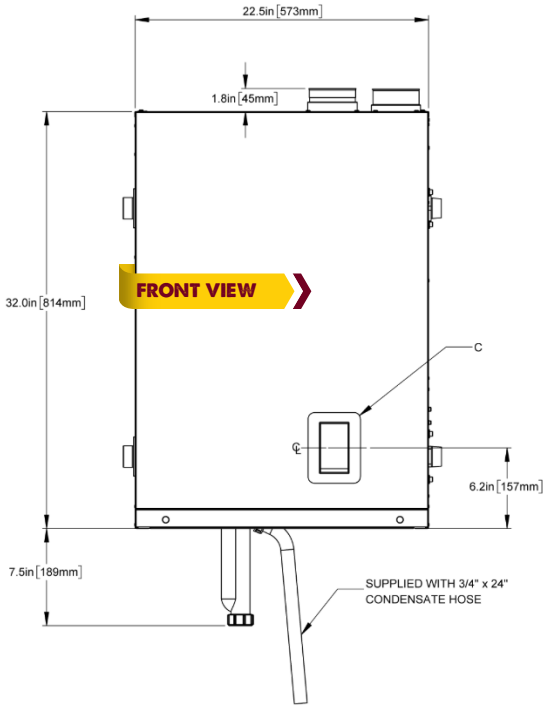
VENTING	MAXIMUM EQUIVALENT LENGTHS		
PVC, CPVC, RIGID PP	RUHBH-FTS85	RUHBH-FTS115	RUHBH-FTS160
2"	100'		
3"	240'		
90° Vent Elbow	Equivalent to 8'		
90° Long Sweep Elbow	Equivalent to 5'		
45° Elbow	Equivalent to 3'		
PP 87-90° Elbows	Equivalent to 8'		
2" Stainless Steel Sidewall Terminal - Exhaust 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.		

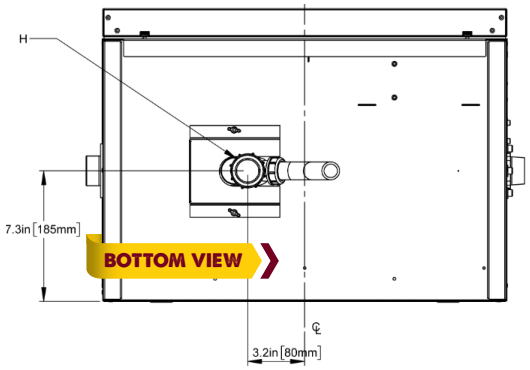
CLEARANCE FROM BOILER CABINET		
SURFACE	MIN. DISTANCE*	RECOMMENDED DISTANCE**
Front	2"	24"
Rear Flue Connection	0"	0"
Left Side	0"	4" (to non-combustibles)
Right Side	1"	4" (for electric and gas if required)
Top	2"	6" (for vent connection)
Bottom	0" (clearance for pipes)	12" (for condensate trap and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

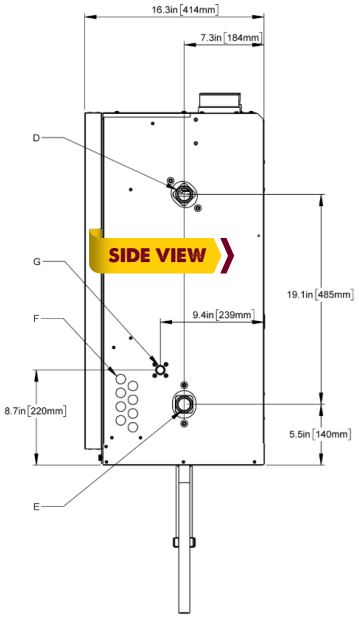
RUHBH-FTS Boilers

Dimensions
RUHBH-FTS199









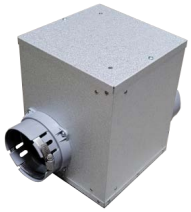
PIPING CONNECTIONS		
MODEL NO.		RUHBH-FTS199
A	Exhaust Outlet	3" Schedule 40 or 4" PP (101.6mm)
B	Combustion Air Inlet	3" Schedule 40 or 3" PP (80mm)
C	LCD Touchscreen Display	2-1/4" x 4"
D	Supply Water Outlet (Hot)	1-1/4" NPT-M
E	Return Water Inlet (Tepid)	1-1/4" NPT-M
F	Knock-Outs (8)	1/2"
G	Gas Inlet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

Accessories
RUHBH-FTS85, RUHBH-FTS115, RUHBH-FTS160 & RUHBH-FTS199

FLOOR STAND	PARTS KIT	AIR FILTER KIT
Part No. P-267	Part No. P-429	Part No. P-357
		

P-381 Air Filter Refills (3 pk)

Contact Us

Customer Service, Warranty & Parts
800.621.5622

Technical Service
833.212.9276

Plumber Support Group
866.339.2388

Copyright © 2026 Ruud Manufacturing Company. All rights reserved.

PFAS