RUHBH-FT Boilers

Ruud® FT™ 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% Thermal Efficiency (FT399), 95% AFUE (FT110, FT150, FT199, FT260)
- ENERGY STAR® certified
- Durable design – ASME rated 439 stainless steel fire tube heat exchanger
- 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
- Cascade capability – Controls up to 4 boilers (FT110, FT150, FT199) and up to 24 boilers (FT260, FT399)
- Advanced 10:1 Turndown Ratio (FT260, FT399) and 6.6:1 Turndown Ratio (FT110, FT150, FT199)
- 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]
- 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 available on FT260 and standard on FT399

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.



RUHBH-FT110, RUHBH-FT150
RUHBH-FT199, RUHBH-FT260
RUHBH-FT399,

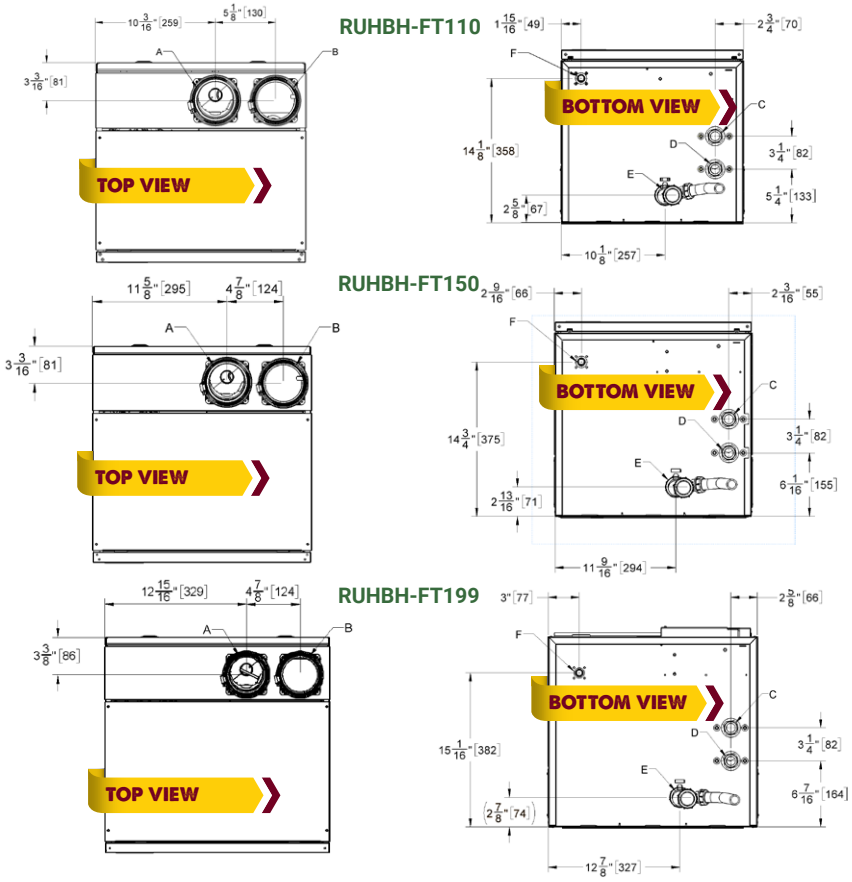
Specifications

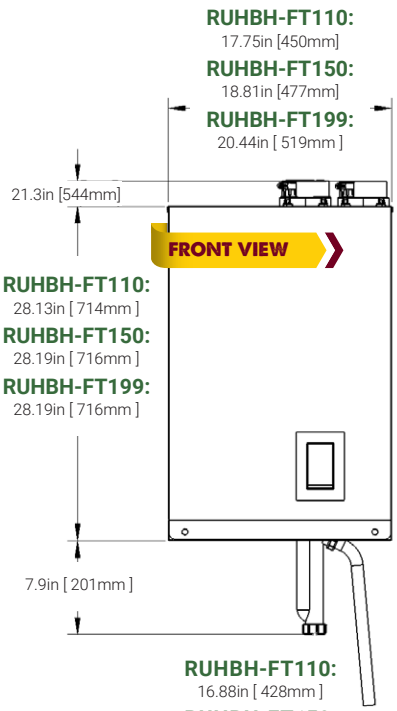
MODEL NO.	RUHBH-FT110	RUHBH-FT150	RUHBH-FT199	RUHBH-FT260	RUHBH-FT399
CSA Input (NG or Propane) – MBH	16.9-110	23-150	30.6-199	26-260	40-399
CSA Input (NG or Propane) – kW	5-32.2	6.7-44	8.8-58.3	7.6-76.2	11.7-117
CSA Output (NG or Propane) – MBH	16.2-101.5	22-138.5	29.2-183.7	24.9-239	38.4-383
CSA Output (NG or Propane) – kW	4.74-29.8	6.5-40.6	8.6-53.8	7.31-70	11.2-112
AFUE* or CE/TE**	95%*	95%*	95%*	95%*	96%**
Min. Gas Supply Pressure (NG or Propane) – inch w.c.	4	4	4	4	4
Max. Gas Supply Pressure (NG or Propane) – inch w.c.	14	14	14	14	14
Ambient Temperature – Low (°F/°C)	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
Max. Relative Humidity (Non-Condensing)	90%	90%	90%	90%	90%
Min. Water Temperature (°F/°C)	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
Max. ΔT – Supply/Return (Electronic Fence) (°F/°C)	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
Power (120Vac/60Hz) at Full Fire – watts (w/o pumps)	90	79	90	127	190
Weight (Empty) – lbs/kg	67/30.4	78/35.4	88/39.9	162/74	240/110
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
Max. Boiler Flow Rate – USgpm	14	19	25	25	45
Min. Boiler Flow Rate – USgpm	2	3	4	6	20
Max. Operating Water Pressure – psig	50	50	50	30	80
Min. Operating Water Pressure – psig	8	8	8	8	8
Supplied Pressure Relief Valve – psig	30	30	30	30	30
Approved Installation Altitude – ASL	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				

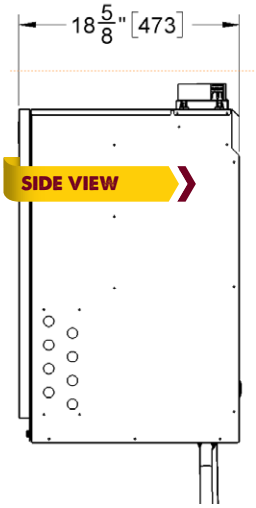
RUHBH-FT Boilers

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.

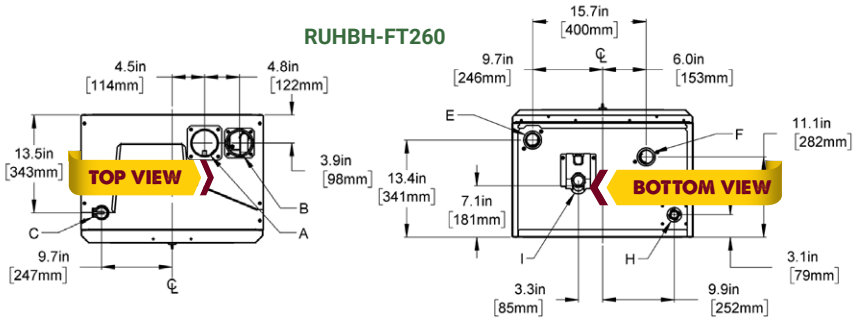
CLEARANCE FROM BOILER CABINET		
SURFACE	MIN. DISTANCE*	RECOMMENDED DISTANCE**
Front	2"	24"
Rear Flue Connection	0"	0"
Left Side	0"	4" (to non-combustibles)
Right Side	1"	4" (for electric and gas if required)
Top	2"	6" (for vent connection)
Bottom	0" (clearance for pipes)	12" (for condensate trap and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

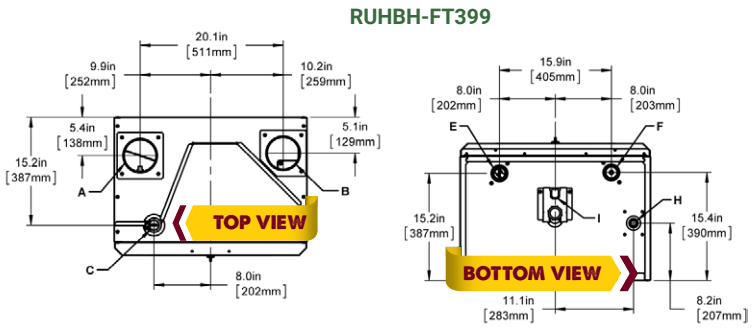
*From Combustible Surfaces **For Installation & Service

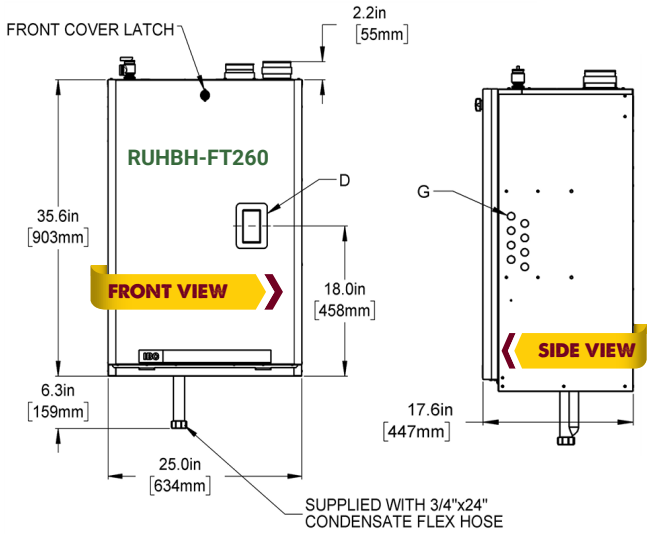
RUHBH-FT Boilers

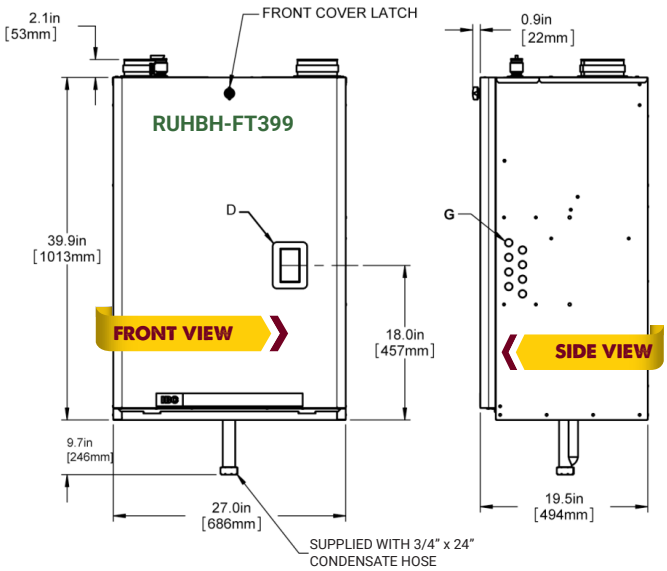
Dimensions

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 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"	4" (allow access to water connections)	1"	0" (to non-combustibles)
Right Side	1"	4" (allow access to water connections)	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

RUHBH-FT Boilers

Accessories
RUHBH-FT110, RUHBH-FT150 & RUHBH-FT199

FLOOR STAND

Part No. P-267



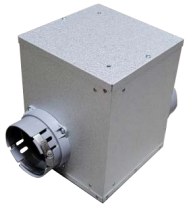
PARTS KIT

Part No. P-429



AIR FILTER KIT

Part No. P-357



P-381 Air Filter Refills (3 pk)

Accessories
RUHBH-FT260 & RUHBH-FT399

FLOOR STAND

Part No. P-266



PARTS KIT

Part No. P-430



PIPING KIT

Part No. P-273



CONDENSATE TANK

Part No. P-9126

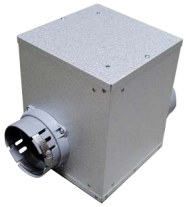


(RUHBH-FT399 Multiples Only)

P-9127 Condensate Replacement Media

AIR FILTER KIT

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

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