



Condensing Firetube Combi Boiler

CCOFTCB199A

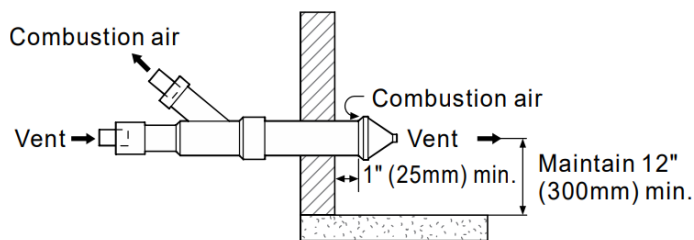
FEATURING:

- High Grade 316 SS Firetube Heat Exchanger
- Firetube Design Allows for Lower Pressure Drop
- Built-in Low Loss Header
- 12:1 Turn Down Ratio (17k-199K)
- Domestic Hot Water Recirculation Capability
- Built-in Pump Control for up to Three Circulators
- Doesn't Require Piping for Primary/Secondary System
- Service-Friendly Design with Accessible Outer Access Panels
- Multiple Venting Options: SS, PVC, CPVC, Polypropylene
- Warranty: 10-Year Heat Exchanger / 5-Year Parts

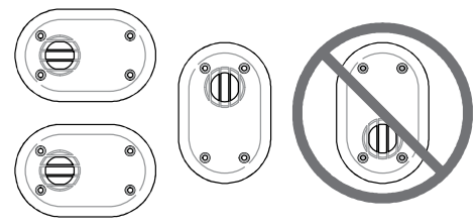


VENTING OPTIONS:

Concentric Sidewall Venting



Sidewall Vent Termination

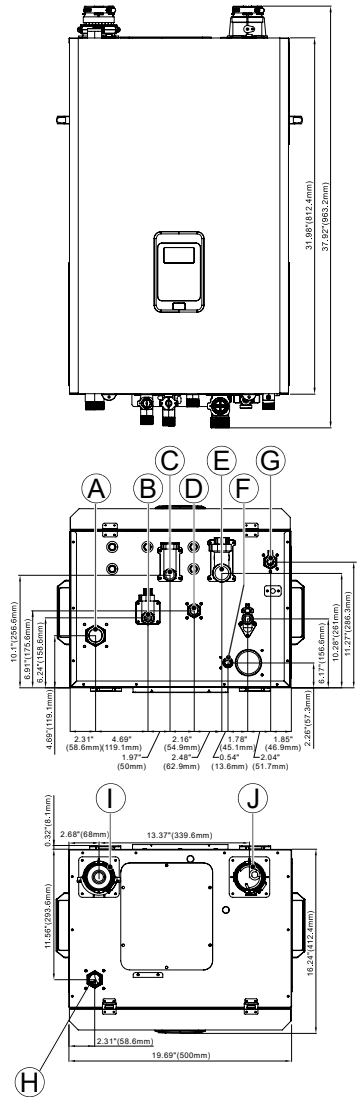


v. 12/08/25

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Model			CCOFTCB199A
Heat Capacity (Input)	Space Heating	Min	17,000 BTU/H
		Max	199,000 BTU/H
	Domestic Hot Water	Max	199,000 BTU/H
Flow Rate (DHW)	35 °F (19°C) Temp Rise		9.9 GPM (37.5 L/m)
	45 °F (25°C) Temp Rise		7.7 GPM (29.2 L/m)
	67 °F (37°C) Temp Rise		5.5 GPM (20.8 L/m)
AFUE	Natural Gas (Propane)		95 %
Dimensions (W x D x H)			19.69" X 16.24" X 31.98" (500 mm X 412.4 mm X 812.4 mm)
Water Volume	Main Tank		2.38 Gallons
	Sub Tank		1.45 Gallons
Weight			146.6 lbs (66.5 kg)
Installation Type			Indoor Wall-Hung
Venting Type			Forced draft direct vent
Ignition			Electronic ignition
Water Pressure (Hydronic/DHW)			15-150 psi
Natural Gas Supply Pressure			3.5"-10.5" WC
Propane Gas Supply Pressure			8"-13" WC
Natural Gas Manifold Pressure			-0.01" - -2.05"WC
Propane Gas Manifold Pressure			-0.01" - -2.15"WC
Temperature Range	Space Heating		82 °F - 180°F (27°C - 82°C)
	DHW		98 °F - 140°F (37°C - 60°C)
Connection Sizes	Space Heating Supply/Return		1-1/4" NPT
	Cold water Inlet		3/4" NPT
	Hot Water Outlet		3/4" NPT
	Recirculation Inlet		3/4" NPT
	Gas Inlet		3/4" NPT
Power Supply	Main Supply		120V AC, 60 Hz / use less than 5 AMP
	Power Consumption		215 W
Materials	Heat Exchanger		Stainless steel
Venting	Exhaust / Intake		2" or 3" PVC, CPVC, Polypropylene 2" or 3" Special gas vent type BH (Class II, A/B/C)
	Vent Clearances		0" to combustibles
Safety Devices			Flame rod, Over heat preventer, Exhaust temperature high limit sensor, Power surge fuse. Burner temperature high limit sensor, Low water cut off switch.

DIMENSIONS:



	Description	Diameter
A	Space Heating Supply	1-1/4"NPT
B	Cold Water Inlet	3/4"NPT
C	Recirculation Inlet	3/4"NPT
D	Hot Water Outlet	3/4"NPT
E	Space Heating Return	1-1/4"NPT
F	Condensate Outlet	1/2"NPT
G	Gas Inlet	3/4"NPT
H	Air Vent Connector	1"NPT
I	Air Inlet	2"
J	Exhaust Vent	2"

Job Name: _____ Location: _____

Engineer: _____ Wholesaler: _____

Contractor: _____ Model No: _____

Submits to: _____

Gas-fired, Combination, condensing, wall-mounted boiler(s) shall be direct vent Combi models as manufactured by Custom Comfort and are certified by CSA Group to the latest edition of ANSI standard Z21.13/CSA 4.9. Combination Boilers(s) shall have a 10-year limited Heat Exchanger warranty and 5-year limited Parts warranty (5-year Heat Exchanger and 3-year Parts for commercial use) per Custom Comfort Limited Warranty. Unit(s) shall be designed to burn natural gas and can be used with propane when a Field Conversion Kit is installed. Combination Boilers(s) shall have a nominal flow rate capacity of GPM/GPH at °F rise with rated input of BTU/hr. Combination Boilers(s) shall be vented with 2" PVC/CPVC vent pipe at a distance not to exceed 50' (or equivalent) with each elbow equal to 8' of pipe length or 3" PVC/CPVC vent pipe at a distance of 150' (or equivalent) with each elbow equal to 5' of pipe length. Combination Boiler(s) is rated for 150 PSI working water pressure for DHW (30 PSI Heating). Gas supply pressure shall be 3.5" to 10.5" WC for natural gas and 8.0" to 13.0" WC for propane. Unit(s) shall have a steel case, stainless-steel heat exchangers, negative pressure gas valve, 3/4" inlet gas connection, 3/4" DHW brass inlet/outlet water connection, and 1 1/4" brass inlet/outlet heating connections. The CCOFTCB199A model weighs 146.6 lbs. Unit(s) shall include features such as an adjustment for different vent lengths, & temperature lockout. The combination boilers(s) shall be controlled by an internal circuit board that monitors the Heating/DHW inlet and outlet temperatures with installed thermistors. Unit(s) shall include safety features such as flame sensor system, high limit sensors, overheat prevention device, freeze protection mode, and fan motor rotation detector. The Combination Boilers(s) exceeds the energy efficiency requirements of ASHRAE 90.1-2013. Custom Comfort reserves the right to change specifications at any time without prior notice.