

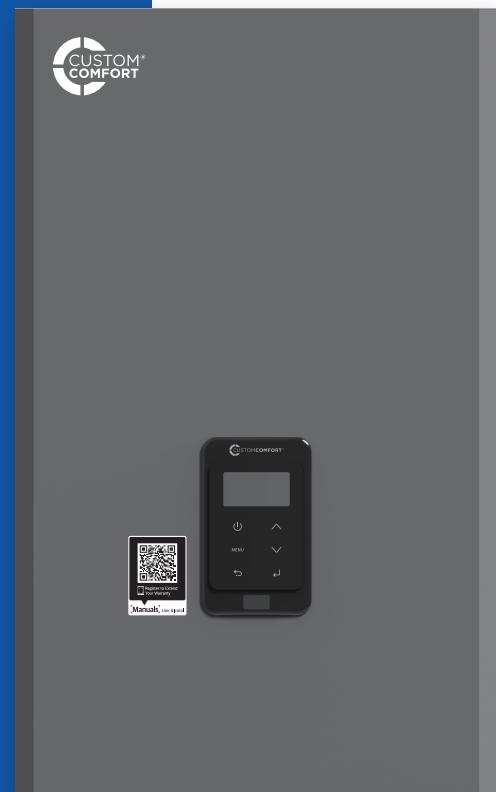


# Condensing Firetube Combi Boiler

CCOFTCB199A

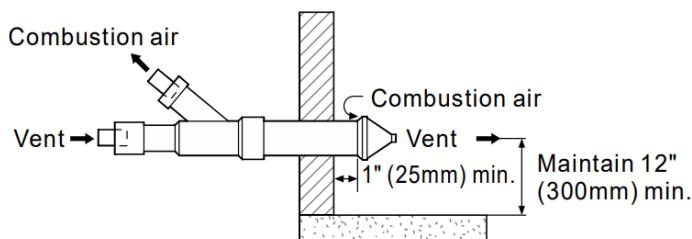
## FEATURING:

- 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

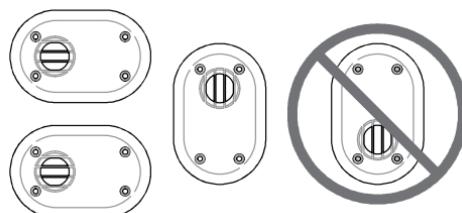


## VENTING OPTIONS:

### 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
	Space Heating	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.	

Job Name: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_

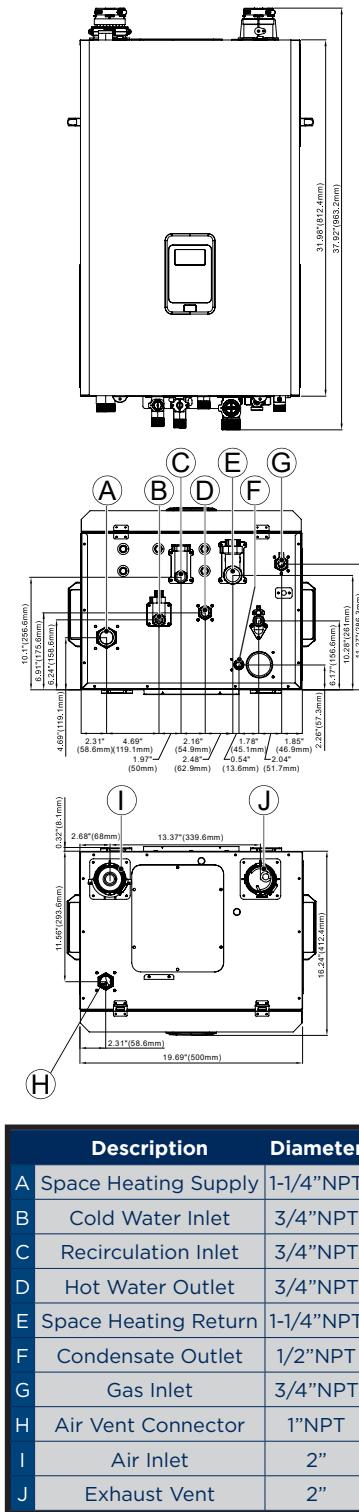
Submits to: \_\_\_\_\_

Location: \_\_\_\_\_

Wholesaler: \_\_\_\_\_

Model No: \_\_\_\_\_

## DIMENSIONS:



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.