

CERTIFIED TO ANSI Z21.13 — CSA 4.9

CONDENSING WALL-MOUNTED, GAS-FIRED COMBIBOILER (CENTRAL HEATING AND DOMESTIC HOT WATER)

Models	IP175199C, IP199199C
Appliance	Wall-Mounted, Gas-Fired Combi Boiler
Installation	Indoor
Gas Types	Natural Gas (or Propane with field conversion)
Standard Features	<ul style="list-style-type: none"> • Factory Installed Pump • Outdoor Reset Control System with Sensor • Priority/Proportional DHW Standard • Built-in DHW Plate Heat Exchanger • Modulating Burner • Stainless Steel Water Tube Condensing Heat Exchanger • Direct Vent Sealed Combustion • Approved for Room and Closet Installations
Included with Purchase	<ul style="list-style-type: none"> • Condensing Gas Boiler with Integrated Pump • Wall Mounting Bracket • CH Pressure Relief Valve (30 PSI) • Outdoor Temperature Sensor • Vent Top with Integrated 2 in. PVC or 3 in. x 5 in. Concentric Vent Adapter • Documentation: Installation and Operation Manual, User Manual
Optional Accessories	Primary-Secondary Heating Kit (PN: 807000212), Condensate Neutralizer (PN: 804000074), ScaleCutter (PN: 103000038), ScaleCutter Refill Cartridge (PN: 103000039), and Isolation Valve Kit (PN: MIVK-T-LW)
Venting Options	<ul style="list-style-type: none"> • Direct Vent (Concentric and Twin Pipe) • Room Air • Ubbink Flex Vent • Materials: Polypropylene, Stainless Steel, PVC, CPVC <p>Refer to the Boiler Installation and Operation Manual for approved venting.</p>

Maximum Equivalent Vent Lengths

Concentric, Twin Pipe, and Room Air:

Vent Sizes	<ul style="list-style-type: none"> • 2 in. PVC • 2 in. (60 mm) PP • 2 in. x 4 in. Concentric 	<ul style="list-style-type: none"> • 3 in. PVC • 3 in. (80 mm) PP • 3 in. x 5 in. Concentric
Vent Lengths	75 ft (23 m)	160 ft (49 m)

Flex:

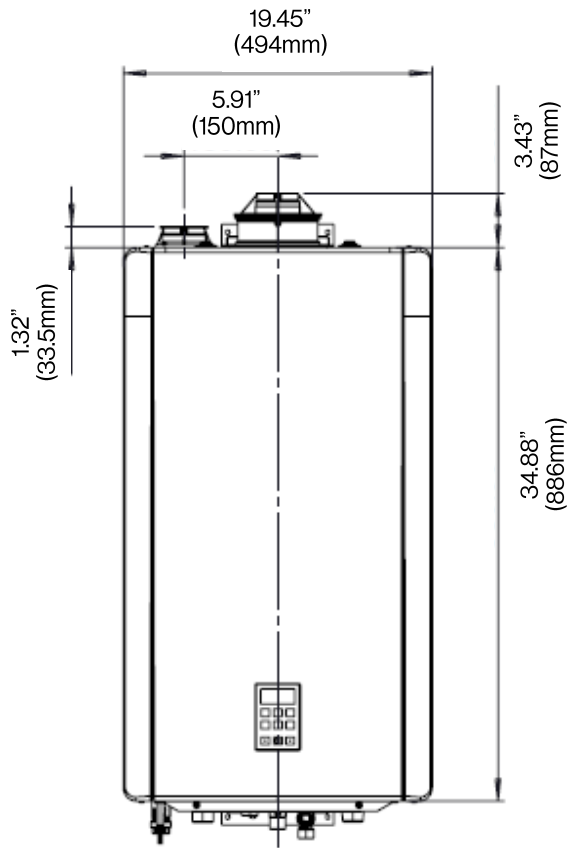
Vent Sizes	2 in. PP
Vent Lengths	50 ft (15 m)

For detailed venting information, refer to the Boiler Installation and Operation Manual.

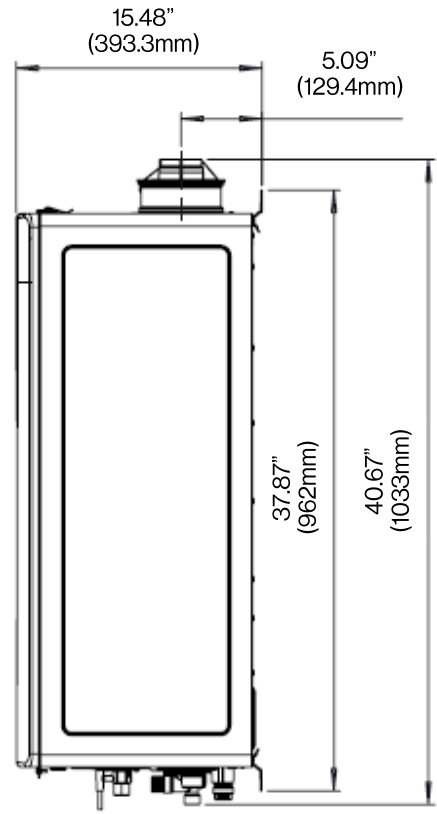
DIMENSIONS

Measurements: in. (mm)

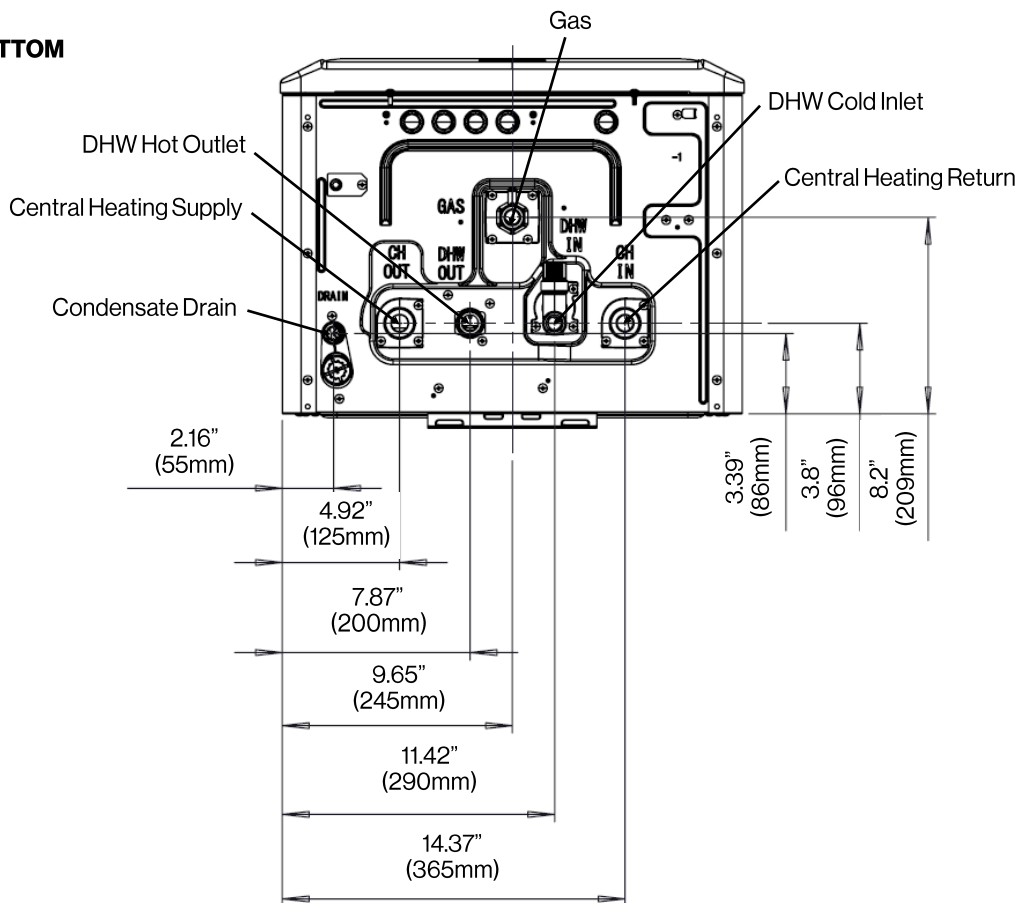
FRONT



SIDE



BOTTOM

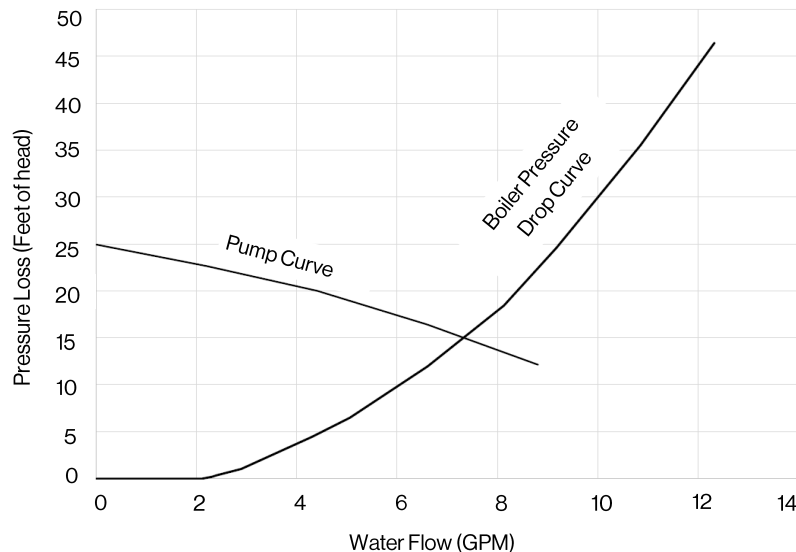


TECHNICAL SPECIFICATIONS

Model		IP175199C	IP199199C
Dimensions - w, h, d	Unit	19.45 in. x 34.88 in. x 15.48 in. (494 mm x 886 mm x 393 mm)	
	Shipping	23.6 in. x 45.3 in. x 19.7 in. (600 mm x 1,150 mm x 500 mm)	
Weight	Unit	123.5 lb (56 kg)	
	Shipping	138.6 lb (63 kg)	
Ignition System		Direct Electronic Ignition	
Heat Exchanger Surface Area		15.6 sq ft	
Gas Consumption (Btu/hr)	Minimum	15,000	
	Maximum (CH)	175,000	199,000
	Maximum (DHW)	199,000	
Heating Capacity (MBH)		160	181
DHW Specification	Minimum Activation Flow Rate	0.4 GPM (1.5 L/min)	
	Minimum Operation Flow Rate	0.26 GPM (1.0 L/min)	
	Maximum Flow Rate	9.8 GPM (37 L/min)	
	Flow Rate at 70°F (39°C) rise	5.1 GPM (19 L/min)	
Temperature Setting	CH	(Minimum - Maximum) 86°F - 180°F (30°C - 82°C)	
	DHW	(Minimum - Maximum) 98°F - 140°F (37°C - 60°C)	
Water Content	CH	2.4 gal	
	DHW	0.05 gal	
Water Pressure	CH	Minimum: 13 PSI (90 kPa) Maximum: 55 PSI (379 kPa) Recommended: 17-26 PSI (117-180 kPa)	
	Pressure Relief Valve for CH (included with system)	30 PSI (207 kPa)	
	DHW	Minimum: 20 PSI (138 kPa)/ Maximum: 150 PSI (1,034 kPa) (Recommend 30-80 PSI for Maximum Performance)	
Grundfos Pump Model		Grundfos UPS 15-78	
Sound Level		42dB(A)	
Electrical Data	Normal (CH)	207W	
	Standby	8 W	
	Max Current	14 Amps	
	Fuse	10 Amps x1, 4 Amps x5	
Gas Supply Pressure ¹	Natural Gas	3.5 in. - 10.5 in. W.C. (0.87 - 2.61 kPa)	
	Propane	8.0 in. - 13.5 in. W.C. (1.99 - 3.36 kPa)	
Electric Connections		AC 120 Volts, 60 Hz	
Turndown Ratio (TDR)		11.7:1	13.3:1
AFUE		95.0%	
Certifications		ANSI Z21.13, CSA 4.9, ASME	

¹ The maximum gas supply pressure must not exceed the value specified by the manufacturer.

PRESSURE DROP AND WATER FLOW CURVE



FEATURES

Faster, Easier Installation

- Compact & lightweight design
- Convenient mounting bracket
- NPT threads for connection points
- More flexible venting options
- Simplified parameters for commissioning and setup

Clearances

- Top: 2 in. (51 mm)*
- Bottom: 12 in. (305 mm)
- Front: 6 in. (152 mm)**
- Back: 0 in.
- Sides: 2 in. (51 mm)
- Vent: 0 in.

* 0 in. from vent components.
6 in. (152 mm) for closet installations.

** Clearance for servicing is 24 in. (610 mm) in front of boiler.

Warranty

Residential:

- Heat Exchanger: 12 Years
- All Other Parts/ Components: 5 Years
- Labor: 1 Year

Commercial:

- Heat Exchanger: 5 Years
- All Other Parts/ Components: 5 Years
- Labor: 1 Year

Important

If the boiler is to be installed in a system that has multiple zones, a Closely Spaced Tee/Manifold Kit (**PN: 807000212**) is recommended to be installed.

DHW = Domestic Hot Water
CH = Central Heating
PRV = Pressure Relief Valve

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