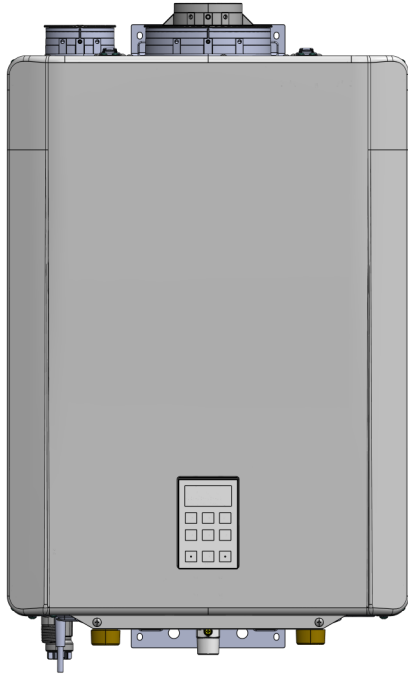




# I-Series Plus Heat-Only (Solo) Boiler

**Models: IP060S, IP090S, IP120S, IP150S**



CERTIFIED TO ANSI Z21.13 — CSA 4.9

## CONDENSING WALL-MOUNTED, GAS-FIRED HEAT-ONLY (SOLO) BOILER

<b>Models</b>	IP060S, IP090S, IP120S, IP150S
<b>AFUE</b>	Up to 96%
<b>Appliance</b>	Wall-Mounted, Gas-Fired Heat-Only (Solo) Boiler
<b>Installation</b>	Indoor
<b>Gas Types</b>	Natural Gas (or Propane with field conversion)
<b>Standard Features</b>	<ul style="list-style-type: none"> <li>Outdoor Reset Control System with Sensor</li> <li>Modulating Wire Mesh Burner</li> <li>Stainless Steel Water Tube Condensing Heat Exchanger</li> <li>Direct Vent Sealed Combustion</li> <li>Approved for Room and Closet Installations</li> </ul>
<b>Included with Purchase</b>	<ul style="list-style-type: none"> <li>Condensing Gas Boiler</li> <li>Wall Mounting Bracket</li> <li>CH Pressure Relief Valve (30 PSI)</li> <li>Outdoor Temperature Sensor</li> <li>Vent Top with Integrated 2 in. PVC or 3 in. x 5 in. Concentric Vent Adapter</li> <li>Documentation: Installation and Operation Manual, User Manual</li> </ul>
<b>Optional Accessories</b>	Primary-Secondary Heating Kit (PN: 807000212), Condensate Neutralizer (PN: 804000074), ScaleCutter (PN: 103000038), and ScaleCutter Refill Cartridge (PN: 103000039).

<b>Venting Options</b>	<ul style="list-style-type: none"> <li>Direct Vent (Concentric and Twin Pipe)</li> <li>Room Air</li> <li>Ubbink Flex Vent</li> <li>Materials: Polypropylene, Stainless Steel, PVC, CPVC</li> </ul> <p>Refer to the Boiler Installation and Operation Manual for approved venting.</p>
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Maximum Equivalent Vent Lengths:

Concentric, Twin Pipe, and Room Air:

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

Flex:

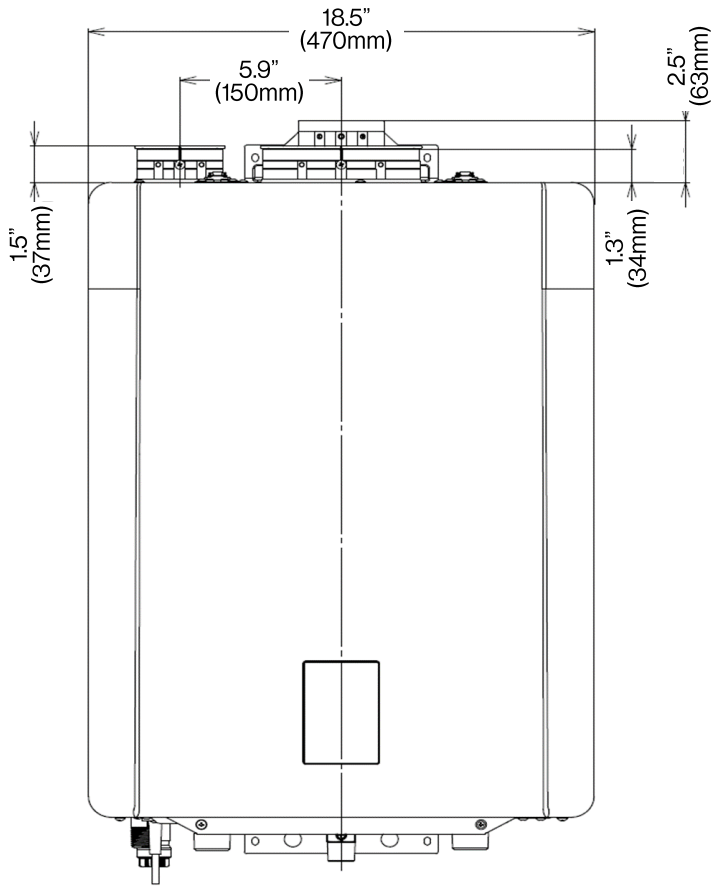
<b>Vent Sizes</b>	2 in. PP
<b>Vent Lengths</b>	50 ft (15 m)

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

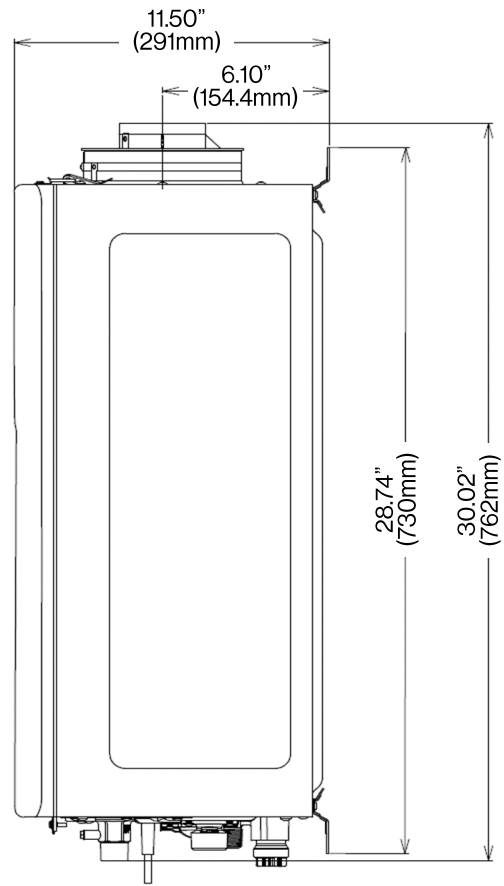
**DIMENSIONS**

Measurements: in. (mm)

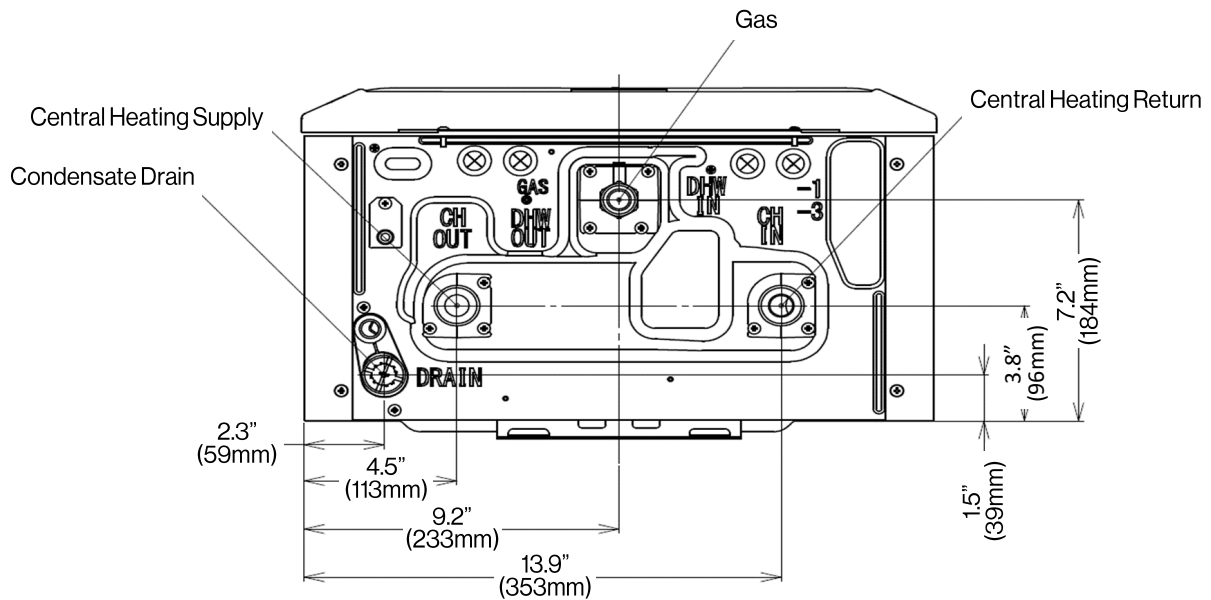
**FRONT**



**SIDE**



**BOTTOM**

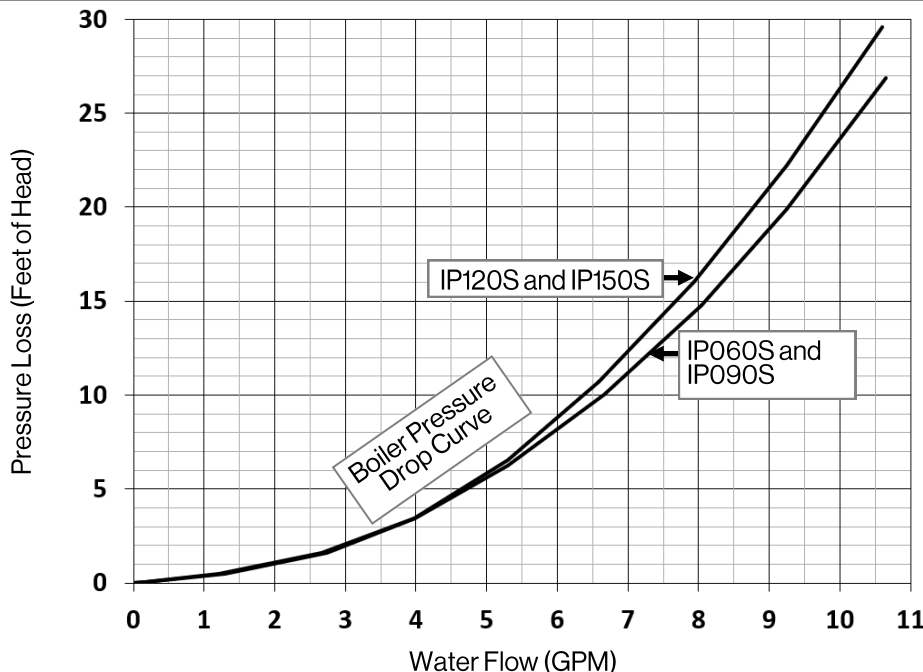


## TECHNICAL SPECIFICATIONS

Model		IP060S	IP090S	IP120S	IP150S
Dimensions - w, h, d	Unit	18.5 in. x 26.4 in. x 11.45 in. (471 mm x 671 mm x 290 mm)			
	Shipping	20.9 in. x 33.5 in. x 14.6 in. (532 mm x 852 mm x 370 mm)			
Weight	Unit	62.6 lb (28.4 kg)		64.8 lb (29.4 kg)	
	Shipping	69.1 lb (31.4 kg)		71.3 lb (32.4 kg)	
Ignition System		Direct Electronic Ignition			
Heat Exchanger Surface Area		9.3 sq ft		10.9 sq ft	
Gas Consumption (Btu/hr)	Minimum	15,000			
	Maximum	60,000	90,000	120,000	150,000
Heating Capacity (MBH)		56	83	110	138
Temperature Setting (CH)		(Min - Max) 86°F - 180°F (30°C - 82°C)			
Water Content		0.75 gal		0.88 gal	
Water Supply Pressure	CH	Minimum: 13 PSI (90 kPa) Maximum: 45 PSI (310 kPa) Recommended: 17 - 26 PSI (117 - 180 kPa)			
	Pressure Relief Valve	30 PSI (207 kPa)			
Sound Level		40 dB(A)			42 dB(A)
Electrical Data	Normal (CH)	36 W	53 W	50 W	50 W
	Standby	8 W			
	Max Current	14 Amps			
	Fuse	10 Amps x1, 4 Amps x5			
Turndown Ratio (TDR)		4.0:1	6.0:1	8.0:1	10.0:1
AFUE		95.5%	96.0%		
Gas Supply Pressure <sup>1</sup>	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			
Certifications		ANSI Z21.13, CSA 4.9, ASME			

<sup>1</sup>Maximum gas supply pressure must not exceed the value specified by the manufacturer.

## PRESSURE DROP CURVE AND WATER FLOW CURVE



\*External boiler pump required.

## 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 is recommended to be installed.

CH = Central Heating  
PRV = Pressure Relief Valve

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