



ECR™ 97gb

95% AFUE Residential Gas Modulating Condensing Boiler
Floor/Wall Mount Application



ECR™ 97gb – Residential Gas Modulating Condensing Hot Water Boiler

Winter is notorious for all sorts of life's little gems. With the ever present threat of colds and flu, school closings and delays, and an unpredictable daily commute - a runaway heating bill is the last thing you need. The truth is, most homeowners focus solely on utility costs and don't actually think about their heating **system** until it needs to be repaired or replaced. One "No Heat" call to your local contractor can cost \$300 or more, just to diagnose a problem and if your boiler has out-lived its warranty, you'll be responsible for the full cost of parts and labor.



Your old low efficiency heating system can have an annual fuel utilization efficiency (AFUE) of 70%. That means 70% of the energy in the fuel becomes heat for the home and the other 30% escapes up the chimney and elsewhere. With an old inefficient boiler you could be throwing away up to 30% of the money you spend on fuel each year.



Doesn't your family deserve a new high efficiency home heating system and all the comfort and peace of mind that come with it?

The ECR™ 97gb features 95% AFUE.
Just add up the savings:

- 95% AFUE
- Sealed Combustion
- *Built-in Outdoor Temperature Reset

(*A factory standard Outdoor Temperature Reset adjusts water supply temperature for best possible fuel economy based on actual seasonal conditions.)

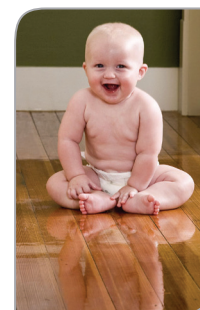
The increased efficiency of the ECR97™ gb could save you over 40% on your heating bill each year.
If you pay \$1,750 annually to heat your home, you could save as much as \$700 per year.

That's \$3,500 over 5 years!†

† (Individual savings may vary).

If you have kids or pets that play in the basement or utility room, the ECR™ 97gb offers optional wall mount installation, freeing up valuable floor space and easing ground level safety concerns. Since most of us have better things to do than fumble with the thermostat, the ECR™ 97gb has an advanced microprocessor control that continuously monitors supply and return water temperature, automatically adjusting the boiler's output to keep the whole family comfortable.

Another plus, when used with an indirect hot water heater, the ECR™ 97gb quickly and efficiently redirects heat when and where it's needed. **No standing around, waiting for hot water.**



Need more...how about:

- A 15 Year Limited Manufacturer's Warranty

ECR™ 97gb – Replacement/New Construction Ready Right Out of the Box

95% Efficient, 100% Easy to Install

- Floor or wall mount for greater installation flexibility.
- Built in primary/secondary piping with pump takes hours of labor out of your installation. Special high head system pumps not required for most applications.
 - Convenient valve for primary/secondary loop requirements in multiple boiler applications.

1) Control Interface (Optional Wall Mount)



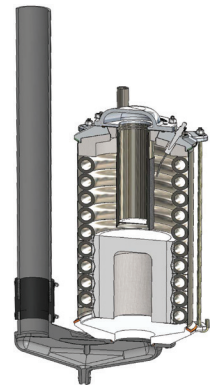
2) Probe Type Low Water Cut-Off



Easy Floor or Wall Mount Application (Hanging Bracket and 4 Lag Bolts included)

3) Heat Exchanger

4) Vent Transition



Control panel hinges down for installation and service and can be completely removed if needed.

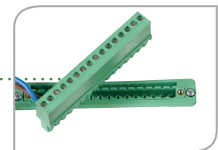
1. The Control interface features easy-to-understand text display, remote mount option and simple 2 wire connection. When the cover is on the unit, the control interface is protected by a smoke plastic hinged cover. A cover insert is standard for use with the remote mount option.
2. Built-In Low Water Cut Off features test button.
3. Revolutionary Exclusive Heat Exchanger
 - Constructed of 316L/444 Stainless Steel fin tube
 - Self-Cleaning
(Internal waterways are wide and smooth which inhibits scaling while water flow helps remove hard water deposits)
 - Easy access for servicing



- 100% Compatible with Existing Piping
 - Flexible Piping (Top & Bottom)
 - Gas line connection can run out the top or be changed in the field to the bottom. Top and bottom supply/return options have 1-1/4" tapings. Boiler shipped with brass plugs for installer use.
- Venting
 - Vent transition is constructed of PVC which is impervious to acidic condensate that pools and is corrosive to metals.

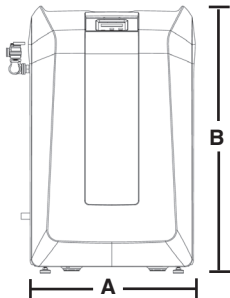
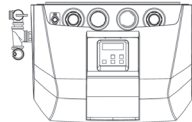
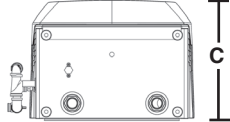
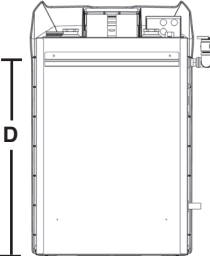







Leveling legs for floor mount applications included.



- Simplified Electrical Connections (120V, Argus™ Control, Low Voltage Terminal Strip)

ECR™ 97gb Natural or Propane Modulating Gas-Fired Condensing Boiler

Dimensions/Weights	Model	Boiler Input Rate (MBH) ⁽¹⁾		Heating Capacity (MBH) ⁽¹⁾⁽²⁾	Net AHRI Rating, Water (MBH) ⁽¹⁾	AFUE % ⁽²⁾	
		Max.	Min.				
<div><div>Front</div><div></div><div>Top</div><div></div><div>Bottom</div><div></div><div>Back</div><div></div></div>	ECR075	75	15	69	60	95.0	
	ECR100	100	20	91	79	95.0	
	(1) 1000 Btu/hr (British Thermal Units Per Hour)						
	(2) Heating Capacity and AFUE (Annual Fuel Utilization Efficiency) are based on DOE (Department of Energy) test procedures.						
	(3) Net AHRI Ratings based on piping and pickup allowance of 1.15. Contact ECR Technical Support before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.						
	General Information (See Installation, Operation and Maintenance Manual for complete instructions)						
	Flooring	May be installed on Combustible flooring (No Carpets)					
	Clearances				Combustible Materials (Required)	Service*	
		Top			0" (0 cm)	14" (36 cm)	
		Left Side			6" (16 cm)	6" (16 cm)	
Right Side				0" (0 cm)	1 1/2" (4 cm)		
Front				0" (0 cm)	6" (16 cm)		
Back				0" (0 cm)	0" (0 cm)		
Bottom				0" (0 cm)	0" (0 cm) Floor Mount 12" (32 cm) Bottom Piped		
Combustion Air/Vent Piping				0" (0 cm)	6" (16 cm)		
Hot Water Piping				See Local Code	6" (16 cm)		
All distances measured from the boiler. *Service, proper operation clearance recommendation.							
Combustion Air & Vent Pipe Equivalent Length (Schedule 40 PVC)				2" Pipe Equivalent Ft. (m)	3" Pipe Equivalent Ft. (m)		
	Min. Length			6 Ft. (1.8 m)	6 Ft. (1.8 m)		
	Max. Length			60 Ft. (18.3 m)	100 Ft. (30.4 m)		
(System 636 for Combustion Piping)		Notes: 1 - 90° Elbow = 5 Ft. (1.6 m), 1 - 45° Elbow = 3.5 Ft. (1.1 m), 1 - 2" x 4" Adapter = 0 Ft. (0 m), Concentric Vent Kit = 5 Ft. (1.6 m) equivalent length.					
Connections	Return/Supply Water: 1-1/4" NPT		Gas In: 1/2" NPT	Condensate Drain: 1/2" PVC			
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)						
Water Content	1.1 Gallons						
Standard Equipment	Mounting Floor/Wall: Leveling Legs and Wall Bracket both included. Boiler Control Module: Automatic Low Voltage/Intermittent Power Reset. Controls up to 16 boilers for multiple boiler applications. User Display interface: Easy programming with text display. Remote mount option utilizes standard thermostat conductor wiring. Heat Exchanger: High grade 316L/444 Stainless Steel Fin Coil with Flame Sight Glass. Built-in Primary/Secondary Manifold Piping and Pump. Combustion: Gas Valve with Premix Venturi and Blower, Durable Stainless Steel Mesh Burner, Direct Spark Igniter, Flame Sensor and LP Conversion Kit included. Electrical: Detachable Low Voltage Terminal Strip, High Voltage Junction Box, Transformer, Lighted Power Switch and Auxiliary Service Power Outlet.. Other: Low Water Cut Off with test feature, Outdoor Temperature Reset, 30 PSI Safety Relief Valve, Boiler Drain Valve and Condensate Drain with built in trap.						
Options	Central Heating Pump (Taco 007 or Grundfos UP15-42F)						
Accessories	Concentric Vent Kit (2" and 3"), System Sensor (For Multiple Boiler Applications), Computer Interface						
Certifications	<div><div></div><div></div><div></div><div></div><div></div></div>						
	Dimensions						
	Models	075/100					
	Width (A)	22-1/16" 560 mm					
Height (B)	35-5/8" 905 mm						
Depth (C)	16-3/16" 411 mm						
Bracket (D)	27-1/2" 969 mm						
Weights							
Ship Wgt.	140 lbs. 63.5 kg						
Boiler Wgt.	115 lbs. 51.2 kg						

PN 240008986 Rev. 9/14 - Canada Only

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