



HIGH-EFFICIENCY CONDENSING BOILER

4 Heat Only Sizes, 3 Combi Sizes | Water | Natural or Propane Gas | 80-199 MBH Direct Vent or Direct Exhaust | 95% AFUE

The next generation of Weil-McLain comfort







Efficiency advantage

Eco Tec is Weil-McLain's newest, premium residential gas boiler. It's designed to be easy to install and service, with a long-lasting stainless steel firetube heat exchanger and our next-generation color touchscreen control with multi-zone and other advanced capabilities. It features a space-saving wall-mount design, optional pedestal for floor standing installations and common-parts approach across all models.

Eco Tec is available in four heat only sizes, from 80 to 199 MBH, and three combi sizes, from 110 to 199 MBH. The 199 size can generate up to 5.4 GPM and is able to satisfy two showers, a faucet, and a dishwasher at the same time-making it the premium residential combi from North America's leading boiler manufacturer.

With an impressive 95% AFUE rating, Eco Tec has earned the ENERGY STAR® Most Efficient recognition, helping homeowners save on energy costs every heating season. Even greater savings can be realized, all year long, if choosing the combi unit for both space and domestic hot water heating.

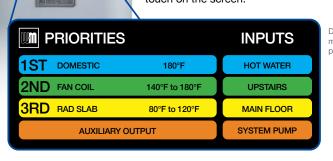


Comfort where you want it.

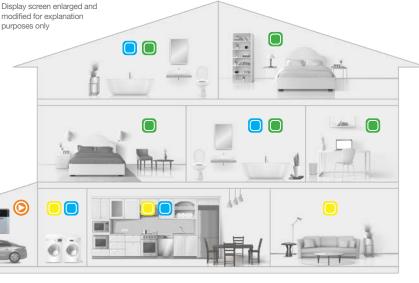
Weil-McLain is devoted to simplified and targeted comfort. Our next generation Unity 2.0 control is equipped with 10 preloaded system type options to chose from, and even has a guided set up wizard - making start up as easy as a touch on the screen.

Hot water when you need it.

Household lifestyles vary. Shouldn't controls match the family's needs? While some other products may only offer one setting, we know that's not enough. The Eco Tec control has several different domestic hot water modes to choose from to maximize energy savings and/or comfort - ranging from the most efficient mode, to preheat, high performance or our own ECO BOOST™ technology.



We understand heating systems. We should. We've been leading the industry for close to 150 years. Different types of systems operate at different temperatures, and a home may have a combination of systems in it. We've simplified that too. Our boiler control can send out different temperatures to match the home's systems, assign a priority of what need is met first, and identify what part of the



Control advantage

home is set up on each system by color code.

Want to know at a glance what your boiler is doing? No problem on the Eco Tec. Whether you're in front of the boiler, or across the room, our display screen has operation status icons and colors.





















Forget when to have a checkup? We've got you covered.

A maintenance reminder can be set to automatically appear on the display screen when it's time. And no need to find and check your paperwork...the contractor's name and phone number appears on the screen as well.



Design advantage

- Spacious cabinet allows full access to all critical parts that are strategically positioned
- Durable, high grade stainless steel fire tube primary heat exchanger maximizes heat transfer and its vertical design promotes self rinsing during operation
- Combustion system achieves up to a 10:1 turndown ratio to minimize fuel usage and is low emission certified
- Corrosion resistant polypropylene heat exchanger base to protect against acidic condensate
- · Sound dampening air silencer for whisper quiet operation
- Insulated heat exchanger and DHW pipes further reduce heat loss and noise
- Sealed cabinet preheats incoming air for smooth starting, and does not pull any potential outside debris directly into blower and burner

- NSF/ANSI 372 certified stainless steel domestic hot water brazed plate exchanger design provides up to an industry leading 5.4 gallons per minute at a 70 degree temperature rise (199 combi).
- Removable, unique control terminal blocks eliminate potential field wiring errors
- Control board features multiple fuses to help protect from surges, and has a "built in" zone control-able to accept up to 4 thermostat inputs and operate up to 4 external circulators (plus internal) without the need of an external control (2 on combi)
- · Built in ECM circulator saves electrical energy and installation time
- 3-in-1 universal air and vent adapters readily accept different types of pipe materials, and have built in test ports to aid combustion testing

Standard equipment

- Stainless Steel Fire-Tube Heat Exchanger
- Non-Metallic Heat Exchanger Base
- 10 to 1 Turndown Ratio (110-199 Sizes)
- 8 to 1 Turndown Ratio (80 Size)
- Built-in ECM Circulator (Taco 0015e)
- 3 in 1 Air/Vent Adapters w/Test Port
- · Built-in LWCO Port

Dimensions

All measurements are in inches

61/2

91/16

103/6

713/16

BOTTOM

- · Wall Mount Bracket & Template
- Condensate Trap
- Low NOx SCAQMD Compliant
- High Altitude Approved

Control Features

1915/1

TOP

AHRI Certified Ratings

53/16 51/4

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- · Color Touch Screen Display
- Easy Set-up with Control Wizard
- · Zone and/or Priority Based Control
- · Four Thermostat Inputs (2 on combi)
- 0-10V Input (modulation or setpoint)

6

FRONT

- · Outdoor Reset for Each Priority
- Rate Adjustable per Priority
- Four Outputs (2 on combi) can be used with external circulators, dampers, or system aux
- Aux Inputs Flow Switch or End Switch
- Aux Outputs System Pump or Damper

RIGHT

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- Individually Fused 120V Outputs
- Modbus Connectivity

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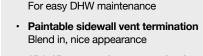
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Additional Heat Demand Contact

Isolation flush valves

· Easy Up manifold

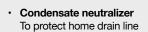
- · 2" & 3" concentric vent termination For one penetration through sidewall or roof
- Simple plug & play kit to meet local codes
- Water treatment and test kit To help ensure entire system protection
- Parts kit customer service
- · Maintenance kit Key components to perform annual
- Simple conversion to match home LP supply
- Extra monitoring points for further modulation
- Boiler pedestal kit For floor standing



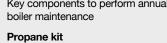
Optional accessories

Avoid flow issues, save time with quick fit near boiler piping

Low water cut off



Critical components to optimize









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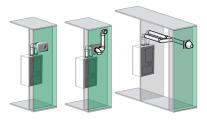
Specifications

Domestic Hot Water Flow Rate Gallons Per Minute @ Temp Rise						
Model ¹	70°F	75°F	77°F			
110-C	3.0	2.9	2.8			
150-C	4.1	3.9	3.8			
199-C	5.4	5.0	4.9			

Connections (NPT/Inches)		80	110	150	199
1	Heating system supply tapping	1"	1"	1"	1"
2	2 Domestic hot water outlet		3/4"	3/4"	3/4"
3	Gas connection	1/2"	1/2"	1/2"	1/2"
4	Domestic cold water supply	-	3/4"	3/4"	3/4"
5	Heating system return tapping	1"	1"	1"	1"
6	Combustion air connection	3"	3"	3"	3"
7	Flue outlet connection	3"	3"	3"	3"

DOE **Net AHRI** DOE Boiler Heating Water Seasonal Water Vent/Air **Boiler** Input **Ratings** Efficiency Content Pipe Size Weight Capacity Model¹ (MBH) (MBH)2 (MBH)³ (AFUE) (Inches) **Vent Material Boiler Dimensions** (Lbs.) (Gallons) 80-H 80 PVC, CPVC, PP, SS 19"L x 20"W x 33"H 104 74 64 95% 2.2 2 or 3 ONLY PVC, CPVC, PP, SS 110-H 19"L x 20"W x 33"H 104 110 100 87 95% 2.2 2 or 3 150 150-H 139 121 95% 3.1 2 or 3 PVC, CPVC, PP, SS 19"L x 20"W x 33"H 117 199-H 199 184 160 95% 3.8 2 or 3 PVC (3" only), CPVC, PP, SS 19"L x 20"W x 33"H 127 PVC, CPVC, PP, SS 110-C 110 100 87 95% 2.2 2 or 3 19"L x 20"W x 33"H 114 COMBI 150-C 150 139 121 95% 3.1 2 or 3 PVC, CPVC, PP, SS 19"L x 20"W x 33"H 126 199-C 199 184 160 95% PVC (3" only), CPVC, PP, SS 19"L x 20"W x 33"H 135 3.8 2 or 3

Venting







Through-the-roof direct vent



Direct exhaust

Product Warranty

Transferable, Non-Prorated

Residential:

- 12 years on primary heat exchanger
- 2 years on parts without registration or 5 years on parts with registration

Commercial:

- 10 years on primary heat exchanger
- 1 year on parts

1Shipped as Natural gas, field convertible to LP with optional kit. 2Based on standard test procedures prescribed by the United States Department of Energy, MBH refers to thousands of Btu per hour. ³Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirement of the building and nothing needs to be added for normal piping and pick-up. Ratings

Dual pressure zones

are based on piping and pick-up allowance of 1.15. An additional allowance should be made for unusual piping and pick-up loads. In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice. WM2005_BRO_058_EcoTec













