

EASY HEAT EFFORTLESS COMFORT

Commercial-grade
controls for residential and
light-commercial applications



*Model Dependent



Heat you can count on

Perfect for residential or light commercial, single or multi-unit installations, the Evergreen Pro provides reliable, space heating as part of the broadest range of hydronic heating solutions in the industry. In your home, school, church or work space, Weil-McLain has been providing reliable, heating comfort since 1881.

RESIDENTIAL

Stay *effortlessly comfortable* in any home environment with the Evergreen Pro boiler. The quiet operation of the Evergreen Pro further enhances the sense of “invisible” heat, from multiple in-home zones to pool heating.

- The Evergreen Pro’s sleek, modern design adds value to the home or property.
- Ease of programmability makes achieving comfort simple.
- For the homeowner who wants heating comfort while maintaining lower utility bills and reducing their carbon footprint, the Evergreen Pro 110–299 boilers have earned ENERGY STAR®, with an impressive 95% AFUE rating. This could qualify the homeowner for available local utility rebates, if available. The Evergreen Pro’s smooth performance adds to the greener environment sustainability.



SEAMLESS COMPATIBILITY

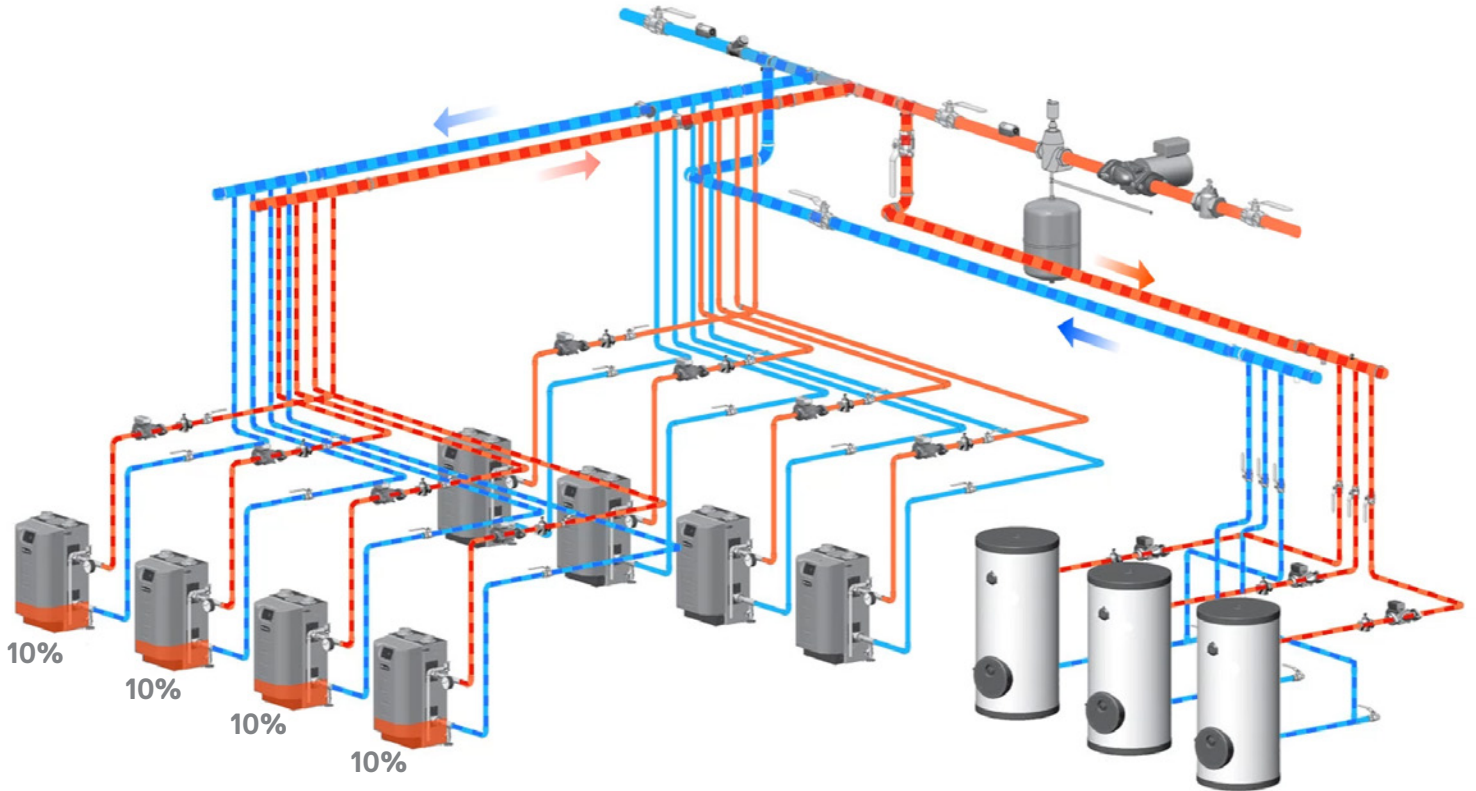
The high performance of the Evergreen Pro boiler works seamlessly with the efficient and durable Weil-McLain Aqua Plus® and Aqua Pro® Indirect Fired Water Heaters. Available in eight sizes, these AHRI Certified™ water heaters meet demanding hot water applications.





ZONESTACKING

Enables all zone capabilities of each individual boiler when connected on a cascaded network of boilers. With the Evergreen Pro boiler, the number of programmable zones is three times the number of boilers on the network, up to eight boilers.



COMMERCIAL

Familiar interface—innovative technology

As our technology has advanced to create smoother, more efficient operations, we've kept the interface of the Evergreen Pro boiler familiar, simple to use and easy to learn.

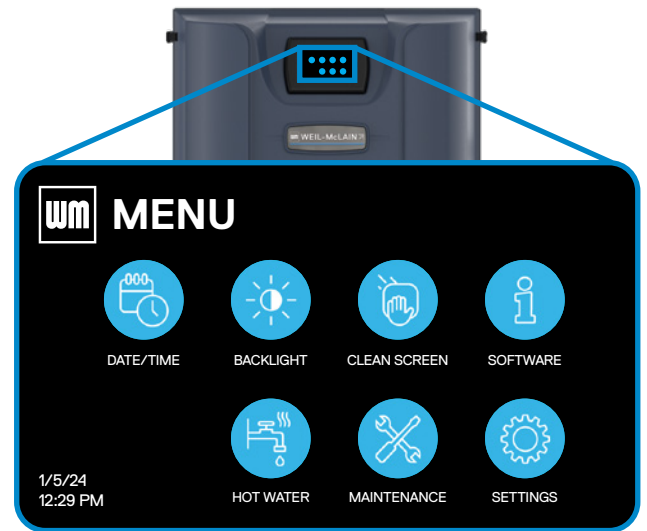
- For the residential and light commercial customer who requires a multiple boiler setup, the Evergreen Pro provides ZoneStacking—24 zone capability without an additional external 3rd party control.
- ZoneStacking reduces the installation costs and time while increasing reliability. With this advanced control feature, the Evergreen Pro boiler maintains optimal efficiency through lead-lag rotation and balanced heat loading.



EFFICIENCY ADVANTAGE

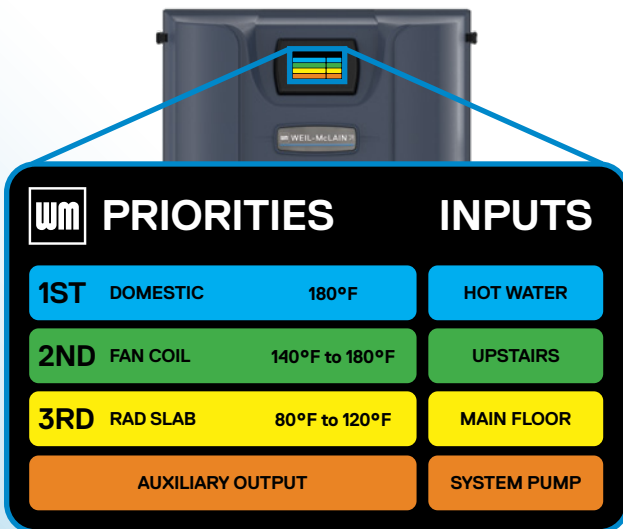
Evergreen Pro is Weil-McLain's premium residential gas boiler. It's designed to be easy to install and service, with a long-lasting stainless steel firetube heat exchanger and our next-generation color touchscreen control with multi-zone and other advanced capabilities. It can be installed as a floor standing unit or mounted on a wall, and has a common parts approach across all models.

Evergreen Pro water boilers with durable stainless steel firetube heat exchangers and advanced Unity® 2.0 controller are available in five sizes ranging from 110-399 MBH. Suitable for residential and light commercial applications, these premium boilers meet the highest standards of America's leading boiler manufacturer.

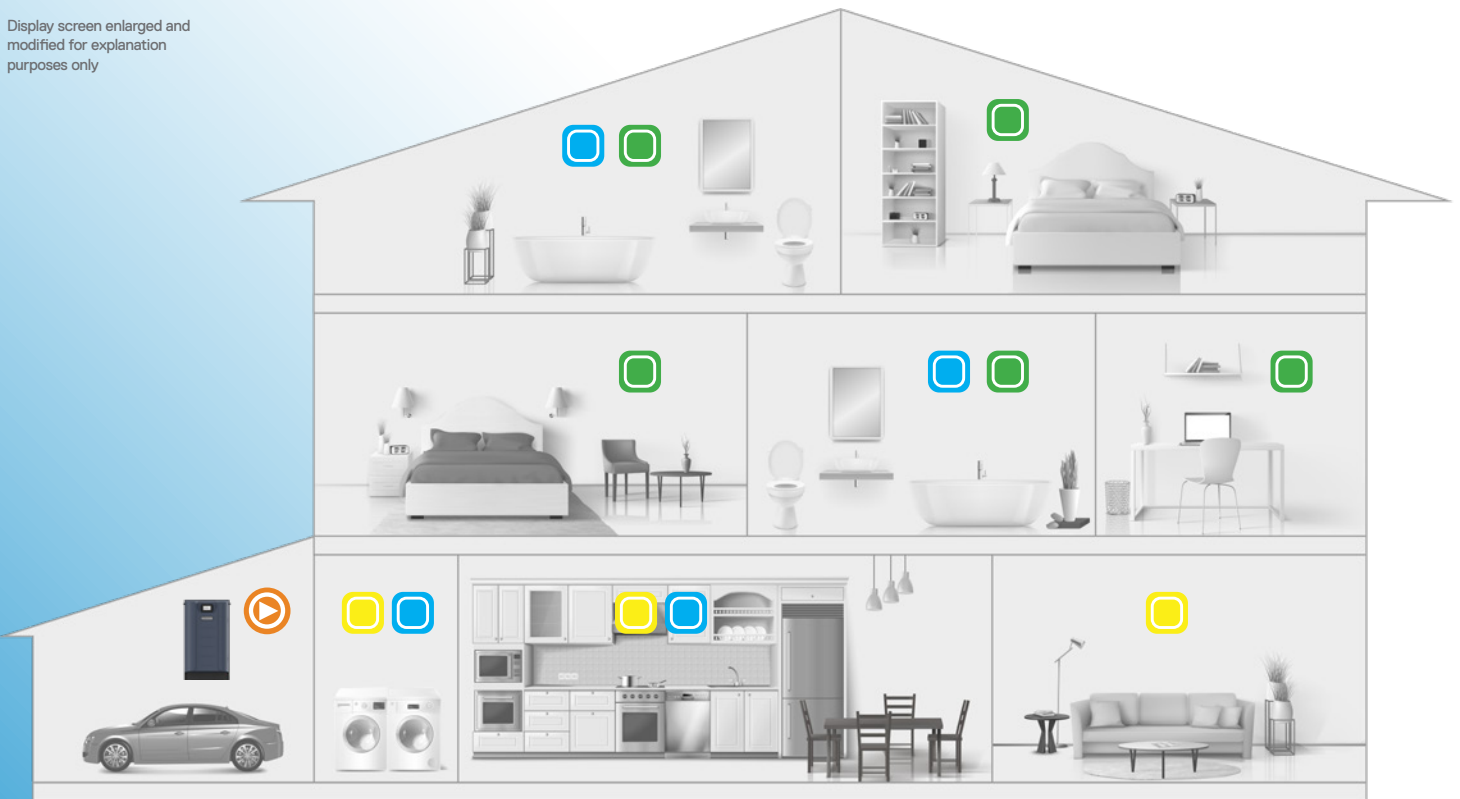


Weil-McLain is dedicated to simplified and targeted comfort. Our next-generation Unity 2.0 control is equipped with 10 preloaded system-type options to choose from and even has a guided setup wizard—making start-up as easy as a touch on the screen.

We understand heating systems. 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 home is set up on each system by color code.

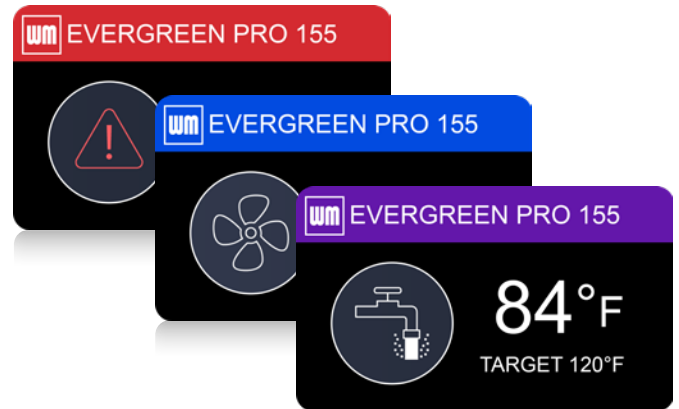
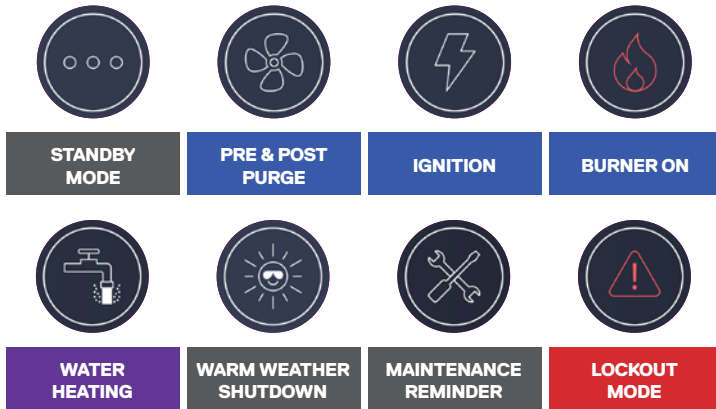


Display screen enlarged and modified for explanation purposes only



CONTROL ADVANTAGE

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



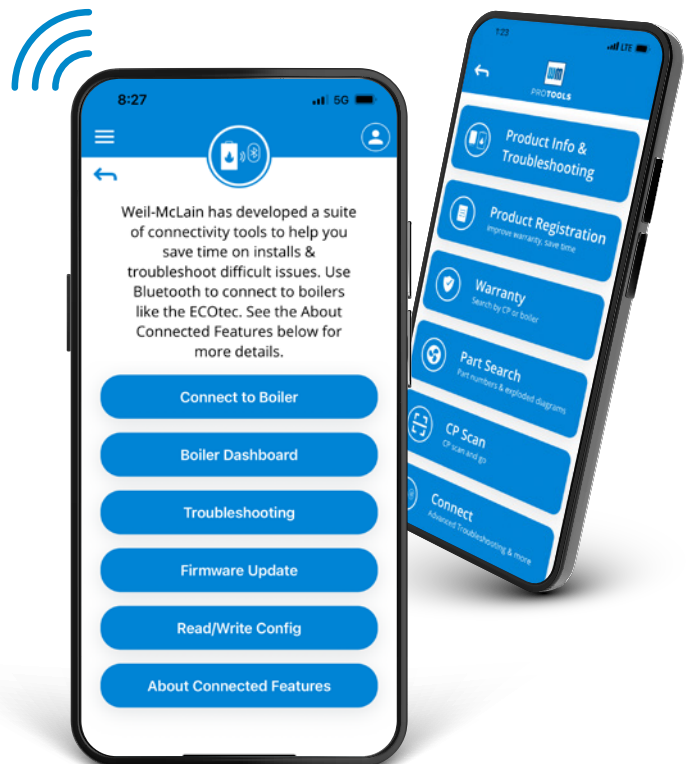
Forget when to have a checkup? We've got you covered.

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 appear on the screen as well.

CONNECTIVITY ABILITY

Download the Weil-McLain ProTools® app on your smartphone and connect to the boiler using Bluetooth® wireless technology. Easy to read dashboard, showing all critical information at a glance

- Records boiler operation, aiding service and maintenance procedures
- Real-time video sharing with our tech group, to help resolve any operational issue quickly
- Access to all product and warranty information—and register your boiler too
- “Clone to Phone” feature, you can copy settings from one boiler to another making set up a breeze
- Retrieve the latest software and update your boiler with the latest settings and features
- No extra service connection device to purchase



Scan to download the app



Bluetooth® Connect



PROTOOLS

SPECIFICATIONS

MODEL	EVG 110	EVG 155	EVG 220	EVG 299	EVG 399
CSA INPUT (MBH)	110	155	220	299	399
DOE HEATING CAPACITY (MBH)	101	143	206	280	383*
NET AHRI (MBH)	88	124	179	243	333
DOE AFUE	95.0%	95.1%	95.0%	95.0%	96.5%*
VENT MATERIAL	PVC, CPVC, PP, SS (AL29-4C)	PVC, CPVC, PP, SS (AL29-4C)	PVC, CPVC, PP, SS (AL29-4C)	PVC, CPVC, PP, SS (AL29-4C)	PVC, CPVC, PP, SS (AL29-4C)
VENT/COMBUSTION AIR CONNECTION DIAMETER	3"	3"	4"	4"	4"
VENT/COMBUSTION AIR PIPE SIZE	3"	3"	3" or 4"	4"	4"
VENTING LENGTH	100'	100'	100'	100'	100'
MIN. RECOMMENDED PIPE SIZE	1"	1¼"	1¼"	1½"	1½"
SUPPLY/RETURN TAPPING	1"	1¼"	1½"	1½"	1½"
GAS CONNECTION SIZE	½"	½"	¾"	¾"	¾"
APPROX. SHIPPING WEIGHT (Lbs.)	125	145	215	260	260
WATER VOLUME (Gal.)	2.5	3.2	4.6	7.0	6.7

*Evergreen Pro 399 ratings are gross output and combustion efficiency

FEATURES:

BOILER

- Stainless steel firetube heat exchanger
- Non-metallic heat exchanger base
- Floor standing or wall-mount
- Natural or LP gas
- Negative regulated combustion
- 5 to 1 turndown ratio (110–155)
- 10 to 1 turndown ratio (220–399)
- Boiler circulator
 - Taco ECM 007e (110)
 - Taco ECM 0015e (155)
 - Taco 0014 (220/299)
 - Taco 0013 (399)
- Low water cut-off
- Supply & return system sensors
- Outdoor temperature sensor

VENTING*

- Direct vent 100 ft. for intake and 100 ft. for vent
- Dual pressure zones (sidewall air intake, roof vent)
- Common combustion air
- Direct exhaust

CONTROL FEATURES

- Color touchscreen display
- Easy setup with control wizard
- Zone and/or priority-based control
- 4 Thermostat inputs
- 0-10V input (modulation or setpoint)
- Outdoor reset for each priority
- Rate adjustable per priority
- 4 Outputs can be used with external circulators, dampers or system aux
- Aux inputs—flow switch or end switch
- Aux outputs—system pump or damper
- Individually fused 120V outputs
- Modbus connectivity
- Additional heat demand contact

JACKET ASSEMBLY

- Fully removable jacket door
- Adjustable boiler legs
- On/off power switch (220–399)
- Line voltage service receptacle (220–399)
- Mounting bracket ready for wall-mount kit
 - Shipped standard with 110–155
 - Optional kit for 220–399
- Condensate trap

OPTIONAL EQUIPMENT:

- Wall-mount kit (220–399)
- Concentric vent kit
- Condensate neutralizer kit
- Sidewall vent/air termination kit
- Maintenance kits
- Water treatment—inhibitor & test kit
- Propane conversion kit
- Prefab manifold kits
- Modbus converter to BacNet or Lonworks
- Parts kit

WARRANTY:

Transferable, Non-Prorated

RESIDENTIAL

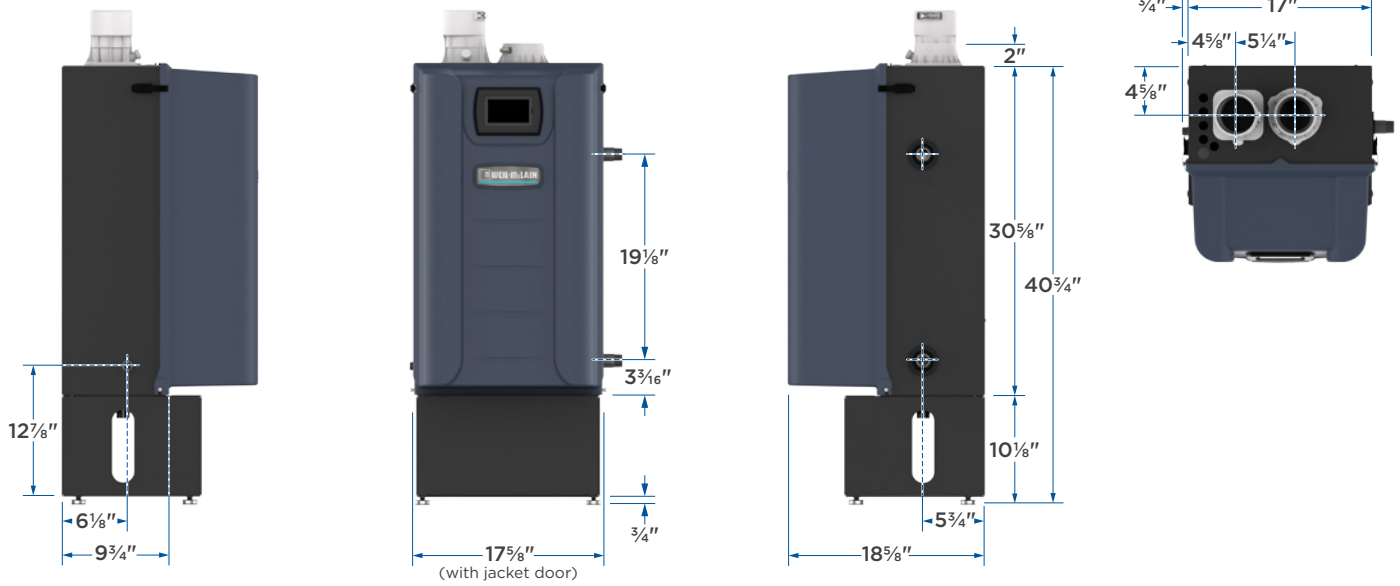
- 12-year heat exchanger limited warranty
- 2 years on parts without registration or **5 years on parts with registration**

COMMERCIAL

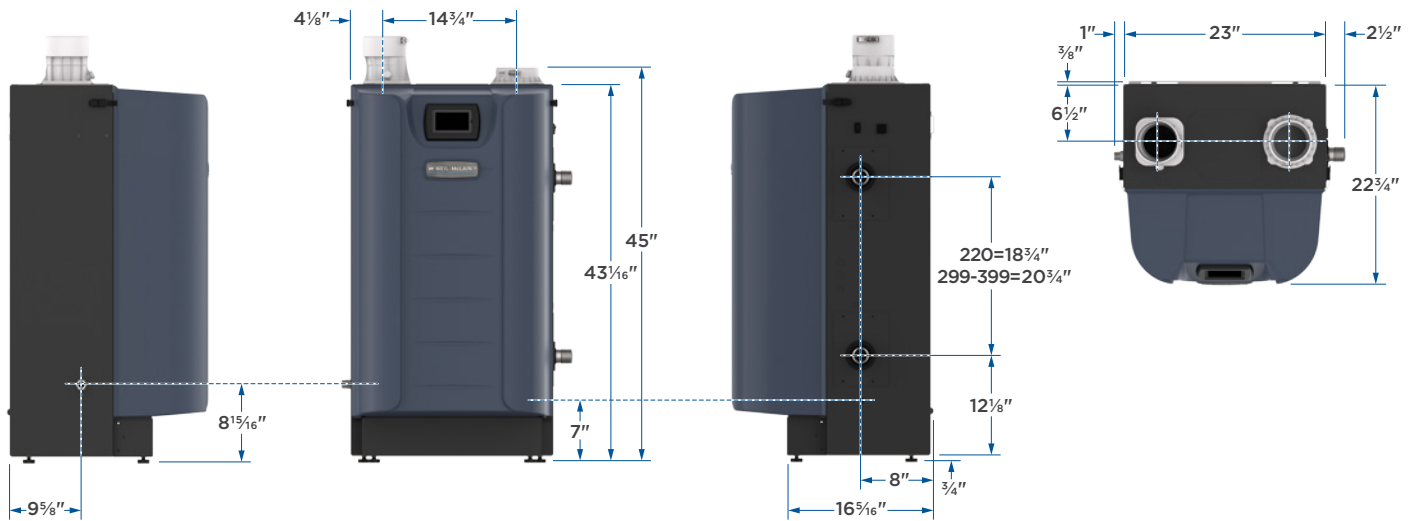
- 10 years on primary heat exchanger
- 1 year on parts

DIMENSIONS

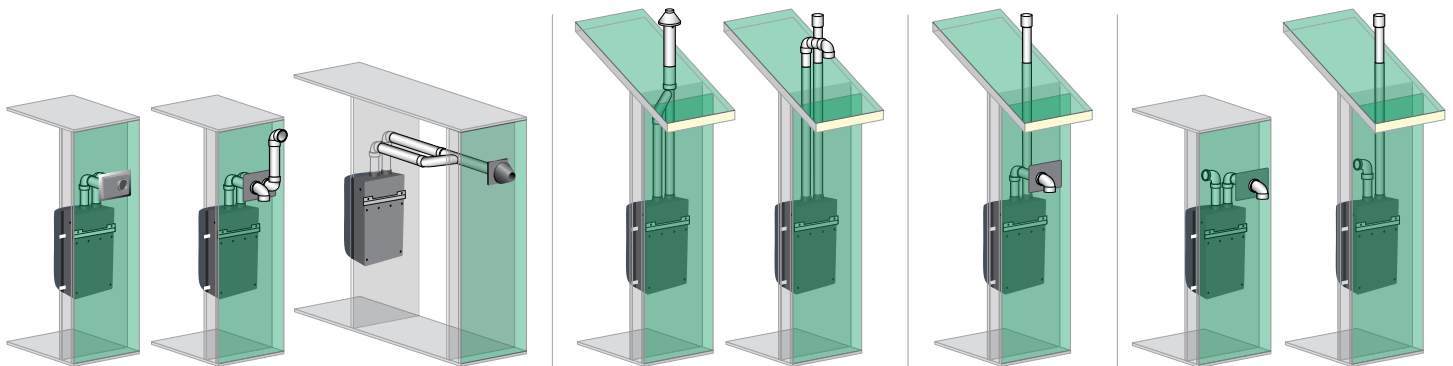
MODEL 110-155



MODEL 220-399



MULTIPLE VENTING OPTIONS



Not applicable to the 110 model

Sidewall direct vent

Through-the-roof direct vent

Dual pressure zones

Direct exhaust

MULTIPLE BOILER SEQUENCING

The flexibility of the Evergreen Pro boiler system reduces setup time and keeps costs down.

SERIES Sequencing	PARALLEL Sequencing	SMART Sequencing
<p>Higher Part-Load Efficiency →</p> <p>← Quicker Boiler Response Time</p>		
<p>STAGE 1 – Lead boiler modulates up to a maximum of 100% before turning on the next boiler in the sequence. The STABILIZE TIME allows time for the boilers to modulate to meet system demand before turning on additional boilers.</p>	<p>STAGE 1 – Lead boiler modulates up to a maximum of Base Rate High before turning on the next boiler in the sequence. The STABILIZE TIME allows time for the boilers to modulate to meet system demand before turning on additional boilers.</p>	<p>STAGE 1 – Lead boiler modulates up to a low firing rate before turning on the next boiler in the sequence. The STABILIZE TIME allows time for the boilers to modulate to meet system demand before turning on additional boilers.</p>
<p>STAGE 2 – Boiler #2 in sequence ignites and both boilers modulate to so their combined energy output matches the energy output of Boiler #1 at 100%. After a short MOD DELAY TIME, the boilers will be released to modulate.</p>	<p>STAGE 2 – Boiler #2 in sequence ignites and both boilers modulate to so their combined energy output matches the energy output of Boiler #1 at Base Rate High. After a short MOD DELAY TIME, the boilers will be released to modulate.</p>	<p>STAGE 2 – Boiler #2 in sequence ignites and both boilers modulate to BASE RATE LOW. After a short MOD DELAY TIME, the boilers will be released to modulate.</p>
<p>STAGE 3 – Both boilers modulate up to a maximum of 100% before turning on the next boiler in the sequence. The STABILIZE TIME allows time for the boilers to modulate to meet system demand before turning on additional boilers.</p>	<p>STAGE 3 – Both boilers modulate up to a maximum of Base Rate High before turning on the next boiler in the sequence. The STABILIZE TIME allows time for the boilers to modulate to meet system demand before turning on additional boilers.</p>	<p>STAGE 3 – Both boilers modulate up to a low firing rate before turning on the next boiler in the sequence. The STABILIZE TIME allows time for the boilers to modulate to meet system demand before turning on additional boilers.</p>
<p>STAGE 4 – Boiler #3 in sequence ignites and then all boilers modulate to so their combined energy output matches the energy output of Boilers #1 and #2 at 100%. After a short MOD DELAY TIME, the boilers will be released to modulate.</p>	<p>STAGE 4 – Boiler #3 in sequence ignites and then all boilers modulate to so their combined energy output matches the energy output of Boilers #1 and #2 at Base Rate High. After a short MOD DELAY TIME, the boilers will be released to modulate.</p>	<p>STAGE 4 – Boiler #3 in sequence ignites and then all boilers modulate to BASE RATE LOW. After a short MOD DELAY TIME, the boilers will be released to modulate.</p>
<p>STAGE 5 – After all available boilers are firing, boilers are released to modulate up to 100% of rate.</p>	<p>STAGE 5 – After all available boilers are firing, boilers are released to modulate up to 100% of rate.</p>	<p>STAGE 5 – After all available boilers are firing, boilers are released to modulate up to 100% of rate.</p>

THREE SELECTABLE SEQUENCING MODES TO CHOOSE FROM

- Series Sequencing**
 Quickest—boiler goes to 100% before another boiler is turned on; output is achieved more quickly with less total burner hours
- Parallel Sequencing**
 Efficiency and speed- based on Base Rate High; Hybrid mode between Smart and Series modes; boilers will go to user-programmed base rate high before turning on the next boiler
- Smart Sequencing**
 Most efficient—maximizes part-load efficiency by turning on as many boilers as possible

PROGRAMMABLE PREFERENCES FOR MULTIPLE BOILER SETUPS

- Multiple Boiler Sequencing**
 User selects what point one boiler stops modulating before turning on another boiler
- Lead Lag Rotation**
 User selects which boiler turns on first and can choose based on burner hours, fixed rotation or no rotation
- Input/Output Options**
 Input and outputs can be used for every boiler with up to 24 capable input/output pairs
- Redundant Sensors**
 If one system supply or outdoor temperature sensor fails, there are backups. If backups fail, the system can still run on a special safety mode
- Auxiliary Output Flexibility**
 Ability to control system circulators, combustion air dampers and/or other auxiliary system components



Questions? Contact Weil-McLain Support Services at 800-654-2109 or visit www.weil-mclain.com

