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UPDATED EXTERIOR

Same Trusted Interio

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EVERGREEN[®] PRO

HIGH-EFFICIENCY CONDENSING BOILER

Water | Natural or Propane Gas | 110–399 MBH | 5 Sizes Direct Exhaust or Direct Vent | Up to 95.1% AFUE⁺

EASY HEAT, EFFORTLESS COMFORT EVERGREEN[®] Pro

Commercial-Grade Controls for Residential and Light-Commercial Applications

AHR CERTIFIED

[†]Model Dependent

DURABLE Stainless steel firetube heat exchanger **FLEXIBLE** 24-zone capacity Floor standing/wall mount **EASY** Control presets Accessible parts

APPLICATIONS

The Evergreen® Pro boiler extends comfort levels to every area of your property for the long run. The Evergreen Pro is perfect for residential applications or light commercial and single or multi-unit installations with **ZoneStacking**® up to 24 programmable zones. It's everything you want in heating: quiet operation, aesthetically pleasing design, floor standing or wall mount options, environmental sustainability, heating comfort while optimizing energy savings.







EASE OF INSTALLATION

- Setup wizard efficiently guides the installer through a single or multiple boiler installation in minutes
- For the contractor, installer and/or service provider, the Evergreen Pro has an easy to understand graphical user Interface and makes programming and monitoring operations simple
- Wiring diagrams provided are clear and easily accessible

EASE OF USE

- Interactive diagnostic capability
- Reliable operation
- Easy to understand and monitor controls
- Effortless heating and comfort in all zones

EASE OF MAINTENANCE

- Large, accessible cabinet for quick and easy maintenance checks
- Interactive diagnostic capability provides a snapshot of the past and current operation parameters
- Vertical heat exchanger design promotes "self rinsing" during operation

RESIDENTIAL

Stay *effortlessly comfortable* in any home environment with the new 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.

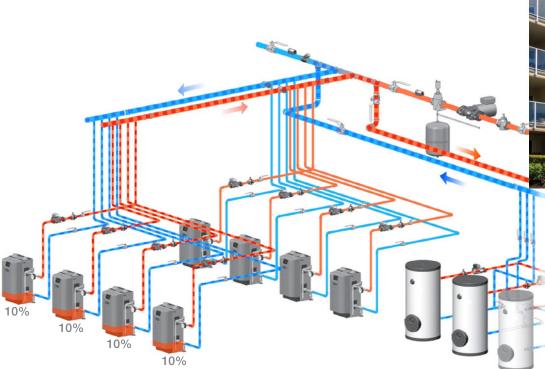
- The Evergreen Pro's sleek, modern design adds value to the home or property.
- Ease of programmability makes achieving comfort simple.
- For the homeowner who wants heating comfort while maintaining lower utility bills and reducing their carbon footprint, the Evergreen Pro 110-299 boilers have earned 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.



Available Easy-Up-Manifold kit saves you time and money while eliminating piping errors.



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.
- Compatible with the SlimFit® and SVF[™] commercial boilers, to connect and operate in unison.



SIMPLE INTERFACE— COMPLEX CALCULATIONS

Straightforward, user-friendly design with advanced technology.

What's happening behind the scenes? Complex calculations of the required energy to meet system demands is distributed across all the boilers in the network.

System maximizes user's comfort by simultaneously meeting as many system demands as possible: When there are multiple requests on a cascaded boiler system, the control satisfies both local and network heating demands.

Setup is easy. The built-in wizard asks direct questions on setup, making customization easy and straightforward. Contextual help is also available on screen.

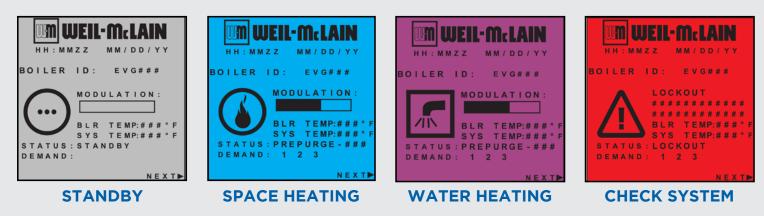
INNOVATIVE CONTROL SYSTEM FEATURES

- 3 programmable priorities for up to three heat inputs
- Text display for easy operation monitoring and diagnostics
- 0-10 VDC input modulation
- Additional heat demand contact for hybrid system
- Integrated low water protection



- Dual temperature sensors on boiler outlet and flue
- Blower speed modulation

Visual Communication Screens



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)				
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″	11⁄4″	11⁄4″	11⁄2″	1½″
SUPPLY/RETURN TAPPING	1″	11⁄4″	11⁄2″	11⁄2″	1½″
GAS CONNECTION SIZE	1⁄2″	1⁄2″	3⁄4″	3⁄4″	3⁄4″
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

- Easy installation with Setup Wizard
- Zone and/or priority based control
- Three thermostat inputs
- Outdoor reset for each priority
- Rate adjustable per priority
- 0-10V input (modulation or setpoint)
- Four total outputs
 - 1 dedicated boiler circulator output
 - 3 additional outputs can be used with circulators, dampers, or system aux
- Aux inputs—flow switch or end switch
- Aux outputs—system pump or damper
- 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

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

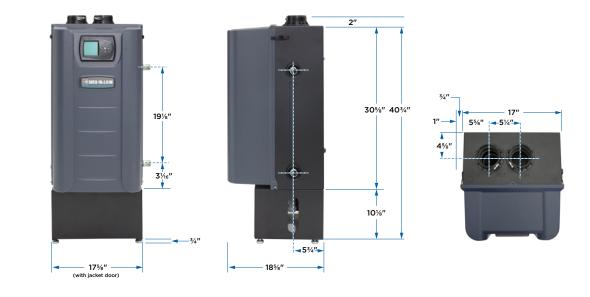




DIMENSIONS

MODEL 110-155

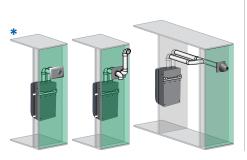


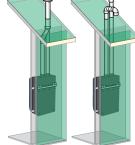


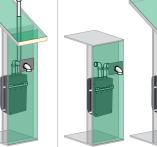
MODEL 220-399

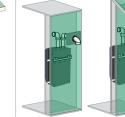


MULTIPLE VENTING OPTIONS









Sidewall direct vent

* Cannot be used on the 110 size

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.



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 speedbased on Base Rate High; Hybrid mode between
 Smart and Series modes;
 boilers will go to userprogrammed base rate
 high before turning on
 the next boiler
- SmartSequencing® 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



Weil-McLain Support Services: 800-654-2109