



# WEIL-McLAIN®

## Full Line Catalog



# Unmatched high efficiency product selection

Weil-McLain has a full product line to satisfy every application need.

## Evergreen: Premium Stainless Steel

- Award-winning stainless steel with advanced, easy to use controls
- Available in 6 sizes from 70K-399K



### WM97+:

- Fastest, easiest and cleanest installation



### ECO:

- Single-zone high-efficiency heating



## Ultra Series 4: Great value, corrosion-resistant

- Corrosion-resistant, coated aluminum heat exchanger
- Great value
- Available in 6 sizes from 80K-399K

## AquaBalance Series 2: The cold-weather combi

- Low pressure drop provides reliable cold-weather heating performance
- Easy to service—open design, accessible from 3 sides
- Combi and heat-only models available in 3 sizes each



Great for  
high temp  
systems



## GV90+: Longevity and high efficiency

The best of both worlds:

- Industry-leading, dependable cast iron
- High efficiency performance

Weil-McLain.com | Phone: 800-654-2109



Weil-McLain is a leading North American designer and manufacturer of hydronic comfort heating systems for residential, commercial and institutional buildings since 1881.

**Residential High-Efficiency Condensing Gas Boilers 5**

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**Evergreen®**  
Stainless Steel  
Firetube Boiler



**Ultra®**  
Nano-Coated  
Aluminum Boiler



**WM97+®**  
Stainless Steel  
Firetube Boiler



**ECO®**  
Stainless Steel  
Firetube Boiler



**AquaBalance®**  
Stainless Steel Watertube  
Combination or Heat-Only Boiler



**GV90+®**  
Cast Iron Boiler



EASY HEAT, EFFORTLESS COMFORT

# Evergreen

## SPECIFICATIONS

MODEL	EVG 70	EVG 110	EVG 155	EVG 220	EVG 299	EVG 399
CSA INPUT (MBH)	70	110	155	220	299	399
DOE HEATING CAPACITY (MBH)	65	101	143	206	280	383*
NET AHRI (MBH)	57	88	124	179	243	333
AFUE	95.2%	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)	PVC, CPVC, PP, SS (AL29-4C)
VENT/COMBUSTION AIR CONNECTION DIAMETER	3"	3"	3"	4"	4"	4"
VENT/COMBUSTION AIR PIPE SIZE	2" or 3"	3"	3"	3" or 4"	4"	4"
VENTING LENGTH	100'	100'	100'	100'	100'	100'
MIN. RECOMMENDED PIPE SIZE	1"	1"	1¼"	1¼"	1½"	1½"
SUPPLY/RETURN TAPPING	1"	1"	1¼"	1½"	1½"	1½"
GAS CONNECTION SIZE	½"	½"	½"	¾"	¾"	¾"
APPROX. SHIPPING WEIGHT (Lbs.)	125	125	145	215	260	260
WATER VOLUME (Gal.)	2.5	2.5	3.2	4.6	7.0	6.7

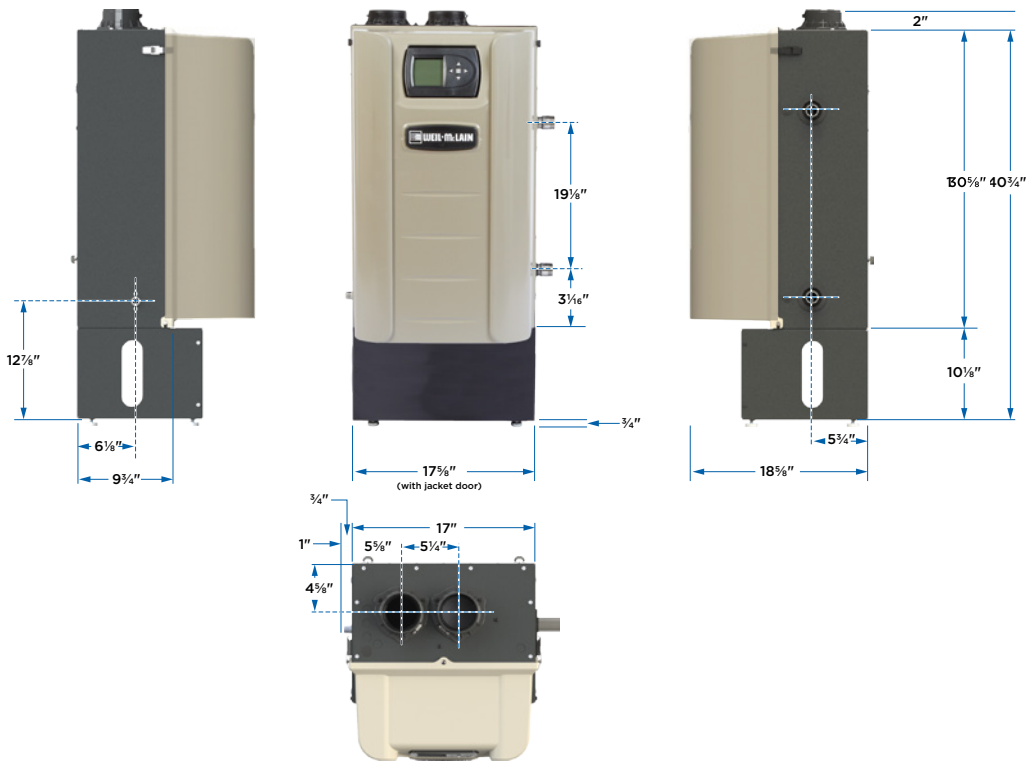
\*Combustion Efficiency

†Model Dependent

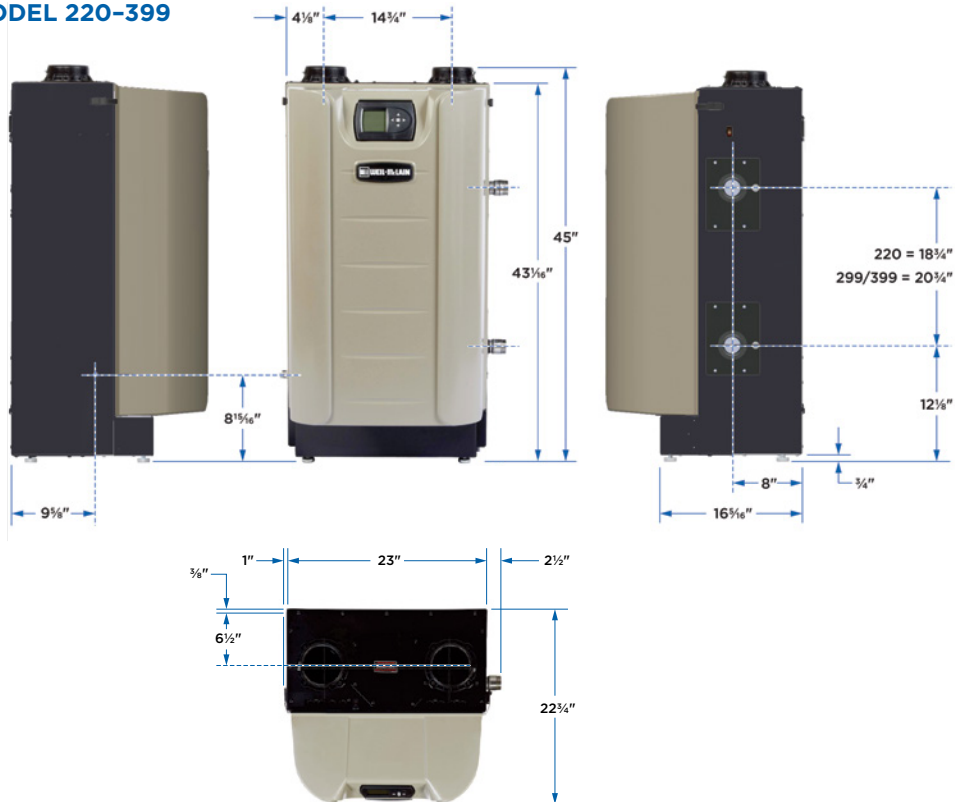


## DIMENSIONS

### MODEL 70-155



### MODEL 220-399



## STANDARD EQUIPMENT:

### 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 (70-155)
- 10 to 1 turndown ratio (220-399)
- Boiler circulator
  - Taco ECM 007e (70/110)
  - Taco ECM 0015e (155)
  - Taco 0014 (220/299)
  - Taco 0013 (399)
- Low water cut-off

### VENTING

- Direct vent 100 ft. for intake and 100 ft. for vent
- Direct exhaust
- Dual pressure zones
- Common combustion air

### 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 front door
- Adjustable boiler legs
- On/off power switch (220-399)
- Line voltage service receptacle (220-399)
- Mounting bracket ready for wall-mount kit (70-155)
- Condensate trap

### OPTIONAL EQUIPMENT:

- Wall-mount kit (220-399)
- Concentric vent kit
- Condensate neutralizer kit
- Sidewall vent/air termination kit
- Maintenance kits
- Propane conversion kit
- Easy-Up manifold kit
- Service parts kit
- Water treatment—inhibitor & test kit

### LIMITED WARRANTY:

- Residential: 12 Years Heat Exchanger; 5 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

**HIGH-EFFICIENCY CONDENSING BOILER**

Water | Natural or Propane Gas | 80-399 MBH | 6 sizes  
Series 4 | Direct Exhaust or Direct Vent | Up to 94.1% AFUE†



**HIGH EFFICIENCY  
CONDENSING BOILER**

# Ultra

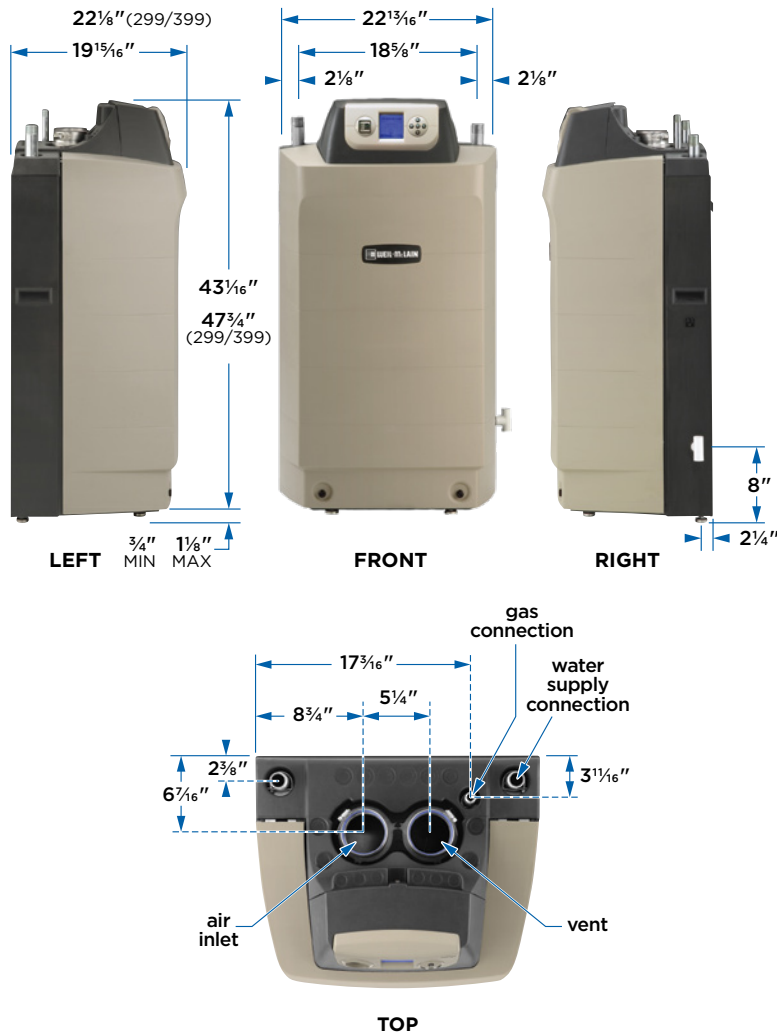
The new Ultra Series 4 features a nano-coated heat exchanger to maximize efficiency and service life.

†Model Dependent





## DIMENSIONS



DIMENSIONS	Ultra 80	Ultra 105	Ultra 155	Ultra 230	Ultra 299	Ultra 399
Min. Recommended Pipe Size	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Supply Tappings	1"	1"	1"	1"	1 1/4"	1 1/4"
Return Tappings	1"	1"	1"	1"	1 1/4"	1 1/4"
Gas Connection Size	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"

## SPECIFICATIONS

RATINGS	Ultra 80	Ultra 105	Ultra 155	Ultra 230	Ultra 299	Ultra 399
CSA Input (Maximum)	80 MBH	105 MBH	155 MBH	230 MBH	299 MBH	399 MBH
CSA Input (Minimum)	16 MBH	21 MBH	31 MBH	46 MBH	62 MBH	80 MBH
DOE Heating Capacity	71 MBH	94 MBH	139 MBH	207 MBH	270 MBH	*364 MBH
Net AHRI	62 MBH	82 MBH	121 MBH	180 MBH	235 MBH	317 MBH
AFUE	93.5%	94%	94%	94.1%	92.5%	*91.7%

\*Combustion Efficiency

DATA	Ultra 80	Ultra 105	Ultra 155	Ultra 230	Ultra 299	Ultra 399
Vent Size	2" or 3"	2" or 3"	3"	3" or 4"	4"	4"
Vent Material	PVC/ CPVC/PP	PVC/ CPVC/PP	PVC/ CPVC/PP	PVC/ CPVC/PP	PVC/ CPVC/PP	PVC/ CPVC/PP
Combustion Air Size	2" or 3"	2" or 3"	3"	3" or 4"	4"	4"
Water Volume	.69 Gal.	.82 Gal.	1.17 Gal.	1.57 Gal.	2.1 Gal.	2.1 Gal.
Approx. Shipping Weight	199 Lbs.	207 Lbs.	234 Lbs.	246 Lbs.	297 Lbs.	297 Lbs.

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

## STANDARD EQUIPMENT:

### BOILER

- Cast aluminum block
- 30 PSI ASME relief valve
- Drain valve
- Stainless Steel Burner (80, 105) with woven steel fiber mesh (155, 230, 299 & 399)
- Direct spark ignition
- Variable speed blower assembly
- Venturi mixing system with air silencer
- Negative pressure regulated gas valve
- 50 VA transformer
- Dual scale temp. & pressure gauge
- Outlet water temp. sensor
- Inlet water temp. sensor
- Flue gas temp. sensor
- Outdoor temp. sensor
- System water temp. sensors
- Fully removable jacket front
- Adjustable boiler legs
- On/off power switch
- Condensate trap with drain tee assembly
- Propane conversion orifice (all except model 80)

### U-CONTROL MODULE

- 3.5" LCD display
- Three boiler priorities with multiple preset system configurations
- Color-coded removable terminal blocks
- Multiple boiler functionality
- Alarm control functionality
- Ignition control
- High limit & modulating temp. control
- Low water protection
- Outdoor reset
- Ability to control any combination of 3 circulators

### BOILER CIRCULATORS

- 1" Flanges (80 & 105) Taco 007e
- 1" & 1 1/4" Flanges (155 & 230) Taco 0014
- 1 1/4" & 1 1/2" Flanges (299) Taco 0014
- 1 1/4" & 1 1/2" Flanges (399) Taco 0013

### OPTIONAL EQUIPMENT

- Easy-Up manifold kit
- PVC concentric vent kit
- Sidewall termination cap
- Condensate neutralizer kit
- LWCO kit
- Wall mount kit
- Water treatment—inhibitor & test kit

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

**WALL-MOUNT GAS CONDENSING BOILER**

Water | Natural or Propane Gas | 110-155 MBH | 2 sizes  
Direct Exhaust or Direct Vent | Up to 95.1% AFUE†



WALL MOUNT GAS  
CONDENSING BOILER

# WM97+

**AquaLogic®**

**MATCH WITH THE WM97+  
COMPANION WATER HEATER**

for space saving endless hot water

†Model Dependent



## DIMENSIONS



Model	Supply Tapping (In.)	Return Tapping (In.)	Gas Connection Size (In.)	Minimum Recommended Pipe Size (In.)	Approx. Shipping Weight (Lbs.)
WM97+ 110 CT	1	1	1/2	1	136
WM97+ 155 CT	1 1/4	1 1/4	1/2	1 1/4	162

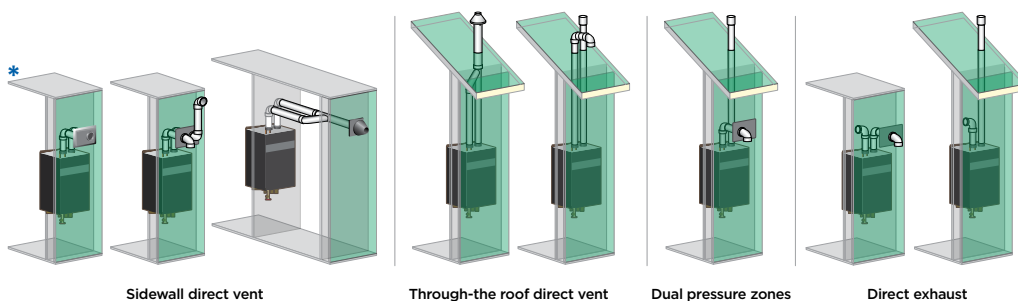
## SPECIFICATIONS

Model <sup>1</sup>	Input MBH		DOE Heating Capacity MBH	AFUE	Vent Diameter (In.)	Vent Material	Boiler Water Content (Gal.)
	Max	Min					
WM97+ 110 CT	110	22	101	95.0%	3	PVC, CPVC, PP, SS	2.8
WM97+ 155 CT	155	28	143	95.1%	3	PVC, CPVC, PP <sup>2</sup> , SS	3.4

<sup>1</sup>Natural gas field convertible to LP as standard equipment

<sup>2</sup>Requires Centrotherm SS concentric termination

## MULTIPLE VENTING OPTIONS



\*155 only

## STANDARD EQUIPMENT:

### BOILER

- Stainless steel heat exchanger
- 30 PSI ASME relief valve
- Drain valve
- Stainless steel burner with woven steel fiber mesh
- Direct spark ignition
- Variable speed blower assembly
- Venturi mixing system with air silencer
- Negative pressure regulated gas valve
- 50 VA transformer
- Dual scale temperature & pressure gauge
- Outlet water temperature sensor
- Inlet water temperature sensor
- Flue gas temperature sensor
- Outdoor temperature sensor
- Built in primary/secondary piping option
- Built in expansion tank<sup>3</sup>
- Indirect-fired water heater connections

### CONTROL MODULE

- 3.5" LCD display
- Three-zone circulator control with optional domestic hot water priority
- Pre-wired terminal blocks
- Alarm control functionality
- Ignition control
- High limit & modulating temperature control
- Outdoor reset

### INTERNAL BOILER CIRCULATOR<sup>4</sup>

- 1" flanges Taco 0015 (110)
- 1" rotated flanges Taco 0015 (155)

### COMPLETE JACKET ASSEMBLY

- Fully removable jacket front
- Mounting bracket
- On/off power switch
- Condensate trap
- Propane conversion orifice

### ADDITIONAL EQUIPMENT

- Concentric vent kit
- Condensate neutralizer kit
- Aqua Logic indirect-fired water heater
- Water treatment – inhibitor & test kit

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 12 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

<sup>3</sup>110 model only

<sup>4</sup>Circulator supplied with boiler cannot be removed and cannot be used as a zone circulator in multiple zone systems

**HIGH-EFFICIENCY CONDENSING BOILER**

Water | Natural or Propane Gas | 110-155 MBH | 2 sizes  
Direct Exhaust or Direct Vent | Up to 95.1% AFUE†



**HIGH EFFICIENCY  
WALL MOUNT BOILER**

# ECO

Durable stainless steel firetube heat exchanger.  
Streamlined design configurable for installation.

†Model Dependent



## DIMENSIONS

- 1 Boiler supply tapping: 1" NPT
- 2 Boiler return tapping: 1" NPT
- 3 Control display with navigation buttons
- 4 Electrical entrance openings
- 5 Vent connection: 3" PVC
- 6 Gas connection
- 7 Condensate trap nozzle
- 8 Air connection: 3" PVC



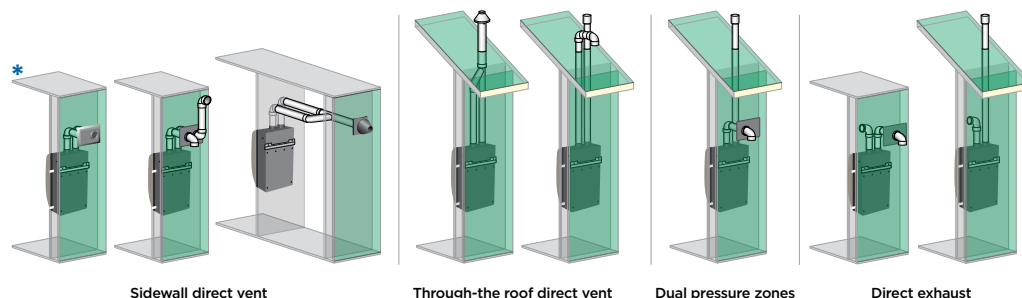
Model	Supply Tapping (in.)	Return Tapping (in.)	Gas Connection Size (in.)	Minimum Recommended Pipe Size (in.)	Approx. Shipping Weight (lbs.)
ECO 110	1	1	1/2	1	117
ECO 155	1 1/4	1 1/4	1/2	1 1/4	130

## SPECIFICATIONS

Model <sup>1</sup>	Input MBH		DOE Heating Capacity MBH	Net AHRI Water Ratings MBH	AFUE	Vent Diameter (in.)	Vent Material	Boiler Water Content (gal.)
	Max	Min						
ECO 110	110	22	101	88	95.0%	3	PVC, CPVC, PP, SS	2.5
ECO 155	155	28	143	124	95.1%	3	PVC, CPVC, PP, SS	3.2

<sup>1</sup>Natural gas field convertible to LP as standard equipment

## MULTIPLE VENTING OPTIONS



## STANDARD EQUIPMENT:

### BOILER

- Stainless steel heat exchanger
- 30 PSI ASME relief valve
- Drain valve
- Stainless steel burner
- Direct spark ignition
- Variable speed blower assembly
- Venturi mixing system with air silencer
- Negative pressure regulated gas valve
- 50 VA transformer
- Dual scale temperature and pressure gauge
- Outlet water temperature sensor
- Inlet water temperature sensor
- Flue gas temperature sensor
- Outdoor temperature sensor
- Low NOx SCAQMD compliant

### CONTROL MODULE

- 3.5" LCD screen
- Central heat circulator control
- DHW circulator control with priority
- Ignition control
- High limit & modulating temperature control
- Outdoor reset
- Freeze protection
- Circulator exercising

### COMPLETE JACKET ASSEMBLY WITH

- Fully removable jacket door
- Mounting bracket
- Condensate trap
- Propane conversion orifice

### OPTIONAL EQUIPMENT

- Concentric vent kit
- Condensate neutralizer kit
- Low water cut-off kit
- Sidewall vent/air termination kit
- Boiler stand kit
- Maintenance kits
- Water treatment – inhibitor & test kit

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 12 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts



**HEAT-ONLY AND COMBINATION  
GAS WALL MOUNT BOILERS**

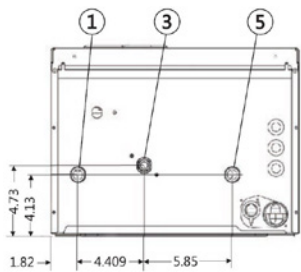


Efficiency and technology that exceeds the standard

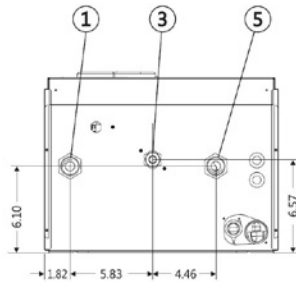
- Combi capacity supports simultaneous hot water uses
- Easy to install, compact design fits in tight spaces
- Easy serviceability and maintenance



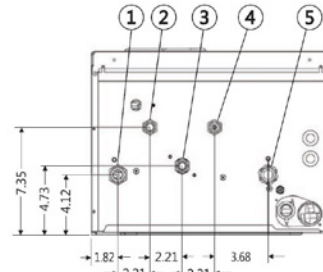
## DIMENSIONS



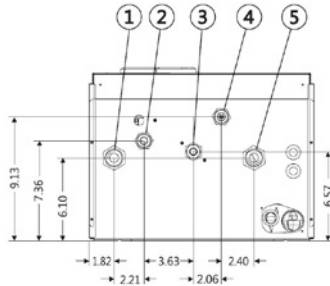
Heating Only Bottom (80/120)



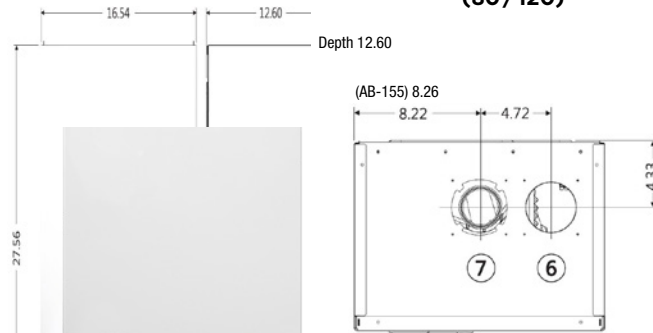
Heating Only Bottom (155)



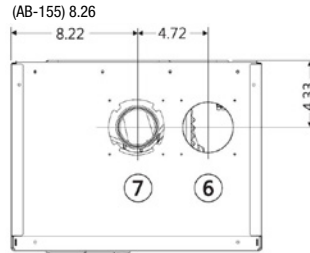
Combi Bottom (80/120)



Combi Bottom (155)



Front (80/120/155)



Top (80/120/155)

### Connections (NPT/Inches)

		80/120	155
1	Heating system supply tapping	3/4"	1"
2	Domestic hot water outlet	3/4"	3/4"
3	Gas connection	1/2"	3/4"
4	Domestic cold water supply	3/4"	3/4"
5	Heating system return tapping	3/4"	1"
6	Combustion air connection	3"	3"
7	Flue outlet connection	3"	3"

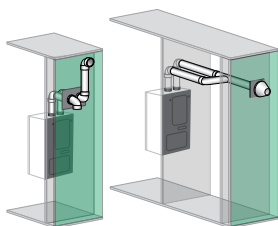
### Domestic Hot Water Flow Rate (Based on 70° temperature rise)

Model <sup>1</sup>	Gallons per minute
WMB-80C	2.0
WMB-120C	3.2
WMB-155C	4.0

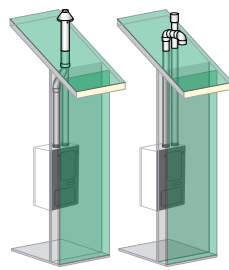
### Input MBH AHRI Certified Ratings

	Model <sup>1</sup>	Input MBH		AHRI Certified Ratings			Vent/air pipe size (Inches) <sup>4</sup>	Vent material	Boiler water content (Gallons)	Approx. shipping weight (Lbs.)
		Max.	Min.	DOE heating capacity MBH <sup>2</sup>	AFUE	Net water rating MBH <sup>3</sup>				
HEAT ONLY	AB-80	80	8	75	95.0%	65	2 or 3	PVC, CPVC, PP, SS	1.03	64
	AB-120	120	12	112	95.0%	97	2 or 3	PVC, CPVC, PP, SS	1.23	67
	AB-155	155	15.5	144	95.0%	125	2 or 3	PVC, CPVC, PP, SS	1.23	67
COMBI	AB-80C	80	8	75	95.0%	65	2 or 3	PVC, CPVC, PP, SS	1.11	77
	AB-120C	120	12	112	95.0%	97	2 or 3	PVC, CPVC, PP, SS	1.31	80
	AB-155C	155	15.5	144	95.0%	125	2 or 3	PVC, CPVC, PP, SS	1.33	87

## VENTING



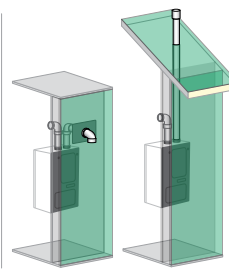
Sidewall direct vent



Through-the roof direct vent



Dual pressure zones



Direct exhaust

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

## STANDARD EQUIPMENT:

### BOILER

- Stainless Steel heat exchanger
- Mounting bracket and hardware
- Spark ignition
- Outdoor sensor
- Honeywell control
- Combination Pressure-Temperature Gauge
- 6' power cord
- Condensate drain
- Relief valve
- 3-in-1 Vent adapter
- Low NOx SCAQMD compliant

### COMBI MODELS

- DHW flat plate heat exchanger
- 3-speed circulator

### OPTIONAL EQUIPMENT

- Propane conversion kit
- Concentric vent kit
- Condensate neutralizer
- Easy-Up manifold kit
- Service parts kit
- Water treatment inhibitor & test kit

### LIMITED WARRANTY:

- Residential: 10 Years Heat Exchanger; 2 Years Parts
- Commercial: 5 Years Heat Exchanger; 2 Years Parts

<sup>1</sup>Natural gas field convertible to LP with optional kit.

<sup>2</sup>Based on standard test procedures prescribed by the United States Department of Energy. MBH refers to thousands of Btu per hour.

<sup>3</sup>Net 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 are based on piping and pick-up allowance of 1.15. An additional allowance should be made for unusual piping and pick-up loads.

<sup>4</sup>Boilers must be vented directly to the outdoors. See boiler manuals for details.

**HIGH-EFFICIENCY CAST IRON BOILER**

Water | Natural or Propane Gas | 70-175 MBH | 4 sizes  
Direct Exhaust or Direct Vent | Up to 91.9% AFUE†



**LEADING HIGH EFFICIENCY  
CAST IRON BOILER**

# GV90+

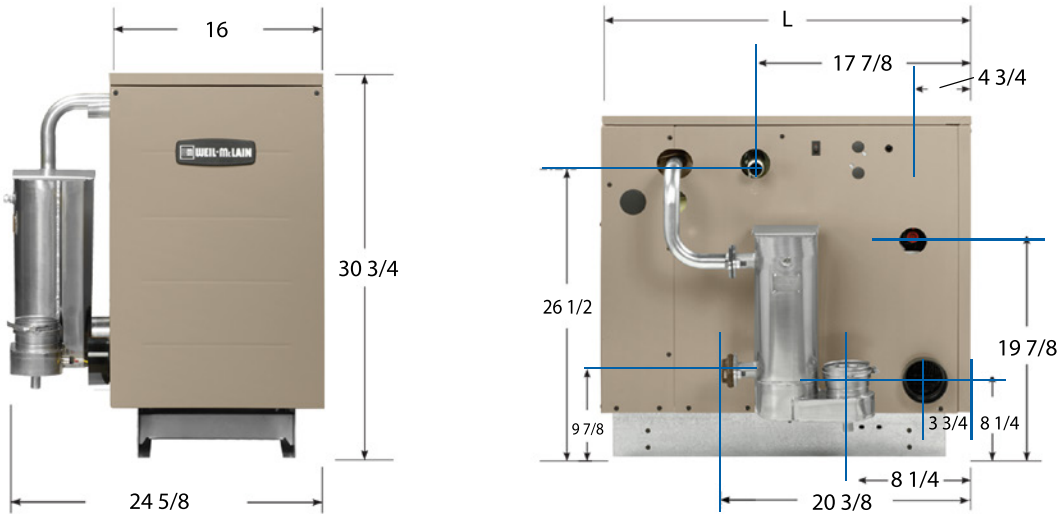
Proven cast iron longevity  
Durable design with low maintenance  
Streamline controls with simple setup

†Model Dependent

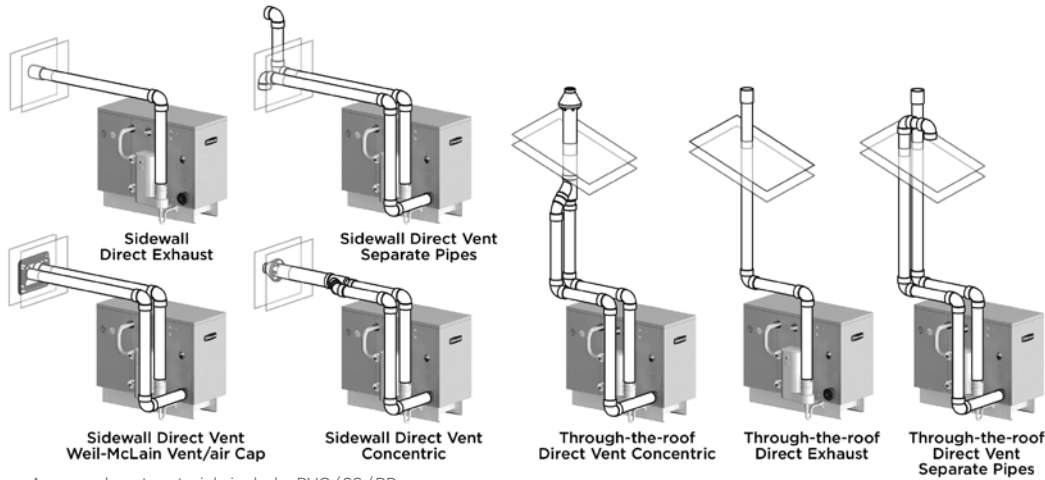




## DIMENSIONS



## INSTALLATION FLEXIBILITY WITH MULTIPLE VENTING OPTIONS



Approved vent materials include: PVC/SS/PP

PP vent material approved for use on boilers equipped with flue thermal switch only (not thermal fuse<sup>3</sup>).

## RATINGS

Model	Input MBH	DOE Heating Capacity MBH <sup>1</sup>	Net AHRI Rating, Water MBH <sup>2</sup>	AFUE	Vent Diameter <sup>3</sup>	Boiler Water Content (Gal.)	Length	Supply Tapping	Return Tapping	Gas Connection Size	Minimum Recommended Pipe Size	Approx. Shipping Weight (Lbs.)
GV90+3	70	65	56	91.9%	3"	3.8	30 3/4"	1"	1"	1/2"	1"	313
GV90+4	105	97	84	91.2%	3"	4.7	30 3/4"	1"	1"	1/2"	1"	353
GV90+5	140	130	113	91.4%	3"	6.0	37 3/4"	1"	1"	1/2"	1 1/4"	423
GV90+6	175	161	140	91.0%	3"	6.9	37 3/4"	1"	1"	1/2"	1 1/4"	464

Notes:

<sup>1</sup>Based on standard test procedures prescribed by the United States Department of Energy.

<sup>2</sup>Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing needs to be added for normal piping and pick-up. Ratings are based on a piping and pick-up allowance of 1.15. An additional allowance should be made for unusual piping and pick-up loads.

<sup>3</sup>GV90+ boilers must be vented directly to the outside.

## STANDARD EQUIPMENT:

### BOILER

- Factory Tested
- Insulated Extended Steel Jacket
- Cast Iron Sections with Built-in Air Separator
- Stainless Steel Secondary Heat Exchanger with Air Separator
- Steel Base
- Control Module with Indicator Lights
- Blower Assembly with Observation Port
- Gas/Air Manifold Assembly
- Gas/Air Orifice Plate for Natural Gas (separate plate furnished for conversion to propane)
- Stainless Steel Burner Cone and Ring Assembly
- Negative Regulation Gas Valve
- Hot Surface Ignition System
- Air Pressure Switch
- System Circulator\*
- Built-in-Bypass Circulator System with Sensor for Temperature Control\*
- Condensate Drain Trap
- Sidewall Vent Termination Kit\*\*
- 40VA Transformer
- Electrical Junction Box
- 30 PSI ASME Relief Valve (boiler sections & secondary heat exchanger tested for 50 PSI working pressure)
- Water Temperature Limit Switch
- Section Block Temperature Limit Switch
- Combination Pressure-Temperature Gauge
- Drain Valve

### ADDITIONAL EQUIPMENT:

- Concentric Vent Kit
- Condensate Neutralizer Kit
- Expansion Tank Package. #109-sizes 3 through 5; #110-size 6. Shipped in separate carton.
- High Altitude Kit
- Weil-McLain Indirect-fired Water Heaters
- Weil-McLain Pool Heaters
- Weil-McLain Baseboard Units

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 20 Years Primary Heat Exchanger; 5 Years Secondary Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Primary Heat Exchanger; 5 Years Secondary Heat Exchanger; 1 Years Parts

\*Circulators supplied with boiler cannot be removed and cannot be used as a zone circulator in multiple zone systems.

\*\* Includes inside and outside plates and hardware.

^ If necessary, order switch part #511-624-664.





**CGi**  
Induced Draft  
Water Gas Boiler



**CGa**  
Atmospheric  
Water Gas Boiler



**CGt**  
Built-In Tankless Heater  
Water Gas Boiler



**EG**  
Water or Steam  
Gas Boiler



**Ultra Oil**  
Water Oil Boiler



**WGO**  
Water without Tankless  
Heater Oil Boiler



**WTGO**  
Water with Tankless  
Heater Oil Boiler



**SGO**  
Steam with Tankless  
Heater Option  
Oil Boiler

**GOLD SERIES CAST IRON GAS BOILER**

Water | Natural or Propane Gas | 50–233 MBH | 7 sizes  
Series 3 | Induced Draft | Up to 95.1% AFUE†



**HIGH EFFICIENCY  
CAST IRON BOILER**

**CGi**

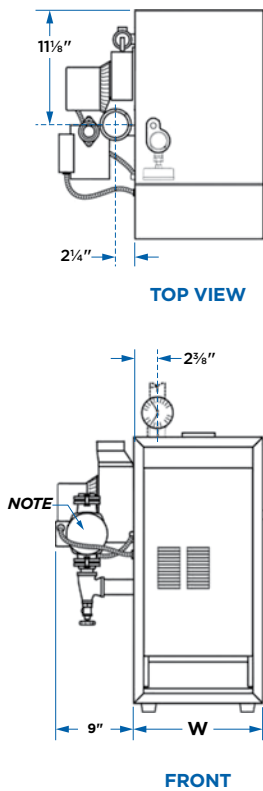
**APPLICATIONS INCLUDE:**

- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating

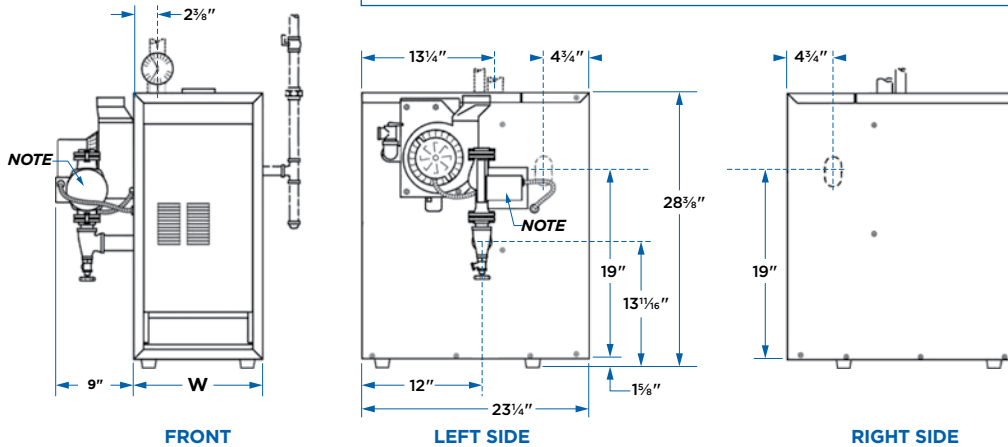
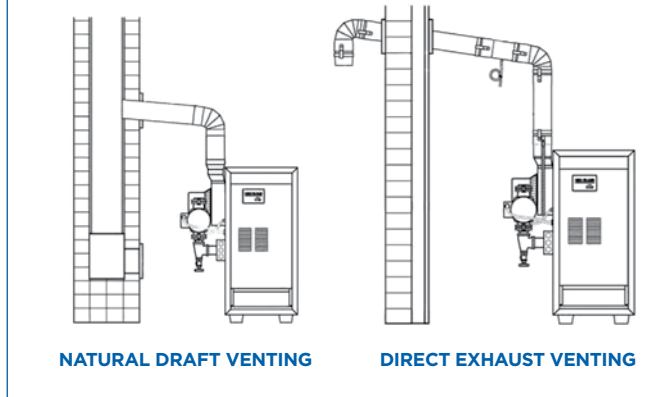
Inducer cover on sizes 25–5 only

†Model Dependent

## DIMENSIONS



## INDUCED DRAFT VENTING OPTIONS



**NOTE:** Boiler circulator is shipped loose. Circulator may be mounted on either boiler supply or return piping. See dimension chart for pipe size of circulator flange provided.

Model	Dimensions inches W	Supply Piping (in.) <sup>1</sup>	Return Piping (in.) <sup>1</sup>	Nat or LP Gas Connection Size (in.)
CGi-25	10	3/4	3/4	1/2
CGi-3	10	1	1	1/2
CGi-4	13	1	1	1/2
CGi-5	16	1	1	1/2
CGi-6	19	1 1/4	1 1/4	1/2
CGi-7	22	1 1/4	1 1/4	3/4
CGi-8	25	1 1/2	1 1/2	3/4

<sup>1</sup>Circulator flange supplied with boiler is the same size as recommended pipe size. For supply and return boiler tapping size, see installation manual.

## RATINGS

Model <sup>2</sup>	CSA Input MBH <sup>3</sup>	DOE Heating Capacity MBH <sup>3</sup>	Net AHRI Water Ratings MBH <sup>4</sup>	AFUE	Approx. Shipping Weight (Lbs.)	Boiler Water Content (Gal.)	Minimum Vent Connector Diameter <sup>5</sup>
CGi-25	50	42	37	84.0%	200	1.5	4" O.D.
CGi-3	60	51	45	85.1%	200	1.5	4" O.D.
CGi-4	90	76	66	85.0%	245	2.1	5" O.D.
CGi-5	119	100	87	83.3%	290	2.7	5" O.D.
CGi-6	167	140	122	83.3%	335	3.3	5" O.D.
CGi-7	200	167	145	83.0%	390	3.8	5" O.D.
CGi-8	233	194	169	82.7%	420	4.4	5" O.D.

<sup>2</sup>Add "PIN" for natural gas, "PIL" for propane.

<sup>3</sup>Based on standard test procedures prescribed by the United States Department of Energy.

<sup>4</sup>Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing needs to be added for normal piping and pick-up. Ratings are based on a piping and pick-up allowance of 115. An additional allowance should be made for unusual piping and pick-up loads.

<sup>5</sup>Refer to National Fuel Gas Code, ANSI Z223.1-latest edition for chimney sizing and vent connector lengths.

CGi boilers are C.S.A. design certified for installation on combustible flooring. Tested for 50 PSI working pressure.

## STANDARD EQUIPMENT:

### BOILER

- Factory tested
- Two-piece, top jacket panel
- Insulated extended steel jacket
- Cast iron sections with built-in air separator
- Radiation plates
- Steel base
- Integrated boiler control module with intermittent electronic ignition system & indicator/diagnostic lights
- Inducer assembly (with cover—sizes 25-5 only)
- Flue gas collector/transition assembly
- Combination gas valve for 24 volt
- Wiring harness
- Air pressure switch
- Non-linting pilot burner
- High-grade stainless steel burners
- 40 VA transformer
- Electrical junction box
- Rollout thermal fuse element
- High-limit temperature control
- Circulator (when ordered)
  - Sizes 25-5: Taco 007e
  - Sizes 6-8: Taco 007
- 30 PSI ASME relief valve (boiler sections tested for 50 PSI working pressure)
- Combination pressure-temperature gauge
- Drain valve

### ADDITIONAL EQUIPMENT:

- CGi AL29-4C stainless steel vent starter kit
- Outdoor reset kit (part #381-356-586) Low cost, simple plug-in sensor—check local utility program for possible rebate.
- Zone interface harness kit (part #381-356-585) Used to communicate between an existing relay panel wired into the system and boiler, to separate DHW from space heating demands.
- Expansion tank package—shipped in separate carton (expansion tank, fill & check valve, auto air vent and fittings)
- High Altitude Kits
- Weil-McLain five- and ten-year homeowner protection plan

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 20 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Years Parts

**GOLD SERIES CAST IRON GAS BOILER**

Water | Natural or Propane Gas | 52-245 MBH | 7 sizes  
Series 2 | Atmospheric/Natural Draft | Up to 84% AFUE†



**HIGH EFFICIENCY  
CAST IRON BOILER**

# CGa

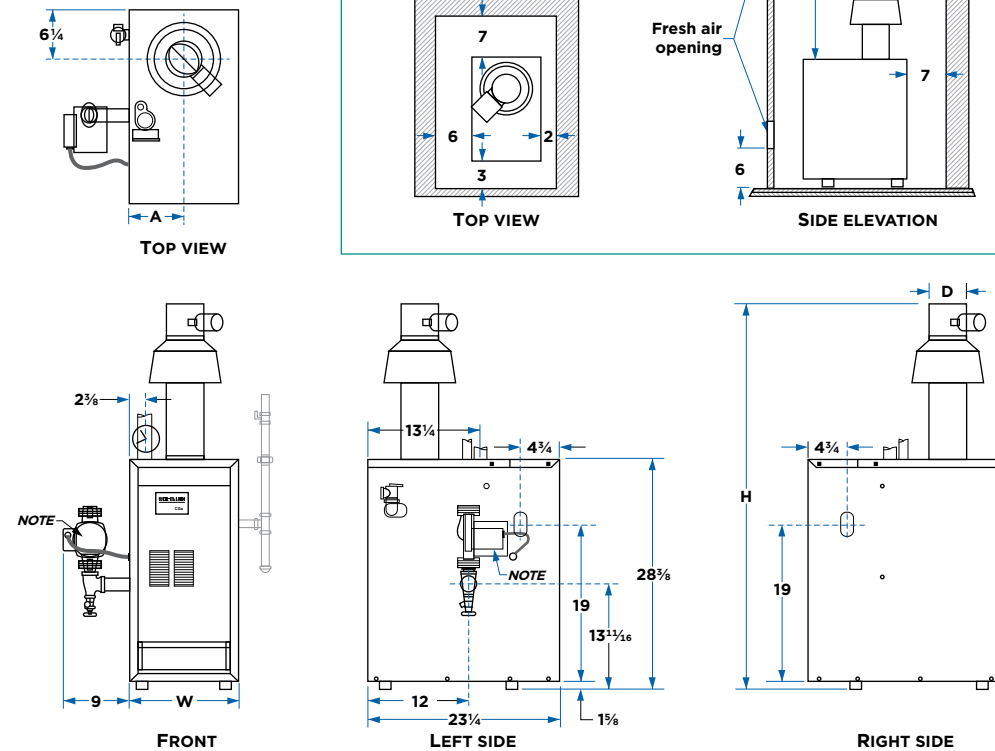
**APPLICATIONS INCLUDE:**

- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating

†Model Dependent



## DIMENSIONS



Note: Boiler circulator is shipped loose. Circulator may be mounted on either boiler supply or return piping. See dimension chart for pipe size of circulator flange provided.

Model	Dimensions (in.)				Supply Piping (in.) <sup>1</sup>	Return Piping (in.) <sup>1</sup>	Nat or LP Gas Connection Size (in.)	Carton Dimensions - Outside Measurements (in.)		
	A	D	W	H				L	W	H
CGa-25	5	4	10	45 $\frac{3}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	27	27 $\frac{1}{2}$	31 $\frac{1}{2}$
CGa-3	5	4	10	52 $\frac{3}{8}$	1	1	$\frac{1}{2}$	27	27 $\frac{1}{2}$	31 $\frac{1}{2}$
CGa-4	6 $\frac{1}{2}$	5	13	54 $\frac{3}{8}$	1	1	$\frac{1}{2}$	27	27 $\frac{1}{2}$	31 $\frac{1}{2}$
CGa-5	8	6	16	57 $\frac{3}{8}$	1	1	$\frac{1}{2}$	30	27 $\frac{1}{2}$	31 $\frac{1}{2}$
CGa-6	9 $\frac{1}{2}$	6	19	60 $\frac{3}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{1}{2}$	33	27 $\frac{1}{2}$	31 $\frac{1}{2}$
CGa-7	11	7	22	62 $\frac{3}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	$\frac{3}{4}$	36	27 $\frac{1}{2}$	31 $\frac{1}{2}$
CGa-8	12 $\frac{1}{2}$	7	25	64 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{3}{4}$	42	27 $\frac{1}{2}$	31 $\frac{1}{2}$

<sup>1</sup>Circulator flange supplied with boiler is the same size as recommended pipe size. For supply and return boiler tapping size, see installation manual.

## RATINGS

Model <sup>2</sup>	Input MBH <sup>3</sup>	DOE Heating Capacity MBH <sup>3</sup>	Net AHRI Water Ratings MBH <sup>4</sup>	AFUE	Approx. Shipping Weight (Lbs.)	Boiler Water Content (Gal.)	Chimney Size
CGa-25	52	44	38	84.0%	200	1.5	4" I.D. x 20'
CGa-3	70	59	51	84.0%	200	1.5	4" I.D. x 20'
CGa-4	105	88	77	84.0%	240	2.1	5" I.D. x 20'
CGa-5	140	117	102	83.5%	280	2.7	6" I.D. x 20'
CGa-6	175	146	127	83.2%	325	3.3	6" I.D. x 20'
CGa-7	210	175	152	83.0%	370	3.8	7" I.D. x 20'
CGa-8	245	204	177	82.7%	425	4.4	7" I.D. x 20'

CGa boilers are C.S.A. design certified for installation on combustible flooring. Tested for 50 PSI working pressure.

## STANDARD EQUIPMENT:

### BOILER

- Factory tested
- Two-piece top jacket panel
- Insulated extended steel jacket
- Cast iron sections with built-in air separator
- Radiation plates
- Vertical draft hood
- Automatic vent damper
- Combination gas valve for 24 volt
- Wiring harness
- Non-linting pilot burner
- Stainless steel burners
- Electrical junction box
- Rollout thermal fuse element
- High-limit temperature control
- Circulator (when ordered)
  - Sizes 25-5: Taco 007e
  - Sizes 6-8: Taco 007
- Spill switch
- 30 PSI ASME relief valve (boiler sections tested for 50 PSI working pressure)
- Combination pressure-temperature gauge
- Drain valve
- Integrated Boiler Control Module with intermittent electronic ignition system & indicator/diagnostic lights
- 40 VA transformer
- Plug-in connector and wiring

### ADDITIONAL EQUIPMENT:

- Taco 007 circulator
- Expansion tank package—shipped in separate carton (expansion tank, fill & check valve, auto air vent and fittings)
- Weil-McLain five- and ten-year homeowner protection plan
- Weil-McLain Indirect-fired water heaters
- Weil-McLain pool heaters
- Weil-McLain baseboard units

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 20 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Years Parts

<sup>2</sup>See Chart.

<sup>3</sup>Based on standard test procedures prescribed by the United States Department of Energy.

<sup>4</sup>Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing needs to be added for normal piping and pick-up. Ratings are based on a piping and pick-up allowance of 1.15. An additional allowance should be made for unusual piping and pick-up loads.



**HIGH EFFICIENCY  
CAST IRON BOILER**

**CGt**

**FOR RESIDENTIAL APPLICATIONS**

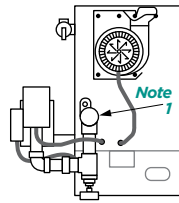
Built-in tankless heater provides a single appliance for space heating and domestic hot water needs



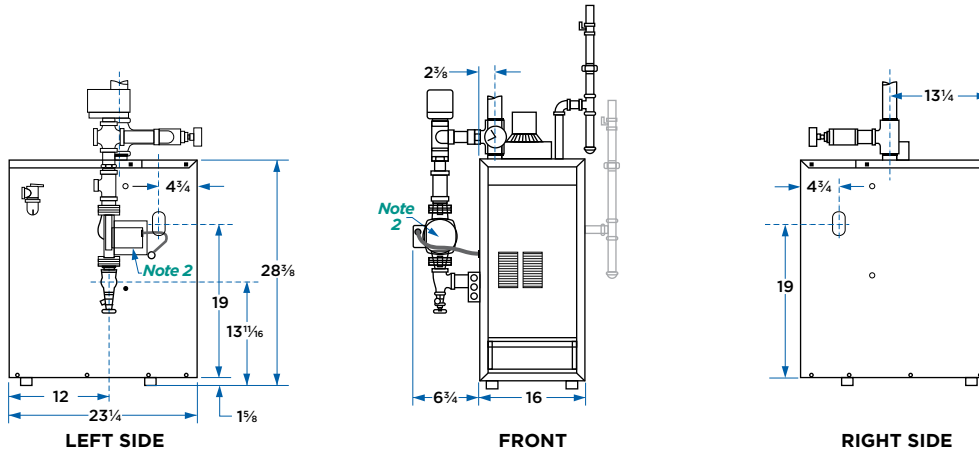
## DIMENSIONS

**Note 1:** Boiler supply connection (to tee) is 1½" NPT. Return connection (to 3-way valve port) is 1" NPT copper tube.

**Note 2:** Boiler circulator, 3-way valve, piping and trim are shipped loose for field assembly. Circulator must be mounted on return line as shown in the manual.



TOP VIEW

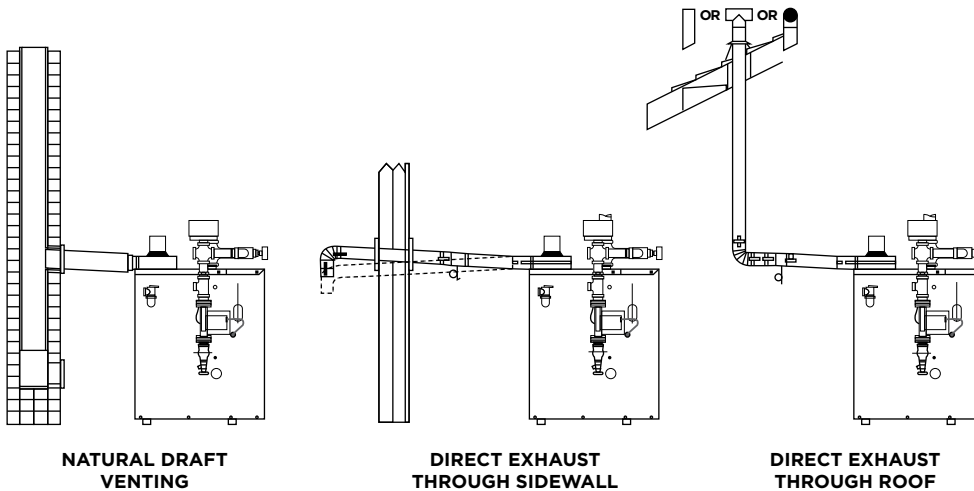


LEFT SIDE

FRONT

RIGHT SIDE

## INDUCED DRAFT VENTING OPTIONS



NATURAL DRAFT VENTING

DIRECT EXHAUST THROUGH SIDEWALL

DIRECT EXHAUST THROUGH ROOF

## RATINGS

Model	Input MBH	DOE Heating Capacity MBH <sup>3</sup>	Net AHRI Water Ratings MBH <sup>4</sup>	AFUE	Boiler Water Content Gal.	Direct Exhaust Vent Size <sup>5</sup>	Chimney Draft Vent Size
CGt-5	133	109	95	82.1%	3.1	3"	5"

Approximate Shipping Weight 290 Lbs.

<sup>3</sup>Based on standard test procedures prescribed by the United States Department of Energy.

<sup>4</sup>Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing needs to be added for normal piping and pick-up. Ratings are based on a piping and pick-up allowance of 1.15. An additional allowance should be made for unusual piping and pick-up loads.

<sup>5</sup>Direct exhaust CGt boilers require special venting, consistent with Category III boilers. Use only the vent materials and methods specified in the manual. Chimney draft vented CGt boilers may use type B vent or other materials suitable for venting Category I boilers.

Tankless Heater: Connections ¾" NPT I=W=H intermittent draw rating = 2.6 GPM (40-140°F with 200°F in boiler)

## STANDARD EQUIPMENT:

### BOILER

- Factory tested
- Two-piece top jacket panel
- Insulated extended steel jacket
- Cast iron sections with built-in air separator
- Radiation plates
- Steel base
- Integrated Boiler Control Module with intermittent electronic ignition system & indicator/diagnostic lights
- Inducer assembly
- Flue gas collector/transition assembly
- Combination gas valve for 24 volt
- Wiring harness
- 3-Way valve and piping tree components
- Air pressure switch
- Ambient temperature switch
- High-grade stainless steel burners
- Tankless heater and controls
- 40 VA transformer
- Electrical junction box
- Rollout thermal fuse element
- High-limit temperature control
- Circulator (when ordered) Taco 007e
- Thermostatic mixing valve (¾" sweat union connections)
- 30 PSI ASME relief valve (boiler sections tested for 50 PSI working pressure)
- Combination pressure-temperature gauge
- Drain valve

### OPTIONAL EQUIPMENT:

- CGt AL29-4C stainless steel vent starter kit (use when direct-exhaust venting boiler)
- Expansion tank package
- Weil-McLain five- and ten-year homeowner protection plan
- Gas conversion kit-natural to propane (#510-811-925)

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 20 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Years Parts

**HIGH EFFICIENCY  
CAST IRON BOILER****EG**

Order **PEG\*** for factory-assembled fire-tested package boiler (steam only, sizes 30 through 65). Tankless domestic water block assemblies available — EG only.

**APPLICATIONS INCLUDE:**

- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating

†Model Dependent



## DIMENSIONS

Model	Number & Size		Dimensions (In.)			Gas Connection Size <sup>1</sup> Natural	Minimum Recommended Pipe Sizes		
	Supply (NPT)	Return (NPT)	D	V	W		Forced Water Supply & Return <sup>2</sup>	Steam Riser & Header <sup>3</sup>	Steam Equalizer
EG-30	2-3"	2-2½"	5"	6"	17"	½"	1"	2"	1½"
EG-35	2-3"	2-2½"	5"	6"	17"	½"	1"	2"	1½"
EG-40	2-3"	2-2½"	6"	6½"	21¼"	½"	1¼"	2½"	1½"
EG-45	2-3"	2-2½"	6"	6½"	21¼"	½"	1¼"	2½"	1½"
EG-50	2-3"	2-2½"	7"	9"	25½"	½"	1¼"	2½"	1½"
EG-55	2-3"	2-2½"	7"	9"	25½"	½"	1½"	3"	1½"
EG-65	2-3"	2-2½"	8"	9½"	29¾"	¾"	1½"	3"	1½"
EG-75	2-3"	2-2½"	8"	9½"	34"	¾"	2"	3"	1½"

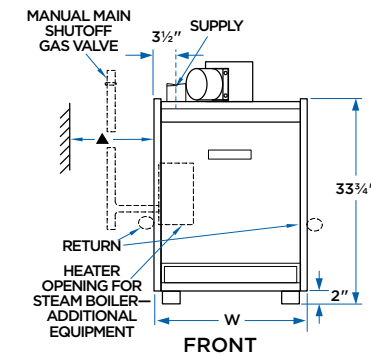
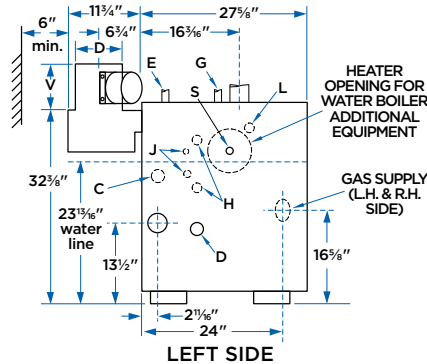
<sup>1</sup>Sizes shown are gas connection sizes. Gas piping from meter to boiler to be sized according to local utility requirements.

<sup>2</sup>All supply and return sizes are based on a 20°F temperature rises through the boiler.

<sup>3</sup>24" minimum from water line to header.

Location	Size	Steam	Water
C	¾"	Electrode-Type-Low-Water Cutoff	Electrode-Type-Low-Water Cutoff
D	¾"	Drain	Drain
E	¾"	Safety Valve	Safety Relief Valve
G	¾"	Plugged	Piping to Compression Tank or Auto. Air Vent
H	½"	Gauge Glass and/or Low-Water Cutoff	Combination Pressure-Temperature Gauge
J <sup>4</sup>	⅜"	Tri Cock Tappings	Plugged
L	½"	Siphon, Pressure Gauge, High-Limit Control	Combination Pressure-Temperature Gauge
S (steam)	1½"	Skim Tapping	—
S (water)	¾"	**	Limit Control

\*\*Available only on special request, when tankless heater is specified.



## RATINGS

Model*	CSA Input (MBH)	AFUE		DOE Heating Capacity (MBH) <sup>5</sup>	Net AHRI Ratings <sup>6</sup>			Chimney Size	Approx. Shipping Weight (Lbs.)
		Intermittent Ignition w/Damper Natural Gas (PIDN)			Steam (MBH)	Water (MBH)	Steam (Sq./Ft.)		
		Water	Steam						
EG-30-*	75	84.3%	83%	62	47	55	196	5" I.D. x 20'	430
EG-35-*	100	83.6%	82.9%	83	62	73	258	5" I.D. x 20'	430
EG-40-*	125	84%	82.9%	104	78	91	325	6" I.D. x 20'	505
EG-45-*	150	83.5%	82.9%	125	94	110	392	6" I.D. x 20'	505
EG-50-*	175	83.8%	82.8%	145	109	128	454	7" I.D. x 20'	585
EG-55-*	200	83.8%	82.8%	167	125	146	521	7" I.D. x 20'	585
EG-65-*	250	84%	83%	209	157	183	654	8" I.D. x 20'	660
EG-75-*	299	82.7%	82.4%	249	185	217	750 or 770	8" I.D. x 20'	735

\*Add to boiler number "W" for water, "S" for steam. Add "PID" to designator for boiler with intermittent electronic ignition system. Add "T" to designator for boiler with tankless heater openings. Add "P" to prefix for factory-assembled fire-tested package boiler (steam only sizes, 30 through 65).

EG boiler is CSA design certified for installation on non-combustible flooring only. Tested for 50 PSI working pressure. Not available for millivolt systems.

## STANDARD EQUIPMENT:

### BOILER

- Factory-assembled section block
- Insulated extended jacket
- Horizontal to vertical draft hood
- Automatic vent damper (additional for EG-75)
- Combination gas valve for 24 volt
- Non-linting pilot burner
- Stainless steel burners
- Electrical junction box
- Spill switch
- Rollout thermal fuse element

### WATER BOILERS ONLY:

- Built-in-air separator
- 30 PSI ASME relief valve (boiler sections tested for 50 PSI working pressure)
- Combination pressure-temperature gauge
- High-limit control
- Integrated Boiler Control Module with intermittent electronic ignition system & indicator / diagnostic lights
- 40 VA transformer
- Plug-in connector and wiring

### STEAM BOILERS ONLY:

- 15 PSI ASME relief valve (boiler sections tested for 15 PSI working pressure)
- High-limit pressure control
- Low water cutoff-electrode type
- 40 VA transformer
- Steam pressure gauge
- Siphon
- Gauge cocks and glass
- Intermittent electronic ignition system with Weil-McLain UCM universal ignition control module

### ADDITIONAL EQUIPMENT:

- Package steam boiler-factory-assembled and fire-tested (P-EG-30 through 65 only)
- Left end section with openings for tankless heaters
- Tankless heaters, heater cover plates, and controls
- Automatic vent damper for EG-75 with electronic ignition

### LIMITED TRANSFERABLE WARRANTY:

- Residential—water: 20 Years Heat Exchanger; 2 Years Parts
- Residential—steam: 10 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

<sup>4</sup>Based on standard test procedures prescribed by the United States Department of Energy.

<sup>5</sup>Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing needs to be added for normal piping and pick-up. Water ratings are based on a piping and pick-up allowance of 1.15, steam ratings on an allowance of 1.333. An additional allowance should be made for unusual piping and pick-up loads.



**HIGH EFFICIENCY CAST IRON OIL  
BOILER AT 87% AFUE**

# Ultra Oil

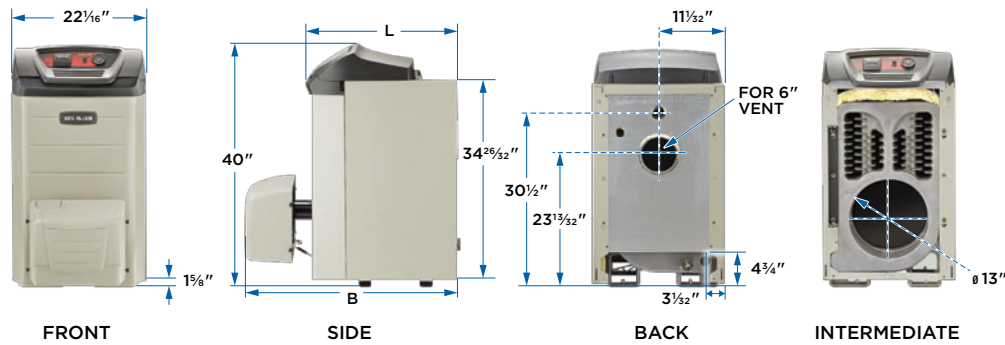
Durable 3-pass heat exchanger design.

**APPLICATIONS INCLUDE:**

- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating



## DIMENSIONS



DIMENSIONS	UO-3RE <sup>1</sup>	UO-3E	UO-4E	UO-5E
Supply Tapping	1½"	1½"	1½"	1½"
Return Tapping	1½"	1½"	1½"	1½"
Depth - with Burner (B)	37"	37"	41"	45"
Depth - Boiler	25"	25"	29"	33"

DATA	UO-3RE <sup>1</sup>	UO-3E	UO-4E	UO-5E
Chimney Rectangle	8"x 8"	8"x 8"	8"x 8"	8"x 8"
Chimney Round	6"	6"	6"	6"
Chimney Height	15'	15'	15'	15'
Water Volume	15.00 Gal.	15.00 Gal.	18.25 Gal.	21.50 Gal.
Approximate Shipping Weight	636 Lbs.	636 Lbs.	737 Lbs.	852 Lbs.

## RATINGS

RATINGS	UO-3RE <sup>1</sup>	UO-3E	UO-4E	UO-5E
Burner Capacity (GPH)	0.80	1.00	1.20	1.40
CSA Input (MBH)	112	140	168	196
DOE Heating Capacity (MBH)	99	123	148	173
Net Ratings (MBH)	86	107	129	150
AFUE	87%	87%	87%	87%
Draft Loss Through Boiler (In. w/c)	.000	.020	.025	.040

<sup>1</sup>The .80 GPH firing rate is achieved by changing the burner nozzle, refer to burner instructions or boiler's rating label for correct selection. For Beckett AFG, also use the burner low fire rate baffle included in burner carton.

## STANDARD EQUIPMENT:

### BOILER

- Three-pass cast iron heat exchanger with captured elastomer seals
- Reversible swing-away burner door
- Silicone coated fiberglass sealing rope
- Boiler drain valve
- Relief valve (30 PSI)
- Attractive jacket design
- Hinged control pod
- Service switch
- Temperature/pressure gauge
- Factory wired terminal strips with labeled wires (pre-wired to accept external limits such as high limit and low water cut off)
- Combination limit and low water cut off
- Quick disconnect burner plug
- Barometric damper
- Circulator (when ordered)
  - Sizes 3 & 4: Taco 007e
  - Size 5: Taco 007

### OPTIONAL EQUIPMENT:

- Beckett NX (chimney or direct vent)
- Beckett AFG (chimney vent only)
- Carlin (chimney vent only)
- Riello (chimney or direct vent)
- Direct vent kit
- 50 PSI relief valve

### ADVANCED FEATURE MODULE (AFM):

- Outdoor reset
- Low temperature mixing
- Setpoint operation
- DHW priority
- DHW priority override
- DHW post purge
- Stage fire two boilers
- Minimum boiler setting
- Automatic boiler differential
- Boiler protection
- Warm weather shutdown
- Freeze protection
- Mixing device exercise
- Pump exercise
- Test sequence
- LCD remote display
- Run hours log
- Plug-in terminals
- Two boiler multiple system control

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 20 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts



**HIGH EFFICIENCY  
CAST IRON BOILER**

# WGO

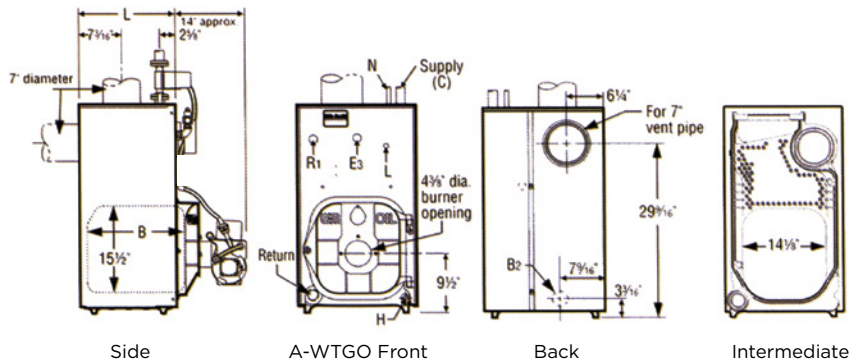
**APPLICATIONS INCLUDE:**

- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating

†Model Dependent



## DIMENSIONS



Tapping Location	Size (in.)	Control Tappings
B <sub>2</sub>	1 1/2	Alternative return — "A" units only
E <sub>3</sub>	1/4	Pressure/temperature gauge
H	3/4	Drain valve
L	3/4	High limit/circulator control
N	1/2	Piping to expansion tank or automatic air vent
R <sub>1</sub>	3/4	Relief valve

Model	Supply C (in.)		Return (in.)	Dimensions (in.)	
	P-WGO	A-WGO		B	L
WGO-2	1 1/4 (circulator flange)	1 1/2	1 1/2	10 1/2	13 3/4
WGO-3	1 1/4 (circulator flange)	1 1/2	1 1/2	13 1/2	16 7/8
WGO-4	1 1/4 (circulator flange)	1 1/2	1 1/2	13 3/8	16 7/8
WGO-5	1 1/4 (circulator flange)	1 1/2	1 1/2	16 7/8	20
WGO-6	1 1/4 (circulator flange)	1 1/2	1 1/2	20	23 3/8
WGO-7	not applicable	1 1/2	1 1/2	23 1/8	26 1/4
WGO-8	not applicable	1 1/2	1 1/2	26 1/4	29 3/8
WGO-9	not applicable	1 1/2	1 1/2	29 3/8	32 1/2

## RATINGS

Energy Star*	Model <sup>4</sup>	Burner Input Rating		AHRI Certified Ratings			Draft Loss Through Boiler (in. w/c)	Minimum Chimney Size			Approx. Shipping Weight (Lbs.)
		GPH <sup>5</sup>	MBH <sup>5</sup>	Heating Capacity (MBH) <sup>6,7</sup>	Net Ratings (MBH) <sup>7,8</sup>	AFUE <sup>8</sup>		Rectangular (in.)	Round (in.)	Height (Ft.)	
*	WGO-2RD	0.70	98	86	75	87.0%	.010	8x8	6	15	540
	WGO-2	0.70	98	86	75	86.4%	.010	8x8	6	15	540
*	WGO-3RD	0.80	112	98	85	87.0%	.010	8x8	6	15	595
	WGO-3	0.95	133	115	100	85.3%	.020	8x8	6	15	595
*	WGO-4RD	1.00	140	123	107	87.0%	.010	8x8	6	15	645
	WGO-4	1.20	168	145	126	85.0%	.010	8x8	6	15	645
*	WGO-5RD	1.20	168	148	129	87.0%	.015	8x8	7	15	760
	WGO-5	1.45	203	175	152	85.0%	.015	8x8	7	15	760
*	WGO-6RD	1.40	196	173	150	87.0%	.015	8x8	7	15	860
	WGO-6	1.75	245	212	184	85.0%	.015	8x8	7	15	860
*	WGO-7RD	1.60	224	197	171	87.0%	.015	8x8	8	15	930
	WGO-7	2.00	280	242	210	85.0%	.015	8x8	8	15	930
	WGO-8	2.30	322	266	231	-	.025	8x12	8	20	1030
	WGO-9	2.35	357	295	257	-	.030	8x12	8	20	1135

\*ENERGY STAR® compliant with Version 3.0 Boiler Specification of 87% AFUE only when installed at the reduced burner rate (R) and with the optional vent damper kit (D). Burners shipped with standard rate nozzle, reduced rates achieved through nozzle change—refer to burner instructions or boiler's rating label for correct selection.

## STANDARD EQUIPMENT:

### BOILER

- Factory tested and assembled cast iron section assembly (jacket and collector hood are not assembled on 7, 8 and 9 section blocks)
- Insulated steel jacket
- Aluminized steel flue collector hood with flue cap on top outlet (convertible to rear outlet)
- Swing-away burner mounting door
- Refractory blanket and target wall in combustion area
- Circulator (when ordered)
  - Sizes 2-4: Taco 007e
  - Sizes 5-6: Taco 007
- High limit control with circulator relay, LWCO function, and integrated service switch
- Two vent pipe brackets
- Pressure/temperature gauge
- 30 PSIG ASME relief valve (boiler sections tested for 50 PSIG working pressure)
- Drain valve
- Barometric damper
- Built-in air separator

### OPTIONAL EQUIPMENT:

- High-efficiency flame-retention oil burner (Beckett AFG, Carlin EZ or Riello). Specify 2-stage fuel unit (optional) if required
- Vent damper kit
- Weil-McLain five- and ten-year homeowner protection plan
- Weil-McLain indirect-fired water heaters

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 20 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

<sup>4</sup>Add "P" for packaged boiler (WGO-2 through WGO-6 only). Add "A" for boiler only (WGO-2 through WGO-9).

<sup>5</sup>No. 2 fuel oil-Commercial Standard Specification CS75-56. Heating value of oil-140,000 BTU/Gal.

<sup>6</sup>Based on standard test procedures prescribed by the United States Department of Energy at combustion condition of 13.5% CO<sub>2</sub> and -0.02" W.C. draft.

<sup>7</sup>MBH refers to thousands of BTU per hour.

<sup>8</sup>Net AHRI ratings are based on net installed radiation adequate for the requirements of the building, including a piping and pickup allowance of 1.15-sufficient for normal conditions. Provide additional allowance only for unusual piping and pickup loads.



**HIGH EFFICIENCY  
CAST IRON BOILER**

# WTGO

Provides space and domestic hot water heating.

**APPLICATIONS INCLUDE:**

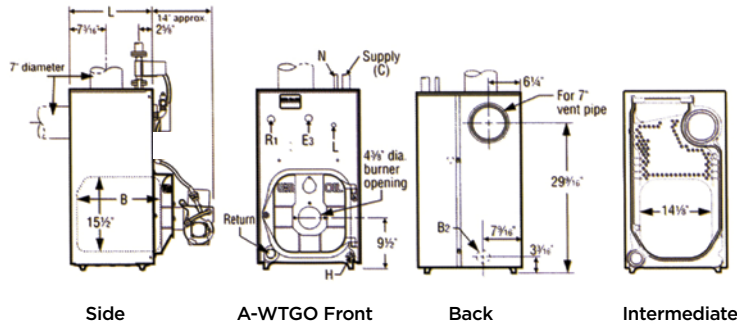
- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating

†Model Dependent





## DIMENSIONS



Tapping Location	Size (in.)	Control Tappings
B <sub>2</sub>	1 1/2	Alternative return — "A" units only
E <sub>3</sub>	1/4	Pressure/temperature gauge
H	3/4	Drain valve
L	3/4	High limit/circulator control
N	1/2	Piping to expansion tank or automatic air vent
R <sub>1</sub>	3/4	Relief valve

Model	Supply C (in.)		Return (in.)	Dimension (in.)		Tankless Heater		
	P-WTGO	A-WTGO		B	L	Number	Inlet & Outlet (NPT) (in.)	Temp Control (NPT) (in.)
WTGO-3	1 1/4 (circulator flange)	1 1/2	1 1/2	13 1/2	16 7/8	WT-14	1/2	3/4
WTGO-3L	1 1/4 (circulator flange)	1 1/2	1 1/2	10 1/2	13 3/4	WT-14	1/2	3/4
WTGO-4	1 1/4 (circulator flange)	1 1/2	1 1/2	13 3/8	16 7/8	WT-14	1/2	3/4
WTGO-5	1 1/4 (circulator flange)	1 1/2	1 1/2	16 7/8	20	WT-14	1/2	3/4
WTGO-6	1 1/4 (circulator flange)	1 1/2	1 1/2	20	22 1/8	WT-14	1/2	3/4
WTGO-7	not applicable	1 1/2	1 1/2	23 1/8	26 1/4	WT-20	1/2	3/4
WTGO-8	not applicable	1 1/2	1 1/2	26 1/4	29 3/8	WT-20	1/2	3/4
WTGO-9	not applicable	1 1/2	1 1/2	29 3/8	32 1/2	WT-20	1/2	3/4

## RATINGS

Energy Star*	Model <sup>4</sup>	Burner Input Rating		AHRI Certified Ratings			Tankless Heater Intermittent Draw Rating <sup>10</sup>	Draft Loss Through Boiler (in. w/c)	Minimum Chimney Size			Approx. Shipping Weight (Lbs.)
		GPH <sup>5</sup>	MBH <sup>5</sup>	Heating Capacity (MBH) <sup>6,7</sup>	Net Ratings (MBH) <sup>7,8</sup>	AFUE <sup>8</sup>			Rectangular (In.)	Round (In.)	Height (Ft.)	
*	WTGO-3LR	0.70	98	86	75	86.4%	3.25	.010	8x8	6	15	540
	WTGO-3L	0.95	133	114	99	85.0%	3.25	.010	8x8	6	15	540
*	WTGO-3RD	0.80	112	98	85	87.0%	3.25	.010	8x8	6	15	595
	WTGO-3	0.95	133	115	100	85.3%	3.25	.020	8x8	6	15	595
*	WTGO-4RD	1.00	140	123	107	87.0%	3.75	.010	8x8	6	15	645
	WTGO-4	1.20	168	145	126	85.0%	3.75	.010	8x8	6	15	645
*	WTGO-5RD	1.20	168	148	129	87.0%	4.00	.015	8x8	7	15	760
	WTGO-5	1.45	203	175	152	85.0%	4.00	.015	8x8	7	15	760
*	WTGO-6RD	1.40	196	173	150	87.0%	4.25	.015	8x8	7	15	860
	WTGO-6	1.75	245	212	184	85.0%	4.25	.015	8x8	7	15	860
*	WTGO-7RD	1.60	224	197	171	87.0%	5.50	.015	8x8	8	15	930
	WTGO-7	2.00	280	242	210	85.0%	5.50	.015	8x8	8	15	930
	WTGO-8	2.30	322	266	2318	-	5.75	.025	8x12	8	20	1030
	WTGO-9	2.55	357	295	2578	-	6.00	.030	8x12	8	20	1135

\*ENERGY STAR® compliant with Version 3.0 Boiler Specification of 87% AFUE only when installed at the reduced burner rate (R) and with the optional vent damper kit (D). Burners shipped with standard rate nozzle, reduced rates achieved through nozzle change—refer to burner instructions or boiler's rating label for correct selection.

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

## STANDARD EQUIPMENT:

### BOILER

- Factory tested and assembled cast iron section assembly (jacket and collector hood are not assembled on 7, 8 and 9 section blocks)
- Tankless heater (P-units) or tankless opening cover plate (A-units)
- Insulated steel jacket
- Aluminized steel flue collector hood with flue cap on top outlet (convertible to rear outlet)
- Swing-away burner mounting door
- Refractory blanket and target wall in combustion area
- Circulator (when ordered)
  - Sizes 3-4: Taco 007e
  - Sizes 5-6: Taco 007
- Comb. temp. controls, LWCO, circulator relay (all P-units/A-units ordered with tankless heater), and integrated service switch
- Two vent pipe brackets
- Pressure/temperature gauge
- 30 PSI ASME relief valve (boiler sections tested for 50 PSIG working pressure)
- Drain valve
- Barometric damper

### OPTIONAL EQUIPMENT:

- High-efficiency flame-retention oil burner (Beckett AFG, Carlin EZ or Riello). Specify 2-Stage fuel unit (optional) if required
- Vent damper kit
- Weil-McLain five- and ten-year homeowner protection plan
- Weil-McLain indirect-fired water heaters

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 20 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

<sup>4</sup>Add "P" for packaged boiler (WTGO-3 through WTGO-6 only). Add "A" for boiler only (WTGO-3 through WTGO-9).

<sup>5</sup>No. 2 fuel oil—Commercial Standard Specification CS75-56. Heating value of oil-140,000 BTU/Gal.

<sup>6</sup>Based on standard test procedures prescribed by the United States Department of Energy at combustion condition of 13.5% CO<sub>2</sub> and -0.02" W.C. draft.

<sup>7</sup>MBH refers to thousands of BTU per hour.

<sup>8</sup>AHRI gross output.

<sup>9</sup>Net AHRI ratings are based on net installed radiation adequate for the requirements of the building, including a piping and pickup allowance of 1.15-sufficient for normal conditions. Provide additional allowance only for unusual piping and pickup loads.

<sup>10</sup>Tankless heater rating is in gallons of water per minute, heated from 40°F to 140°F with 200°F boiler water temperature—tested in accordance with I-W-H testing and rating standard for indirect tankless water heaters test with boilers.



**HIGH EFFICIENCY  
CAST IRON STEAM BOILER**

# SGO

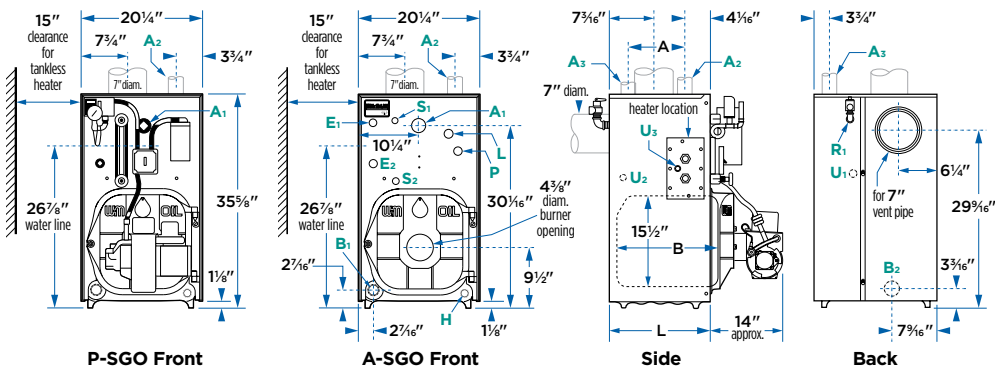
**APPLICATIONS INCLUDE:**

- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating

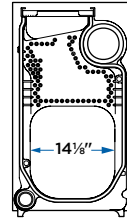
†Model Dependent



## DIMENSIONS



Tapping Location	Size (in.)	Steam
A <sub>1</sub>	1½	Skim tapping
A <sub>2</sub>	2½	Supply
A <sub>3</sub>	2½	Supply (SGO-6 through 9)
B <sub>1</sub>	1½	Plugged
B <sub>2</sub>	2	Return
E <sub>1</sub>	½	Pressure gauge & limit control (when probe LWCO is used)
E <sub>1</sub> & E <sub>2</sub>	½	Low water cutoff (float-type)
H	¾	Drain valve
L	¾	Pressure gauge & limit control (when probe LWCO is used)
P	¾	Low water cutoff (probe-type)
R <sub>1</sub>	¾	Relief valve
S <sub>1</sub> & S <sub>2</sub>	½	Gauge glass
U <sub>1</sub>	1	Take-off for indirect-fired water heater or separate zone
U <sub>2</sub>	¾	Tankless heater operating control (SGO-6 through 9)
U <sub>3</sub> *	¾	Tankless heater operating control (SGO-3 through 5)



Intermediate

Model	Supply (in.)		Return (in.)		Dimension (in.)			Tankless Heater #35-S-29	
	Steam	Steam	A	B	L	Inlet & Outlet (NPT) (in.)	Temp Control (NPT) (in.)		
SGO-3	1-2½	2	-	13½	16⅞	¾	¾		
SGO-4	1-2½	2	-	16⅞	20	¾	¾		
SGO-5	1-2½	2	-	19⅞	23⅞	¾	¾		
SGO-6	2-2½	2	19	23	26¼	¾	¾		
SGO-7	2-2½	2	22⅞	26⅞	29⅞	¾	¾		
SGO-8	2-2½	2	25¼	29¼	32½	¾	¾		
SGO-9	2-2½	2	28⅞	32⅞	35⅞	¾	¾		

## RATINGS

Model*	SGO-3	SGO-4	SGO-5	SGO-6	SGO-7	SGO-8	SGO-9
AHRI Burner Cap. (GPH) <sup>1</sup>	0.95	1.20	1.45	1.75	2.00	2.30	2.55
AFUE	84.0%	84.0%	83.9%	83.7%	83.6%	— <sup>4</sup>	— <sup>4</sup>
DOE Heating Capacity (MBH) <sup>1,2</sup>	114	144	174	210	240	266	295
Net AHRI Steam Ratings (MBH) <sup>3</sup>	85	108	131	158	180	200	221
Steam (Sq. Ft.) <sup>5</sup>	354	450	546	658	750	833	921
Tankless Heater Intermittent Draw Rating (GPH) <sup>6</sup>	3.25	3.50	3.75	4.00	4.00	4.00	4.00
Draft Loss Through Boiler (in. w/c) <sup>7</sup>	.020	.010	.015	.015	.015	.025	.030
Chimney Size	Rectangular (in.)	8 x 8	8 x 8	8 x 8	8 x 8	8 x 12	8 x 12
	Round (in.)	6	6	7	7	8	8
	Height (Ft.)	15	15	15	15	15	20
Approx. Shipping Weight (Lbs.)	600	705	820	920	990	1090	1195

## STANDARD EQUIPMENT:

### BOILER

- Factory tested and assembled cast iron section assembly (jacket and collector hood are not assembled on 7, 8 and 9 section blocks)
- Insulated steel jacket
- Aluminized steel flue collector hood with flue cap on top outlet (convertible to rear outlet)
- Swing-away burner mounting door
- Refractory blanket and target wall in combustion area heater opening cover plate
- Electrical junction box with wiring harnesses
- Junction box cover plate with service switch
- Two vent pipe brackets
- Drain valve
- Barometric damper
- High limit pressure control
- Low water cutoff; -P units only (float or probe type)
- Steam pressure gauge
- Siphon
- Gauge glass, cocks and guard

### OPTIONAL EQUIPMENT:

- High-efficiency flame-retention Oil Burner (Beckett AFG, Carlin EZ or Riello). Specify 2-stage fuel unit (optional) if required.
- Tankless heaters and controls
- Low water cutoffs (float or probe type)
- Weil-McLain five- and ten-year homeowner protection plan
- Weil-McLain indirect-fired water heaters

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

\*Add "P" for packaged boiler (SGO-3 through SGO-6 only), add "A" for boiler only.

<sup>1</sup>No. 2 fuel oil-Commercial Standard Specification CS75-56. Heating value of oil-140,000 BTU/Gal.

<sup>2</sup>Based on standard test procedures prescribed by the United States Department of Energy at combustion condition of 13.5% CO<sup>2</sup> and -0.02" W.C. draft.

<sup>3</sup>MBH refers to thousands of BTU per hour.

<sup>4</sup>Rating under "DOE Heating Capacity" for SGO-8 and -9 is AHRI gross output. DOE ratings do not apply to boilers above 300 MBH.

<sup>5</sup>Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pickup. Steam ratings are based on a piping and pickup allowance of 1.333. An additional allowance should be made for unusual piping and pickup loads.

<sup>6</sup>All boiler sizes use number 35-S-29 tankless heater. Tankless heater rating is in gallons of water per minute, heated from 40°F to 140°F with 200°F boiler water temperature-tested in accordance with I-W-H Testing and Rating Standard for Indirect Tankless Water Heaters Test with Boilers.

<sup>7</sup>Listed draft losses are for standard burner settings.





**SVF™ 750-1100**  
Stainless Steel  
Firetube Boiler



**SVF™ 1500-3000**  
Stainless Steel  
Firetube Boiler



**Evergreen®**  
Stainless Steel  
Firetube Boiler



**Ultra™**  
Aluminum Boiler



**SlimFit® 500-750**  
Aluminum Boiler



**SlimFit® 1000-2000**  
Aluminum Boiler

**SVF™** | **STAINLESS  
VERTICAL  
FIRETUBE**

## Introducing the power of stainless: our state-of-the-art 750-1100 MBH firetube boiler.

Guarding against wear and tear through use of the highest quality materials, the SVF 750-1100 Stainless Vertical Firetube line delivers industry-leading efficiency and reliability. Cutting-edge technology and design for installation and serviceability ease enables the SVF 750-1100 line to meet all standard bid specs for new construction projects and is ideal for hybrid applications and replacement boilers needs.

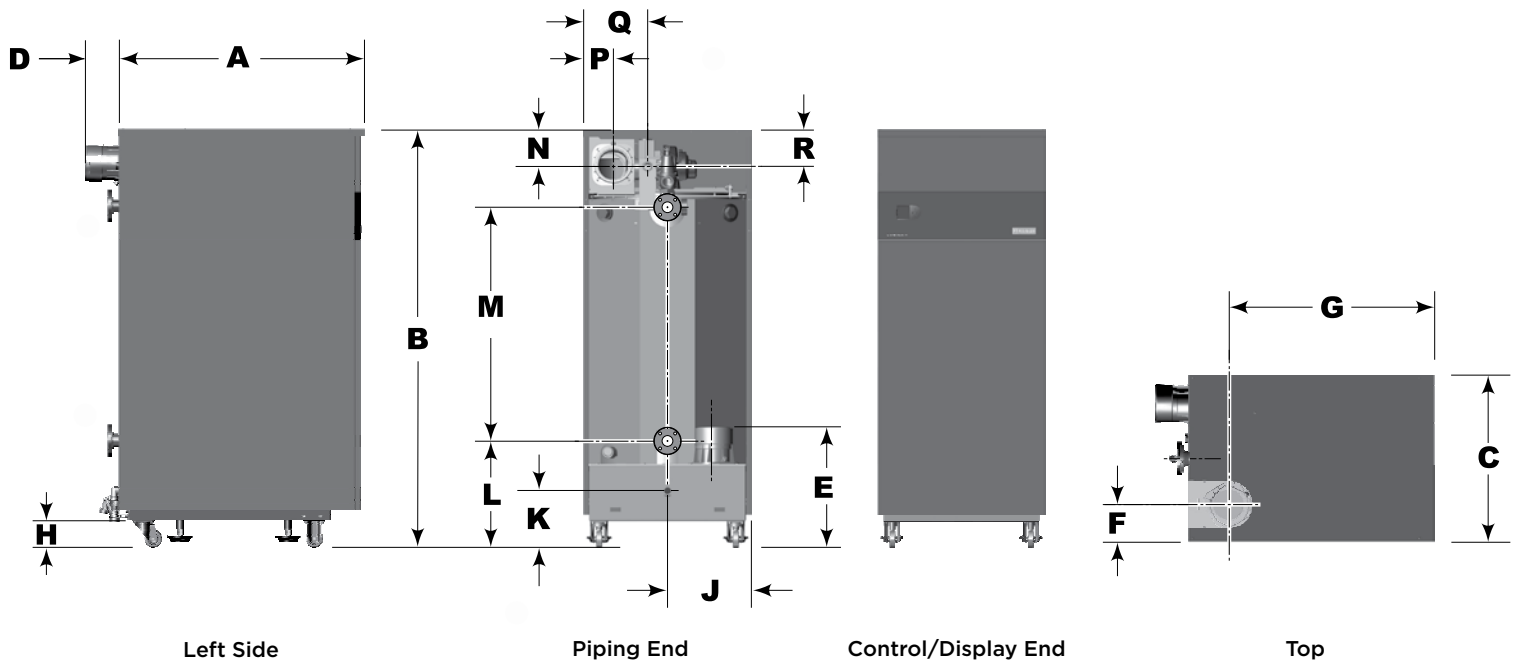
- Industry-leading thermal efficiency up to 97.1% (model dependent)
- Available in 3 sizes: 750, 1000 and 1100 MBH
- Clover-shaped vertical stainless steel firetube heat exchanger provides best-in-class reliability and service life
- Water boiler available in natural gas and propane models
- 160 psi working pressure
- Hinged cover plate allows for quick access to burner and firetubes, making maintenance a breeze
- Advanced Unity™ control system (70-3000 MBH compatibility) with built-in set-up wizard
- Contractor-friendly ease of installation and serviceability
- Removable and serviceable condensate tray
- Weil-McLain built-to-last reliability and longevity

†Model Dependent

\*Please call your local Weil-McLain sales office for additional venting options



## Dimensions and Product Specifications



Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
SVF 750	46 5/16"	79 3/8"	31 5/8"	6 5/16"	22 15/16"	6 7/8"	38 11/16"	5 1/4"	15 3/4"	11"	20 3/8"	44 3/8"	6 7/16"	5 1/4"	12"	6 15/16"
SVF 1000/1100	50 7/8"	79 3/8"	35 3/16"	5 11/16"	22 15/16"	7 3/16"	42 13/16"	5 1/4"	17 3/4"	11"	20 3/8"	43 3/4"	6 7/16"	5 5/16"	13 3/16"	5 7/16"

(height dimensions based on 5 1/4" spacing from floor to bottom)

Model No.	Thermal Efficiency	Max Pressure (psi)	Max Input (MBH)	Gross Output (MBH)	Net AHRI Rating (MBH)	Turn Down	Water Conn	Gas Conn	Air/Intake Vent Size (Diameter)	Length	Width	Height	Shipping Weight (lbs)
SVF 750	96.3%	160	785	756	657	5:1	2" Flange	1 1/4"	6"	46.5"	31.5"	79.1"	1,565
SVF 1000	96.8%	160	1,000	968	842	4.4:1	3" Flange	1 1/4"	6"	51.0"	35.4"	79.1"	1,875
SVF 1100	97.1%	160	1,134	1,101	957	5:1	3" Flange	1 1/4"	6"	51.0"	35.4"	79.1"	1,875

### Industry Leading Efficiency

- Up to 97.1% Thermal Efficiency\*
- ASME Certified Stainless Steel Firetube Heat Exchanger and Shell
- "Clover" Tube Design for Maximum Heat Transfer
- 160 psi Working Pressure
- 30 psi Relief Valve
- Pickled and Passivated Welded Design

### Modulating, Low Emissions Burner Design

- Natural Gas or Propane
- Down to <20 ppm NOx Emissions\*
- 5:1 Turndown Ratio\*
- Low Gas Pressure Operation
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Venturi Mixing System
- Negative Pressure Regulated Gas Valve
- 50 VA Transformer
- Temperature & Pressure Gauge
- Outdoor Water Temp. Sensor
- Outlet & Inlet Water Temp. Sensor
- Flue Gas Temp. Sensor
- System Water Temp. Sensors
  - Immersion Style—Supply & Return

### Venting Options

- Direct Exhaust—Sidewall & Vertical (CAT II)
- Direct Vent—Sidewall, Vertical, & Side Intake with Vertical Exhaust (CAT II)
- Direct Exhaust—Vertical (CAT IV)

\*model dependent

### Complete Jacket Assembly

- Fully Removable Jacket
- Rugged, Steel Frame & Panels
- Manual Reset Push Button through Display

### Easy Install/Serviceability

- Easy Set-up with Control Wizard
- Industrial-Grade Roller Casters
- Shipping Crate Ramp
- Hinged Cover Plate
- "Door-Fit" Design
- Zero-Clearance to Combustibles
- Low-Profile, Stainless Steel Burner with Woven Steel Fiber Mesh
- Removable, Stainless Steel Condensate Tray
- Single-Point Installation
  - All Field Connections out Back of Boiler

### Multiple Boiler Features

- Up to 8 Boilers, Multiple System functionality with Lead/Lag Capability
- Series, Parallel, or SmartSequencing™
- Lead Boiler Rotation
- Variable Primary Flow Design Capable
- (3) Boiler Priorities Capability
  - Either (2) network and (1) local or (1) network and (2) local
- (24) Zone Inputs and Outputs with (8) Total Cascaded
- Boiler via Zone Stacking™
- Aux Inputs—Flow End or Switch End
- System Aux Outputs—System Pump or Damper

### Control Features

- 120 VAC/60 Hertz/1 Phase
- Operating Status Color LCD Display
- Preset Operating Parameters Including Typical Heating Systems
- Configurable Outdoor Reset
- Rate Setting for Each Input/Output
- 0-10V Input (Modulation or Set Point)
- Standard Modbus Connectivity
- Additional Heat Demand Functionality
- Contact with 0-10V Output
- Labeled Terminal Blocks for Field Terminations
- Ignition Control
- High Limit & Modulating Temp. Control
- Alarm Control Functionality
- Onboard Time & Date
- Low Water Cut-Off
- Manual Reset
- Warm Weather Shutdown
- Freeze Protection
- Boiler Service Interval & Contractor Info

### CSD-1 Compliant

- Manual Reset LWCO
- Manual Reset High & Low Gas Pressure Switches
- UL 353 Certified High Limit Control with Manual Reset
- UL 353 Certified Operating Control

### Non-Pro-Rated Warranty (Residential and Commercial)

- 10 Year Heat Exchanger Warranty
- 2 Year Parts Warranty

### Optional Equipment

- Pressure Relief Valve—30/50/80/100/150 psi
- System Water Temp. Sensors
  - Strap-On—Supply & Return
- BacNet or LonWorks Converter Kit
- Annual Maintenance Kit
- Corrosion Inhibitor
- Condensate Neutralizer Kit
- Anti-Freeze

### Boiler Certifications

- ASME IV, CSA, AHRI, Commercial Energy Star, SCAQMD

## Ultra-Low NOx

Designed specifically for highly-regulated emissions regions, the **SVF 750** & **SVF 1000** are South Coast Air Quality Management District (SCAQMD) certified with the **SVF 1100** meeting <30 ppm emissions requirements.

**SVF™** | **STAINLESS  
VERTICAL  
FIRETUBE**

## Expanding the power of stainless: Our state-of-the-art 1500-3000 MBH firetube boiler.

The SVF 1500-3000 Stainless Vertical Firetube line delivers industry-leading efficiency and reliability through the use of the highest quality materials and cutting edge design. This powerful boiler is ideal for schools and municipal buildings, meets all standard bid specs for new construction projects and is ideal for hybrid applications and replacement boilers needs.

- Industry-leading thermal efficiency up to 96.8%
- Vertical, stainless steel heat exchanger
- Available in 4 sizes: 1500/2000/2500/3000 MBH
- Water boiler with natural gas and propane fuel options
- 160 psi working pressure
- Up to 10:1 turn down ratio
- Easy access, serviceable stainless steel condensate tray
- Integrated roller casters and leveling legs for contractor-friendly installation
- Standard “door-fit” design
- Zero clearance, side-by-side installation capable
- Hinged cover plate for quick access to burner and firetubes for time-saving preventive maintenance
- Advanced Unity™ control system (70-3000 MBH compatibility) with built-in set-up wizard
- Weil-McLain built-to-last reliability and longevity

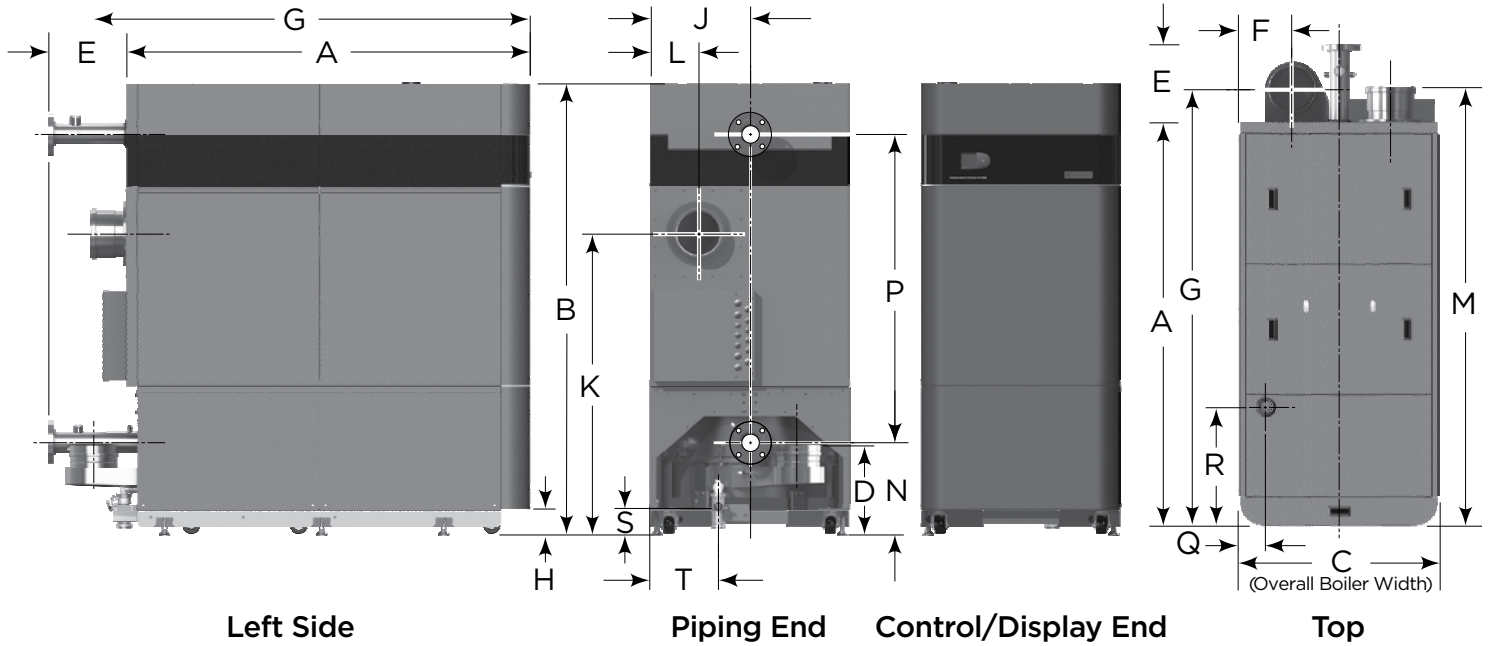
†Model Dependent

\*Please call your local Weil-McLain sales office for additional venting options





# Dimensions and Product Specifications



Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
1500/2000	70 <sup>1</sup> / <sub>16</sub> "	79"	35 <sup>5</sup> / <sub>16</sub> "	15 <sup>5</sup> / <sub>16</sub> "	13 <sup>3</sup> / <sub>16</sub> "	9 <sup>1</sup> / <sub>4</sub> "	76 <sup>1</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>2</sub> "	17 <sup>3</sup> / <sub>8</sub> "	52 <sup>1</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	76 <sup>1</sup> / <sub>16</sub> "	16 <sup>1</sup> / <sub>4</sub> "	53 <sup>1</sup> / <sub>16</sub> "	4 <sup>7</sup> / <sub>16</sub> "	20 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>16</sub> "	11 <sup>1</sup> / <sub>16</sub> "
2500/3000	70 <sup>1</sup> / <sub>16</sub> "	79"	35 <sup>5</sup> / <sub>16</sub> "	15 <sup>5</sup> / <sub>16</sub> "	16 <sup>1</sup> / <sub>4</sub> "	8 <sup>5</sup> / <sub>16</sub> "	77 <sup>7</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>2</sub> "	17 <sup>3</sup> / <sub>8</sub> "	52 <sup>1</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	76 <sup>1</sup> / <sub>16</sub> "	16 <sup>1</sup> / <sub>4</sub> "	53 <sup>1</sup> / <sub>16</sub> "	4 <sup>7</sup> / <sub>16</sub> "	20 <sup>3</sup> / <sub>4</sub> "	4"	10 <sup>1</sup> / <sub>4</sub> "

(height dimensions based on 4 1/4" spacing from floor to bottom)

Model No.	AHRI Thermal Efficiency	AHRI Combustion Efficiency	Max Pressure (psi)	Max Input (MBH)	Gross Output (MBH)	Net AHRI Rating (MBH)	Turn Down	Water Conn	Gas Conn	Air/Intake Vent Size (Diameter)	Length	Width	Height	Shipping Weight (lbs)
SVF 1500	96.5%	-	160	1500	1448	1259	7.5:1**	3" Flange	2" FNPT	8"	84.1"	35.2"	79.3"	2,445
SVF 2000	96.2%	-	160	1999	1923	1672	10:1**	3" Flange	2" FNPT	8"	84.1"	35.2"	79.3"	2,445
SVF 2500	96.8%	-	160	2499	2419	2104	8.3:1	3" Flange	2" FNPT	10"	84.1"	35.2"	79.3"	2,850
SVF 3000	-	95.8%	160	3000	2874	2499	10:1	3" Flange	2" FNPT	10"	84.1"	35.2"	79.3"	2,850

\*\*Turn down ratios for natural gas, refer to engineering tech data for propane.

### Industry Leading Efficiency

- Up to 96.8% Thermal Efficiency\*
- ASME Certified Stainless Steel Firetube Heat Exchanger and Shell
- Alternating, Opposed Indentation Firetube Geometry for Maximum Heat Transfer
- 160 psi Working Pressure
- 30 psi Relief Valve

### Modulating, Low Emissions Burner Design

- Natural Gas or Propane
- Up to 10:1 Turndown Ratio\*
- Down to <20ppm NOx Emissions \*
- Low Gas Pressure Operation
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Swirl Plate Enhanced Venturi Mixing System
- Intake Combustion Air Filter
- Negative Pressure Regulated Gas Valve
- 50 VA Transformer
- Temperature & Pressure Gauge
- Outdoor Temp. Sensor
- Outlet & Inlet Water Temp. Sensor
- Flue Gas Temp. Sensor
- System Water Temp. Sensors
  - Immersion Style—Supply & Return

### Venting Options

- Direct Exhaust—Vertical (CAT II)
- Direct Vent—Sidewall, Vertical, & Side Intake with Vertical Exhaust (CAT IV)
- Direct Exhaust—Vertical (CAT IV)

\*model dependent

### Complete Jacket Assembly

- Fully Removable Jacket
- Rugged, Steel Frame & Panels

### Easy Install/Serviceability

- Easy Set-up with Control Wizard
- Industrial-Grade Roller Casters
- Shipping Crate Ramp
- Hinged Cover Plate
- "Door-Fit" Design
- Zero-Clearance to Combustibles
- Stainless Steel Burner with Woven Fiber Mesh
- Removable, Stainless Steel Condensate Tray
- Single-Point Installation
  - All Field Connections (Excludes Gas/Front) Out Back of Boiler

### Multiple Boiler Features

- Up to 8 Boilers, Multiple System functionality with Lead/Lag Capability
- Series, Parallel, or SmartSequencing™
- Lead Boiler Rotation
- Variable Primary Flow Design Capable
- (3) Boiler Priorities Capability—Either (2) Network and (1) Local or (1) Network and (2) Local
- (24) Zone Inputs and Outputs with (8) Total Cascaded Boilers via Zone Stacking™
- Aux Inputs—Flow Switch, End Switch, Etc.
- System Aux Outputs—System Pump or Damper

### Control Features

- SVF 1500/2000—120V/1Ph/60Hz
- SVF 2500/3000—208V/3Ph/60Hz
- Manual Reset Push Button through Display
- Operating Status Color LCD Display
- Preset Operating Parameters Including Typical Heating Systems
- Configurable Outdoor Reset
- Rate Setting for Each Input/Output
- 0-10V Input (Modulation or Set Point)
- Standard Modbus Connectivity
- Additional Heat Demand Functionality
- Contact with 0-10V Output
- Labeled Terminal Blocks for Field Terminations
- Ignition Control
- High Limit & Modulating Temp. Control
- Alarm Control Functionality
- Onboard Time & Date
- Low Water Cut-Off—Manual Reset
- Warm Weather Shutdown
- Freeze Protection
- Boiler Service Interval & Contractor Info

### CSD-1 Compliant

- Manual Reset LWCO
- Manual Reset High & Low Gas Pressure Switches
- UL 353 Certified High Limit Control with Manual Reset
- UL 353 Certified Operating Control

### Non-Pro-Rated Warranty (Residential and Commercial)

- 10 Year Heat Exchanger Warranty
- 2 Year Parts Warranty

### Optional Equipment

- Pressure Relief Valve—50/80/100/150 psi
- System Water Temp. Sensors
  - Strap-On—Supply & Return
- BacNet or LonWorks Converter Kit
- Annual Maintenance Kit
- Corrosion Inhibitor
- Condensate Neutralizer Kit
- Anti-Freeze

### Boiler Certifications

- ASME IV, CSA, AHRI
- SCAQMD\*
- Commercial Energy Star\*



EASY HEAT, EFFORTLESS COMFORT

# Evergreen

## SPECIFICATIONS

MODEL	EVG 220	EVG 299	EVG 399
CSA INPUT (MBH)	220	299	399
DOE HEATING CAPACITY (MBH)	206	280	383*
NET AHRI (MBH)	179	243	333
AFUE	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)
VENT/COMBUSTION AIR CONNECTION DIAMETER	4"	4"	4"
VENT/COMBUSTION AIR PIPE SIZE	3" or 4"	4"	4"
VENTING LENGTH	100'	100'	100'
MIN. RECOMMENDED PIPE SIZE	1¼"	1½"	1½"
SUPPLY/RETURN TAPPING	1½"	1½"	1½"
GAS CONNECTION SIZE	¾"	¾"	¾"
APPROX. SHIPPING WEIGHT (Lbs.)	215	260	260
WATER VOLUME (Gal.)	4.6	7.0	6.7

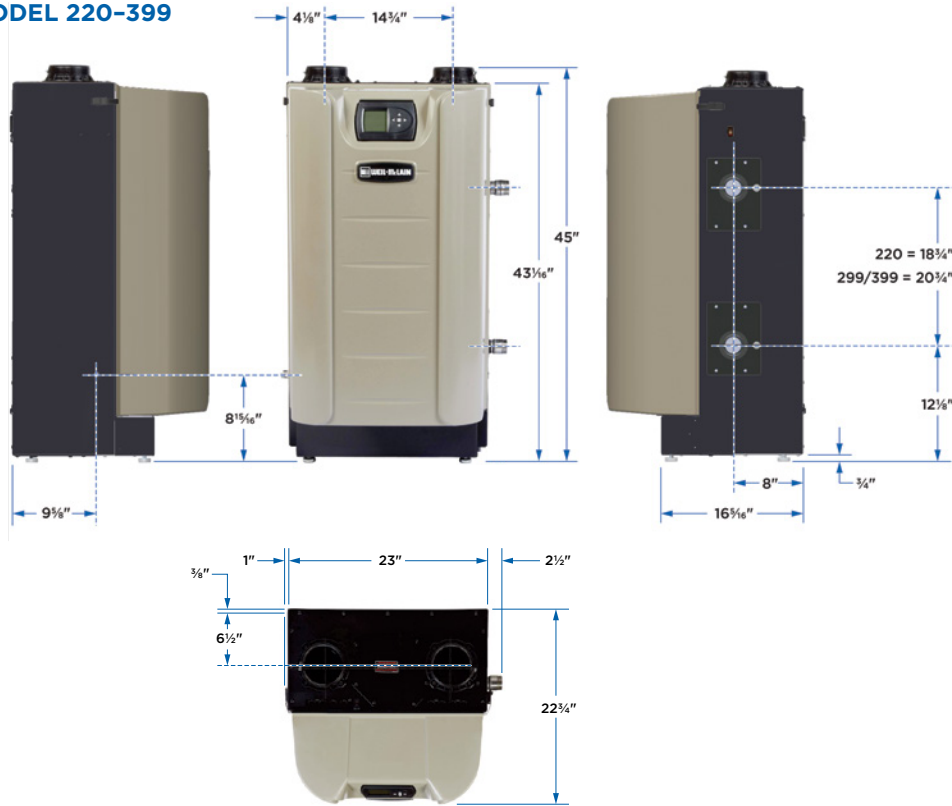
\*Combustion Efficiency

†Model Dependent



## DIMENSIONS

### MODEL 220-399



## APPEALS TO YOUR CUSTOMER, THE COMMERCIAL BUILDING OWNER

- Reduced ownership cost by being energy efficient, energy optimized and environmentally friendly
  - 96.5% combustion efficiency
  - SmartSequencing® – balanced energy load across all system boilers
  - Low NOx < 20PPM certified
  - Ease of maintenance means no high cost maintenance contract
  - Features a durable, commercial grade heat exchanger; reliable and long lasting
  - Qualifies for utility rebates
- Provides better comfort, with controls that provide exactly as much heat as is required
- Wall or floor mount saves space
- Sleek, visually pleasing design adds value to the property

## PROVIDES A SOLUTION FOR SMALL TO MEDIUM SIZED COMMERCIAL PROJECTS

- Quick and easy installation keeps project costs low
  - Arrives completely built and factory tested, no job-site assembly required
  - Compact size and shape makes it easy to maneuver into tight installations; eliminates need for extra rigging
  - Simple to use setup wizard with guided installation
- Available for quick delivery or emergency replacement
  - In stock for immediate shipment
- Innovative controls with ZoneStacking® up to 24 programmable zones without need for additional panel
- Durable design with a stainless steel heat exchanger and non-metallic condensate base

## STANDARD EQUIPMENT:

### BOILER

- Stainless steel firetube heat exchanger
- Non-metallic heat exchanger base
- Floor standing or wall-mount
- Natural or LP gas
- Negative regulated combustion
- 10 to 1 turndown ratio (220-399)
- Boiler circulator
- Taco 0014 (220/299)
- Taco 0013 (399)
- Low water cut-off

### VENTING

- Direct vent 100 ft. for intake and 100 ft. for vent
- Direct exhaust
- Dual pressure zones
- Common combustion air

### 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 front door
- Adjustable boiler legs
- On/off power switch (220-399)
- Line voltage service receptacle (220-399)
- Mounting bracket ready for wall-mount kit (*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
- Propane conversion kit
- Water treatment – inhibitor & test kit

## LIMITED WARRANTY:

- Residential: 12 Years Heat Exchanger; 5 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts

**HIGH-EFFICIENCY CONDENSING BOILER**

Water | Natural or Propane Gas | 230-399 MBH | 3 sizes  
Series 4 | Direct Exhaust or Direct Vent | Up to 91.7% Combustion Efficiency†



**HIGH EFFICIENCY  
CONDENSING BOILER**

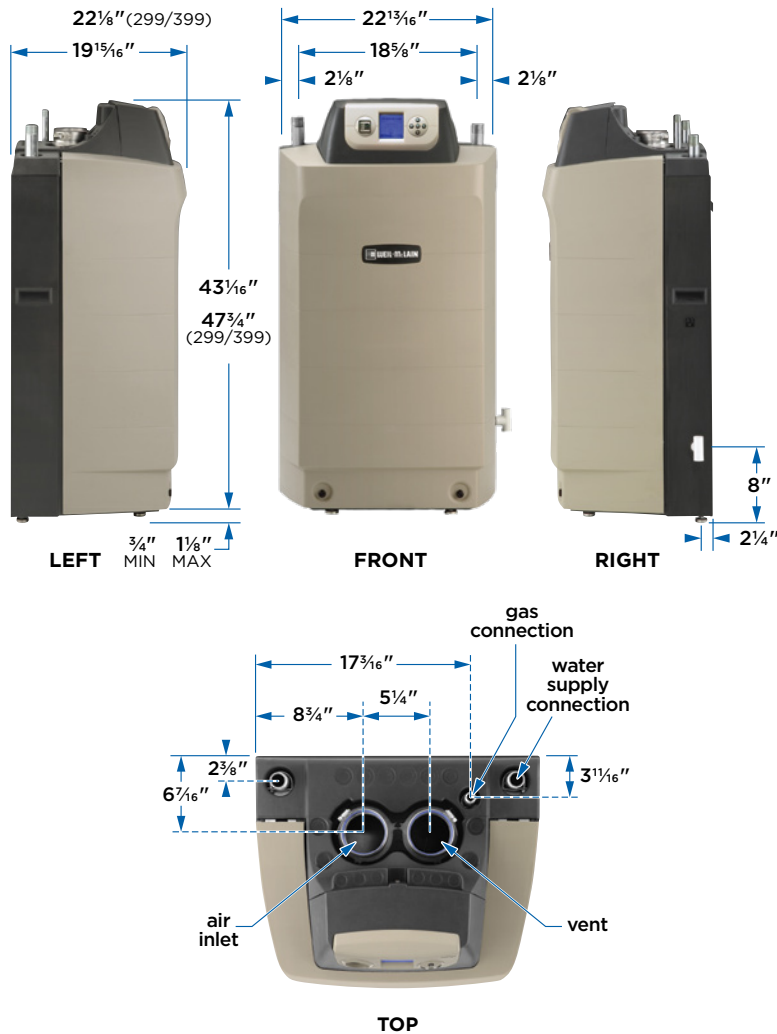
# Ultra

The new Ultra Series 4 features a nano-coated heat exchanger to maximize efficiency and service life.

†Model Dependent



## DIMENSIONS



DIMENSIONS	Ultra 230	Ultra 299	Ultra 399
Min. Recommended Pipe Size	1/4"	1/2"	1/2"
Supply Tappings	1"	1/4"	1/4"
Return Tappings	1"	1/4"	1/4"
Gas Connection Size	1/2"	3/4"	3/4"

## SPECIFICATIONS

RATINGS	Ultra 230	Ultra 299	Ultra 399
CSA Input (Maximum)	230 MBH	299 MBH	399 MBH
CSA Input (Minimum)	46 MBH	62 MBH	80 MBH
DOE Heating Capacity	207 MBH	270 MBH	*364 MBH
Net AHRI	180 MBH	235 MBH	317 MBH
AFUE	94.1%	92.5%	*91.7%

\*Combustion Efficiency

DATA	Ultra 230	Ultra 299	Ultra 399
Vent Size	3" or 4"	4"	4"
Vent Material	PVC/CPVC/PP	PVC/CPVC/PP	PVC/CPVC/PP
Combustion Air Size	3" or 4"	4"	4"
Water Volume	1.57 Gal.	2.1 Gal.	2.1 Gal.
Approx. Shipping Weight	246 Lbs.	297 Lbs.	297 Lbs.

## STANDARD EQUIPMENT:

### BOILER

- Cast aluminum block
- 30 PSI ASME relief valve
- Drain valve
- Stainless Steel Burner with woven steel fiber mesh (230, 299 & 399)
- Direct spark ignition
- Variable speed blower assembly
- Venturi mixing system with air silencer
- Negative pressure regulated gas valve
- 50 VA transformer
- Dual scale temp. & pressure gauge
- Outlet water temp. sensor
- Inlet water temp. sensor
- Flue gas temp. sensor
- Outdoor temp. sensor
- System water temp. sensors
- Fully removable jacket front
- Adjustable boiler legs
- On/off power switch
- Condensate trap with drain tee assembly
- Propane conversion orifice

### U-CONTROL MODULE

- 3.5" LCD display
- Three boiler priorities with multiple preset system configurations
- Color-coded removable terminal blocks
- Multiple boiler functionality
- Alarm control functionality
- Ignition control
- High limit & modulating temp. control
- Low water protection
- Outdoor reset
- Ability to control any combination of 3 circulators

### BOILER CIRCULATORS

- 1" & 1/4" Flanges (230) Taco 0014
- 1/4" & 1/2" Flanges (299) Taco 0014
- 1/4" & 1/2" Flanges (399) Taco 0013

### OPTIONAL EQUIPMENT

- Ultra Easy-Up manifolds
- PVC concentric vent kit
- Sidewall termination cap
- Condensate neutralizer kit
- LWCO kit
- Wall mount kit
- Water treatment – inhibitor & test kit

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 12 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 1 Years Parts



Installs fast.  
Built to last.

**SlimFit®**

HIGH EFFICIENCY CONDENSING BOILER

#### Multiple Direct Exhaust & Vent Options

Venting can be either direct exhaust or direct vent. Acceptable materials include PVC, CPVC, PP and SS (AL29-4C). Maximum vent lengths for fresh air intake and exhaust are up to 100 ft. each.

#### Durable Aluminum Heat Exchanger

Cast aluminum sectional block provides 12 times better heat transfer than stainless steel.

#### Fully Modulating Burner

High-grade single stainless steel burner covered with fiber mesh fires along the entire length of the combustion area. Smart boiler controls provide full combustion modulation with 5:1 turndown ratio (SF550, SF750).

#### Variable Speed Motor

Precise mix of fuel and air is automatically controlled by adjusting fan speed for optimal boiler performance within its entire firing range. The integrated boiler controls consistently match combustion output to building heating needs.

#### Composite Base

Non-metallic heat exchanger base protects against corrosion due to aggressive condensate resulting in long-lasting service backed by industry-leading ten year non-prorated heat exchanger warranty. All other components come with two year warranty as standard.

#### Plug and Play Operation

Each unit is factory wired, pre-programmed, test fired and comes with factory provided test certificate.

#### CSD-1 is Standard

- High & low gas pressure switches (with manual reset and indicator light)
- Manual reset low water cut-off (LWCO)
- Adjustable manual reset high limit
- UL-353 certified limit controls
- Factory test report shipped with boiler

#### Modulating Gas Valve

Safe and reliable operation is provided by a negative pressure regulating gas valve even when supply gas pressure is as low as three inches of water.

#### Common Venting

Common venting is allowed in an engineered Category II vent system on the SlimFit commercial boilers sizes 550 MBH, 750 MBH, 1000 MBH, 1500 MBH and 2000 MBH under the following conditions:

- Maximum number of boilers allowed to be connected to a common duct is eight
- All boilers in the common vent system must be the same size
- Vertical vent only
- Direct exhaust (combustion air from the boiler room) only should be considered

## DIMENSIONS



## SPECIFICATIONS

Model	SF550	SF750
Input Max. (MBH)	550	750
Input Min. (MBH)	110	150
Gross Output (MBH)	517	702
Net AHRI (MBH)	450	610
Thermal Efficiency	93.9%	93.6%
Vent Material	PVC, CPVC, PP, SS (AL29-4C)	PVC, CPVC, PP, SS (AL29-4C)
Vent / Air Size	6" or 8"	6" or 8"
Vent / Air Length	100'	30' or 100'
Min. Gas Pressure (WC)	3.5"	3.5"
Supply / Return Connections	2" NPT Male	2" NPT Male
Gas Connection Size	1 1/4" NPT Male	1 1/4" NPT Male
Full Length	47 1/4"	47 1/4"

The SlimFit® high-efficiency condensing boilers are designed for fast, easy installation in new and existing commercial and institutional settings, including religious, educational and government buildings. The units connect easily on-site—lowering installation costs and ensuring timely project completion.



## STANDARD EQUIPMENT:

### BOILER

- Sectional aluminum block
- 30 PSI ASME relief valve standard (optional 50 & 80 PSI)
- Stainless steel burner with woven steel fiber mesh
- Direct spark ignition
- Variable speed blower assembly
- Venturi mixing system with air silencer
- Negative pressure regulated gas valve
- 50 VA transformer
- Dual scale temperature & pressure gauge
- Outlet water temp. sensor
- Inlet water temp. sensor
- Flue gas temp. sensor
- Outdoor temp. sensor
- System water temp. sensors
- Integrated drain in vent adapter

### CSD-1 COMPLIANT

- Manual reset LWCO
- High & low gas pressure switches (manual reset)
- Manual reset high limit
- UL 353 certified U-Control

### COMPLETE JACKET ASSEMBLY WITH

- Fully removable jacket front
- On/off power switch
- Line voltage service receptacle
- Condensate trap with drain tee assembly
- Propane conversion orifice
- Vent screens

### UNITY™ CONTROL SYSTEM

- Intuitive, color coded display
- Simple set-up (predetermined settings) or fully customizable functions
- Multiple boilers and up to four circulators
- Alarm functionality
- High limit and modulating temperature control
- Outdoor reset and warm weather shutdown
- Programmable maintenance schedule and contractor information
- Low water protection
- Manual reset
- Ignition control
- Adjustable priorities

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 2 Years Parts



Installs fast.  
Built to last.

# SlimFit®

HIGH EFFICIENCY CONDENSING BOILER

### Multiple Direct Exhaust & Vent Options

Venting can be either direct exhaust or direct vent. Acceptable materials include PVC, CPVC, PP and SS (AL29-4C). Maximum vent lengths for fresh air intake and exhaust are up to 100 ft. each.

### Durable Aluminum Heat Exchanger

Cast aluminum sectional block provides 12 times better heat transfer than stainless steel.

### Fully Modulating Burner

High-grade single stainless steel burner covered with fiber mesh fires along the entire length of the combustion area. Smart boiler controls provide full combustion modulation with 6:1 turndown ratio (SF1000-SF2000).

### Variable Speed Motor

Precise mix of fuel and air is automatically controlled by adjusting fan speed for optimal boiler performance within its entire firing range. The integrated boiler controls consistently match combustion output to building heating needs.

### Composite Base

Non-metallic heat exchanger base protects against corrosion due to aggressive condensate resulting in long-lasting service backed by industry-leading ten year non-prorated heat exchanger warranty. All other components come with two year warranty as standard.

### Plug and Play Operation

Each unit is factory wired, pre-programmed, test fired and comes with factory provided test certificate.

### CSD-1 is Standard

- High & low gas pressure switches (with manual reset and indicator light)
- Manual reset low water cut-off (LWCO)
- Adjustable manual reset high limit
- UL-353 certified limit controls
- Factory test report shipped with boiler

### Modulating Gas Valve

Safe and reliable operation is provided by a negative pressure regulating gas valve even when supply gas pressure is as low as three inches of water.

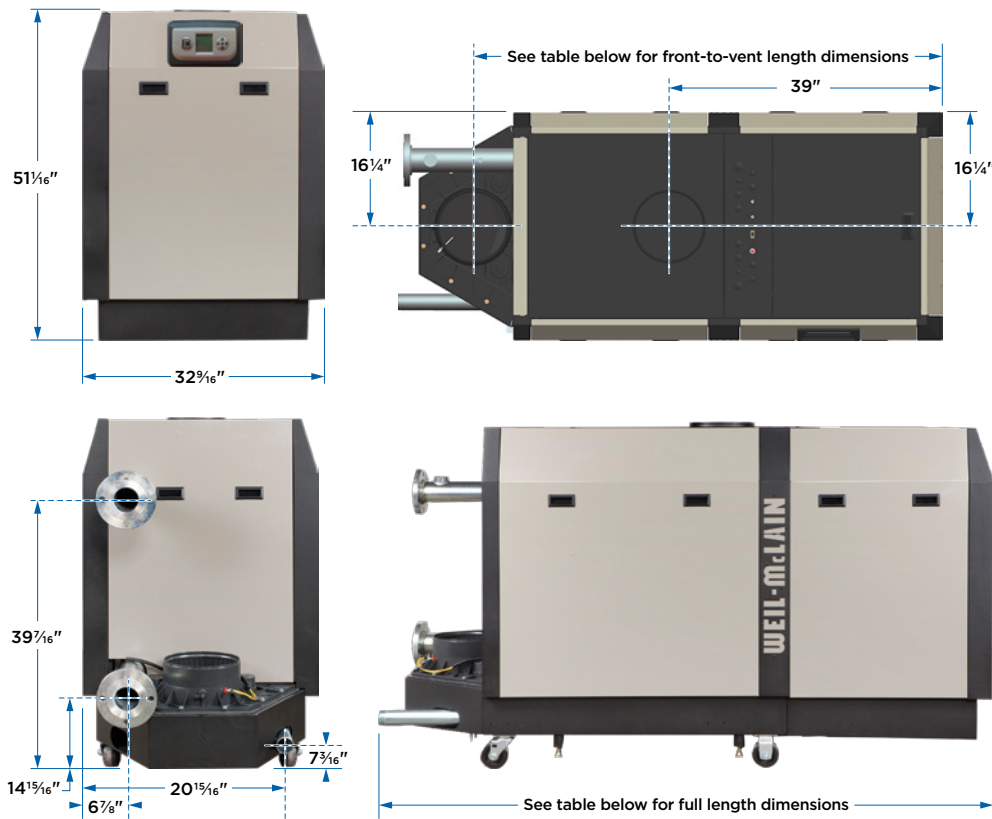
### Common Venting

Common venting is allowed in an engineered Category II vent system on the SlimFit commercial boilers sizes 550 MBH, 750 MBH, 1000 MBH, 1500 MBH and 2000 MBH under the following conditions:

- Maximum number of boilers allowed to be connected to a common duct is eight
- All boilers in the common vent system must be the same size
- Vertical vent only
- Direct exhaust (combustion air from the boiler room) only should be considered



## DIMENSIONS



## SPECIFICATIONS

Model	SF1000	SF1500	SF2000
<b>Input Max. (MBH)</b>	1000	1500	2000
<b>Input Min. (MBH)</b>	167	250	333
<b>Gross Output (MBH)</b>	958	1437	1906
<b>Net AHRI (MBH)</b>	833	1250	1657
<b>Thermal Efficiency</b>	95.8%	95.8%	95.3%
<b>Vent Material</b>	PVC, CPVC, PP, SS (AL29-4C)	PVC, CPVC, PP, SS (AL29-4C)	PVC, CPVC, PP, SS (AL29-4C)
<b>Vent / Air Size</b>	6" or 8"	8"	8"
<b>Vent / Air Length</b>	100' or 150'	100'	100'
<b>Min. Gas Pressure (WC)</b>	3"	3"	3"
<b>Supply / Return Connections</b>	3" ASME Class 150 Flange	3" ASME Class 150 Flange	3" ASME Class 150 Flange
<b>Gas Connection Size</b>	2" NPT Male	2" NPT Male	2" NPT Male
<b>Full Length</b>	77 15/16"	77 15/16"	90 3/16"
<b>Front-To-Vent Length</b>	67 1/16"	67 1/16"	79 1/4"

The SlimFit® high-efficiency condensing boilers are designed for fast, easy installation in new and existing commercial and institutional settings, including religious, educational and government buildings. The units connect easily on-site—lowering installation costs and ensuring timely project completion.



## STANDARD EQUIPMENT:

### BOILER

- Sectional aluminum block
- 30 PSI ASME relief valve standard (Optional 50, 80, & 100 PSI relief valves)
- Stainless steel burner with woven steel fiber mesh
- Direct spark ignition
- Variable speed blower assembly
- Venturi mixing system with air silencer
- Negative pressure regulated gas valve
- 50 VA transformer
- Dual scale temperature & pressure gauge
- Outlet water temp. sensor
- Inlet water temp. sensor
- Flue gas temp. sensor
- Outdoor temp. sensor
- System water temp. sensors
- Integrated drain in vent adapters
- Flame sense rod

### CSD-1 COMPLIANT

- Manual reset LWCO
- High & low gas pressure switches (manual reset)
- Manual reset high limit
- UL 353 certified U-Control

### COMPLETE JACKET ASSEMBLY WITH

- Fully removable jacket front
- On/off power switch
- Condensate trap with drain tee assembly
- Manual reset high limit

### UNITY™ CONTROL SYSTEM

- Single or multiple boiler control (with lead boiler rotation).
- Graphic and robust text display for ease of operation monitoring and troubleshooting.
- Three programmable priority assignments for up to three heat inputs.
- Preset operating parameters for typical heating systems, including target temperatures, reset curves and circulator assignments.
- Integral outdoor reset option, with reset curves matched to the system type selected.
- ModBus communications for external communication and monitoring.

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 2 Years Parts
- Commercial: 10 Years Heat Exchanger; 2 Years Parts





**EGH**  
Atmospheric Gas Boiler



**LGB**  
Atmospheric Gas Boiler



**80 Series**  
Gas, Oil or Oil & Gas  
Cast Iron Boiler



**88 Series**  
Gas, Oil or Oil & Gas  
Cast Iron Boiler



**94 Series**  
Gas, Oil or Oil & Gas  
Cast Iron Boiler



# EGH

## APPLICATIONS INCLUDE:

- Large Residential Homes
- Apartment Buildings
- Small Commercial Buildings
- Indirect-Fired Water Heating

## SPECIFICATIONS

Model <sup>4</sup>	C.S.A. Input MBH <sup>5</sup>	Thermal Efficiency	C.S.A. Gross Output MBH <sup>5</sup>	AHRI Ratings <sup>6</sup>		AHRI Chimney Size <sup>7</sup>
				Steam MBH <sup>5</sup>	Steam (Sq./Ft.)	
<b>EGH-85</b>	315	77.2%	243	182	760	9" I.D. x 20'
<b>EGH-95</b>	360	77.2%	278	208	868	10" I.D. x 20'
<b>EGH-105</b>	405	77.1%	312	234	977	10" I.D. x 20'
<b>EGH-115</b>	450	77.1%	347	260	1,085	12" I.D. x 20'
<b>EGH-125</b>	495	77.1%	382	286	1,193	12" I.D. x 20'

<sup>4</sup>Add "PI" to designator for intermittent electronic ignition system (standard for EGH-105 through 125).

<sup>5</sup>MBH refers to thousands of BTU per hour.

<sup>6</sup>Net 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. Steam ratings are based on a piping and pick-up allowance of 1.333. An additional allowance should be made for unusual piping and pickup loads. Ratings shown are for elevations up to 2,000 feet. For elevations above 2,000 feet, reduce ratings at rate of 4 percent per 1000 feet above sea level.

<sup>7</sup>Chimney size based on lined chimney

**NOTE:** Boiler is CSA design certified for installation on non-combustible flooring only.

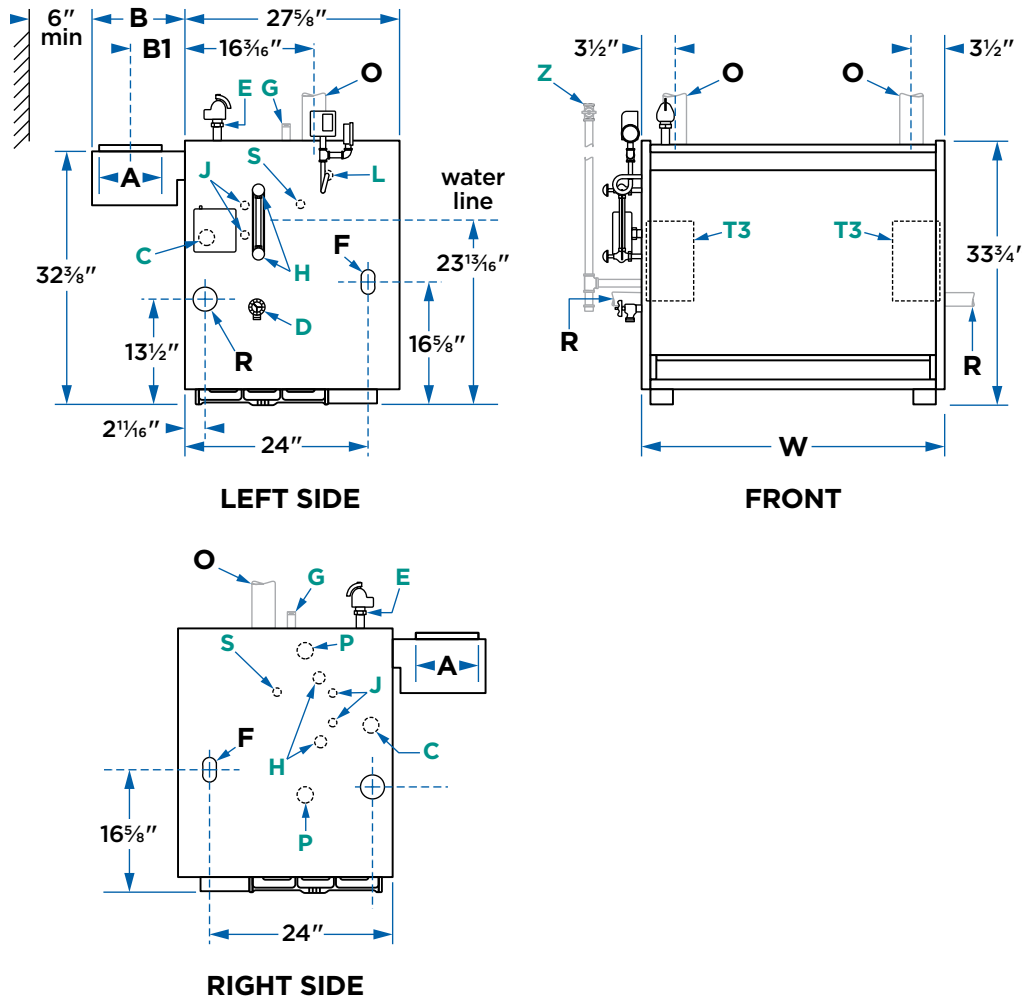
- Unmatched comfort and reliability
- Easy to install and service
- Made with Weil-McLain quality

†Model Dependent

## DIMENSIONS

Model Number	Supply EGH O	Return EGH R	Dimensions				Gas Connection F <sup>1</sup>	Draft Hood Outlet Size	Approx. Shipping weight (Lbs.)
			W	A	B	B1			
EGH-85	2-3"	2-2½"	38¼"	9"	15¾"	8¾"	¾"	9"	825
EGH-95	2-3"	2-2½"	42½"	10"	15¾"	8¾"	¾"	10"	915
EGH-105	2-3"	2-2½"	46¾"	10"	15¾"	8¾"	1"	10"	1,005
EGH-115	2-3"	2-2½"	51"	12"	15¾"	8¾"	1"	12"	1,095
EGH-125	2-3"	2-2½"	55¼"	12"	15¾"	8¾"	1"	12"	1,185

<sup>1</sup>Sizes shown are gas connection sizes, natural or liquefied petroleum (propane) gas. Gas piping from meter to boiler to be sized according to local utility requirements. Gas line can enter on either the right or left end of the boiler.



Tapping	Size (in.)	Steam Boilers
C	¾	Probe type low water cut-off
D	¾	Drain
E	¾	Safety Valve
G	¾	Plugged
H	½	Gauge glass and/or optional LWCO
J	¾	Tri cock tappings
L	½	Siphon, pressure gauge, high limit (probe type LWCO)
P	1	Float type LWCO, pressure limit control and pressure gauge or LWCO and feeder combination or LWCO and pump control
S	1½	Skim tapping
	¾	— (2)
T3		Optional steam boiler tankless heater
Z		Manual shut-off gas valve (supplied by installer)

<sup>2</sup>Available on special request only, when tankless heater is specified.

<sup>3</sup>When a tankless water heater coil is installed, use the tapping in the heater for an additional operating control.

## STANDARD EQUIPMENT:

### BOILER

- Factory-assembled section block
- Insulated extended jacket
- Horizontal to vertical draft hood
- Stainless steel burners
- Burner shield
- Combination gas valve for 24 volt
- Non-linting pilot burner
- Electrical junction box
- 40 VA transformer (with receptacle for plug-in relay)
- Highest efficiency model—PI with damper
  - Intermittent electronic ignition system and automatic vent damper
- High efficiency model—PI intermittent electronic ignition
- Standard efficiency model (EGH-85 and EGH-95 only) constant burning, thermally supervised pilot system and thermocouple
- 15 PSI ASME relief valve
- Steam pressure gauge
- High-limit pressure control
- Siphon
- Gauge cocks and glass
- Low-water cutoff—electrode type

### OPTIONAL EQUIPMENT:

- Automatic vent damper (for natural gas boilers with electronic ignition)
- Low-water cutoffs
- EGH boiler with openings for tankless heaters
- Tankless heaters (water and steam)

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 1 Year Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts



# LGB

## Versatile combustion control systems

### APPLICATIONS INCLUDE:

- Apartment Buildings
- Commercial Buildings
- Schools and Other Institutions
- Multiple Boilers
- Indirect-Fired Water Heating

### SPECIFICATIONS

Boiler Model Number <sup>1</sup>	A.G.A Input MBH <sup>2</sup>	A.G.A Gross Output MBH <sup>2</sup>	AHRI Certified Ratings <sup>3</sup>			Boiler H.P.	Boiler Water Content (Gal.)		Thermal Efficiency		Approx. Shipping Weight (Lbs.)	Vent Breeching inches I.D. Chimney or Equivalent <sup>4</sup>
			Steam MBH <sup>2</sup>	Steam (Sq./Ft.)	Water MBH <sup>2</sup>		Steam (to waterline)	Water	Steam	Water		
LGB-4	400	324	243	975	280	9.7	23.2	36.5	78.0%	80.5%	1,185	10
LGB-5	520	421	307	1,279	364	12.6	28.9	45.6	78.7%	80.5%	1,455	12
LGB-6	650	527	386	1,607	455	15.7	34.3	54.7	79.1%	80.5%	1,725	12
LGB-7	780	632	464	1,936	546	18.9	40.3	63.9	79.4%	80.5%	2,005	12
LGB-8	910	737	543	2,264	641	22.0	46.0	73.0	79.6%	81.0%	2,290	14
LGB-9	1040	842	622	2,591	733	25.2	51.9	82.1	79.7%	81.1%	2,560	14
LGB-10	1170	948	701	2,918	826	28.3	57.6	91.2	79.8%	81.2%	2,800	16
LGB-11	1300	1053	779	3,246	919	31.5	63.4	100.4	79.9%	81.3%	3,105	16
LGB-12	1430	1158	858	3,576	1013	34.6	69.1	109.5	80.0%	81.5%	3,365	16
LGB-13	1560	1264	929	3,867	1107	37.8	74.9	118.6	79.4%	81.6%	3,785	16
LGB-14	1690	1369	1015	4,228	1201	40.9	80.7	127.7	79.5%	81.7%	4,085	16
LGB-15	1820	1474	1102	4,592	1295	44.0	86.4	136.9	79.6%	81.8%	4,355	16
LGB-16	1950	1580	1188	4,950	1389	47.2	92.2	146.0	79.6%	81.9%	4,725	17
LGB-17	2080	1685	1276	5,316	1485	50.3	98.0	155.1	79.7%	82.1%	4,975	17
LGB-18	2210	1790	1364	5,682	1580	53.5	103.6	164.2	79.8%	82.2%	5,270	18
LGB-19	2340	1895	1448	6,034	1675	56.6	109.5	173.4	79.8%	82.3%	5,540	18
LGB-20	2470	2001	1533	6,384	1770	59.8	115.3	182.5	79.9%	82.4%	5,820	19
LGB-21	2600	2106	1613	6,720	1919	62.9	121.0	191.6	79.9%	82.5%	6,080	19
LGB-22	2730	2211	1696	7,065	2016	66.1	126.8	201.2	80.0%	82.6%	6,365	19
LGB-23	2860	2317	1776	7,402	2111	69.2	132.5	209.8	80.0%	82.8%	6,625	20

<sup>1</sup>Add to boiler number "S" for Steam, "W" for Water. For LGB-4 through 14 only: add prefix "A-" to designator for factory-assembled sections (example: A-LGB-4). Add prefix "P-" to designator for fire-tested packaged unit (example: P-LGB-4). Note: IRI gas trains for LGB-5 through 14 are removed for shipping.

<sup>2</sup>MBH refers to thousands of BTU per hour.

<sup>3</sup>Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirement of the building and nothing need be added for normal piping and pick-up. Water ratings are based on a piping and pick-up allowance of 1.15. Steam ratings based on the following allowances: LGB-4 through 12: 1.33/LGB-13: 1.332/LGB-14: 1.322/LGB-15: 1.312 / LGB-16: 1.304/LGB-17: 1.297/LGB-18: 1.292/LGB-20 through 23: 1.288. An additional allowance should be made for gravity hot water systems or unusual piping and pickup loads. Ratings shown are for elevations up to 2,000 feet. For elevations above 2,000 feet, reduce ratings at rate of 4 percent per 1000 feet above sea level.

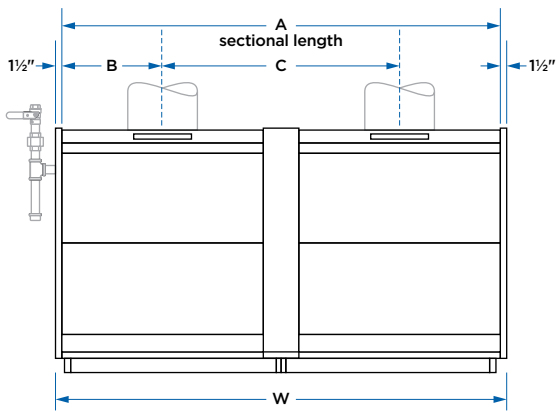
<sup>4</sup>20' chimney height may be used based on using a 6' length of connector for breeching of the size shown from the nearest draft hood outlet to the chimney or vent with not more than one standard sloping-type 90° elbow. If individual vertical vents are to be used, each vent diameter should be the same size as the respective draft hood outlet and the height may be reduced to 5' measured above the draft hood outlet.

**NOTE:** Water boilers tested at 80 PSI working pressure.

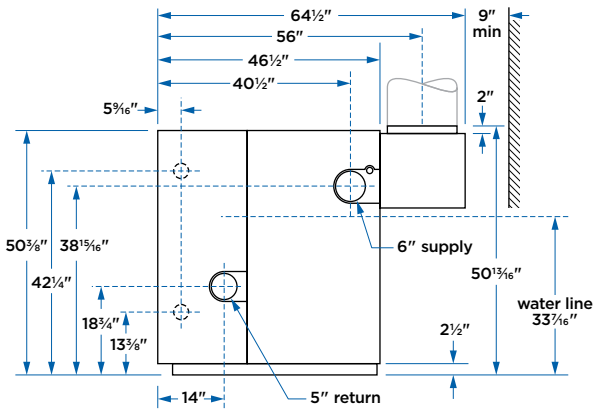
†Model Dependent



## DIMENSIONS



FRONT



RIGHT SIDE

Model	Dimensions (In.)				Draft Hood Outlet(s)	
	A	B	C	W	Qty.	Size
LGB-4	18	9	—	21	1	10"
LGB-5	23	11½	—	26	1	12"
LGB-6	28	14	—	31	1	12"
LGB-7	33	16½	—	36	1	12"
LGB-8	38	19	—	41	1	14"
LGB-9	43	21½	—	46	1	14"
LGB-10	48	24	—	51	1	16"
LGB-11	53	26½	—	56	1	16"
LGB-12	58	29	—	61	1	16"
LGB-13	63	16½	30	66	2	12"
LGB-14	68	19	32½	71	1	12"
LGB-15	73	19	35	76	2	14"
LGB-16	78	21½	37½	81	2	14"
LGB-17	83	21½	40	86	2	14"
LGB-18	88	24	42½	91	1	14"
LGB-19	93	24	45	96	2	16"
LGB-20	98	26½	47½	101	2	16"
LGB-21	103	26½	60	106	2	16"
LGB-22	108	29	52½	111	2	16"
LGB-23	113	29	55	116	2	16"

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

## STANDARD EQUIPMENT:

### ALL UNITS

- Cast iron sections
- Insulated extended jacket
- Aluminized steel collector hood(s) and draft hood(s)
- Control transformer (120/24v)
- Factory-assembled burner and base unit(s):
  - One piece aluminized steel burners
  - Gas manifold
  - Aluminized steel base panels
  - Hi-temp insulated board
- Wiring harness: junction box and pre-wired flexible conduit

### LGB-4 AND LGB-5:

- Flame Guardian® pre-wired control panel with flame rectification electronic control system for each base assembly:
  - Terminal block
  - Cast iron sections having integral spark generators
  - Intermittent electronic ignition pilot system
  - Electronically supervised pilot burner with ignition electrode and flame rod
  - Main flame sensor rod

### WATER BOILERS

- Combination operating and high limit temperature control (LGB-4 through 20 only)
- Operating temperature control (LGB-21 through 23 only)
- High limit temperature control (LGB-21 through 23 only)
- 30 PSI ASME relief valve-side outlet
- Built-in air eliminator in end sections
- Probe-type low water cutoff, PSI-851-120 (packaged only)
- Combination pressure temperature gauge

### STEAM BOILERS

- Operating pressure control
- High limit pressure control
- Compound pressure-vacuum gauge
- Gauge cocks, glass and guards
- 15 PSI ASME relief valve-side outlet
- Float-type low water cutoff, MM no. 61 LWCO
- 30 PSI ASME relief valve-side outlet
- Built-in air eliminator in end sections
- Probe-type low water cutoff, PSI-851-120 (packaged only)
- Combination pressure temperature gauge

### STEAM BOILERS

- Operating pressure control
- High limit pressure control
- Compound pressure-vacuum gauge
- Gauge cocks, glass and guards
- 15 PSI ASME relief valve-side outlet
- Float-type low water cutoff, MM no. 61 LWCO

## ADDITIONAL EQUIPMENT

- WFFP control panels (LGB-6 through 23)
- WMBC control panels (LGB-5 through 23)
- Probe-type low water cutoff, ps-851-120 (non-packaged water only)
- Factory-assembled sections (LGB-4 through 14 only)
- Fire-tested packaged unit (LGB-4 through 14 only)
- 1½" inspection tappings with brass plugs—two for each section
- 80 PSI working pressure test of sections
- Water level controls and low water cutoffs
- Low-high-low firing (LGB-6 through 12 only)
- Stage firing (LGB-13 through 23 only)
- Energy management control systems (BCP panels)
- IRI, FM and CSD-1 control systems
- Weil-McLain and Aqua Plus indirect-fired water heaters
- Weil-McLain pool heaters
- Weil-McLain brazed plate heat exchangers
- Natural gas to propane gas conversion kit

## WFFP™ CONTROL PANEL

### EQUIPMENT STANDARD:

- WFFP-1 Panel (LGB-6 through 12)
- WFFP-2 Panel (LGB-13 through 23)
  - 30-second time delay relay (two on WFFP-2)
  - Two 24V DPDT relays (four on WFFP-2)
  - Terminal block
  - Fuse (two on WFFP-2)
  - Toggle switch
  - Four indicator lamps (eight on WFFP-2)

### ADDITIONAL:

- Alarm bell and transformer for remote indication of flame failure
- Alarm bell—panel mounted

## WMBC™ CONTROL PANEL

### EQUIPMENT STANDARD:

- WMBC-1A panel (LGB-5 through 12)
- WMBC-2A Panel (LGB-13 through 23)
  - Motorized gas train
  - Interruptible pilot (intermittent pilot for adjacent base and additional control module)
  - Pre-wired control panel:
    - Flame safeguard primary control
    - Pre-purge control timer
    - Relay(s)
    - Terminal block
    - Fuse (two on WMBC-2A)
    - Four toggle switches
    - Five indicator lamps
    - Alarm bell

## LIMITED TRANSFERABLE

### WARRANTY:

- Residential: 10 Years Heat Exchanger; 1 Year Parts
- Commercial: 10 Years Heat Exchanger; 1 Years Parts



# 80

## SERIES

### APPLICATIONS INCLUDE:

- Weil-McLain captured seal design
- For light oil, gas and dual fuel combustion
- Packaged, assembled block or knock-down
- Available for water and steam heating systems
- Available as forced or chimney draft venting

### SPECIFICATIONS

Boiler Model	AHRI			Boiler H.P.	AHRI Net Rating				Net Firebox Volume (Cu./Ft.)	Stack Gas Volume CFM	Positive Pressure in Firebox	Water Boiler Content (Gal.)	Operating Weight (Lbs.)	Thermal Efficiency	
	Oil Input GPH	Gas Input MBH	Gross Output MBH		Steam MBH	Steam (Sq./Ft.)	Water MBH	Flue Outlet (Diam.)						Oil	Gas
<b>380</b>	2.4	346	278	8.3	209	867	242	8"	2.61	139	0.28	37.5	1,170	82.7%	80.2%
<b>480</b>	3.4	491	396	11.8	297	1,238	344	8"	3.97	198	0.28	49	1,411	83.2%	80.7%
<b>580</b>	4.45	639	515	15.5	386	1,608	448	8"	5.33	259	0.28	60.5	1,752	83.1%	80.6%
<b>680</b>	5.5	787	634	18.9	476	1,983	551	8"	6.69	320	0.27	72	2,093	83.1%	80.6%
<b>780</b>	6.5	935	753	22.5	565	2,354	655	10"	8.05	378	0.27	83.5	2,434	83.1%	80.6%
<b>880</b>	7.5	1082	872	26	654	2,725	758	10"	9.41	436	0.27	95	2,774	83.0%	80.6%
<b>980</b>	8.5	1230	991	29.6	743	3,096	862	10"	10.77	494	0.27	106.5	3,115	83.0%	80.5%
<b>1080</b>	9.6	1378	1110	33.2	833	3,471	965	10"	12.13	558	0.26	118	3,456	83.0%	80.5%
<b>1180</b>	10.6	1526	1229	36.7	922	3,842	1069	10"	13.49	616	0.26	129.5	3,697	83.0%	80.5%
<b>1280</b>	11.6	1674	1348	40.3	1,018	4,242	1172	12"	14.85	675	0.26	141	4,038	83.0%	80.5%

**NOTES:**

Burner input based on maximum of 2,000 feet altitude. For higher altitudes consult local Weil-McLain representative.

NO.2 fuel oil commercial standard spec. CS75-56. Heat value of oil: 140,000 Btu/gal.

Consult Weil-McLain burner specifications and data sheet for gas pressures required. Gross AHRI ratings have been determined under the AHRI provision forced draft boiler-burner units.

Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pickup. Water ratings are based on a piping and pickup allowance of 1.15. Steam ratings are based on the following allowances: 380 through 1180: 1.333; 1280: 1.321. An additional allowance should be made for gravity hot water systems or for unusual piping and pickup loads. Consult local Weil-McLain representative.

Stack gas volume at outlet temperature

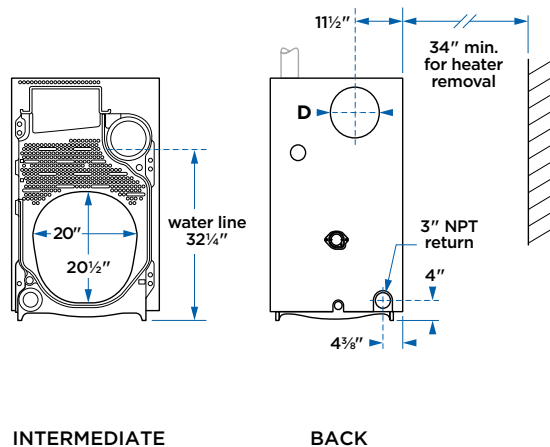
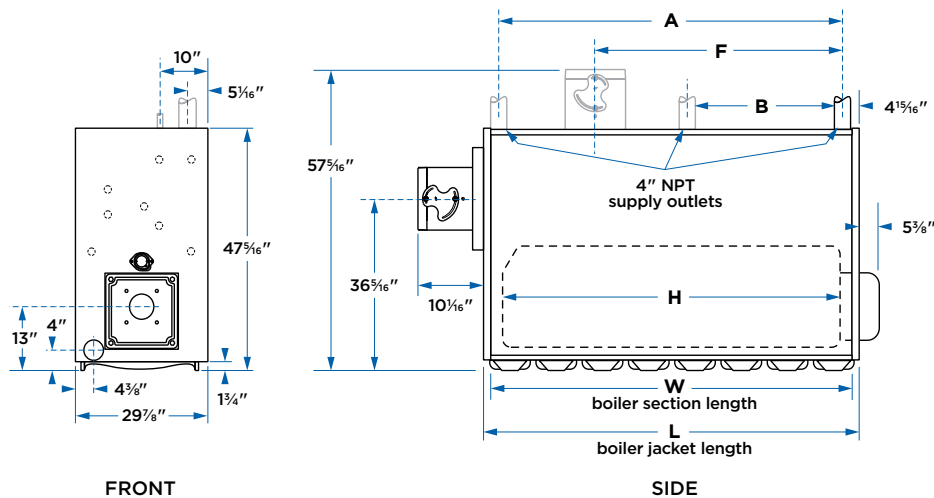
With 0.10" W.C. positive pressure at flue collar.

†Model Dependent



## DIMENSIONS

Boiler Model	Supply Tapping				Return Tapping				Dimensions (In.)—Reference Drawings Above						
	Water		Steam		Water		Steam		A	B	D	F	H	L	W
	Qty.	Size	Qty.	Size	Qty.	Size	Qty.	Size							
380	2	4"	2	4"	2	3"	2	3"	13 $\frac{1}{8}$	—	8	12 $\frac{1}{16}$	13 $\frac{1}{2}$	21 $\frac{1}{8}$	20 $\frac{3}{8}$
480	2	4"	2	4"	2	3"	2	3"	20 $\frac{1}{8}$	—	8	13 $\frac{3}{8}$	20 $\frac{1}{2}$	28 $\frac{3}{8}$	27 $\frac{3}{8}$
580	2	4"	2	4"	2	3"	2	3"	27 $\frac{1}{8}$	—	8	13 $\frac{3}{8}$	27 $\frac{1}{2}$	35 $\frac{3}{8}$	34 $\frac{3}{8}$
680	2	4"	2	4"	2	3"	2	3"	34 $\frac{1}{8}$	—	8	13 $\frac{3}{8}$	34 $\frac{1}{2}$	42 $\frac{3}{8}$	41 $\frac{3}{8}$
780	2	4"	2	4"	2	3"	2	3"	41 $\frac{1}{8}$	—	10	27 $\frac{3}{8}$	41 $\frac{1}{2}$	49 $\frac{3}{8}$	48 $\frac{3}{8}$
880	2	4"	2	4"	2	3"	2	3"	48 $\frac{1}{8}$	—	10	27 $\frac{3}{8}$	48 $\frac{1}{2}$	56 $\frac{3}{8}$	55 $\frac{3}{8}$
980	2	4"	2	4"	2	3"	2	3"	55 $\frac{1}{8}$	—	10	41 $\frac{1}{8}$	55 $\frac{1}{2}$	63 $\frac{3}{8}$	62 $\frac{3}{8}$
1080	2	4"	3	4"	2	3"	2	3"	62 $\frac{1}{2}$	27 $\frac{1}{16}$	10	41 $\frac{1}{8}$	62 $\frac{1}{2}$	70 $\frac{3}{8}$	69 $\frac{3}{8}$
1180	2	4"	3	4"	2	3"	2	3"	69 $\frac{1}{8}$	34 $\frac{3}{16}$	10	55 $\frac{3}{8}$	69 $\frac{1}{2}$	77 $\frac{3}{8}$	76 $\frac{3}{8}$
1280	2	4"	3	4"	2	3"	2	3"	76 $\frac{1}{8}$	34 $\frac{3}{16}$	12	55 $\frac{3}{8}$	76 $\frac{1}{2}$	84 $\frac{3}{8}$	83 $\frac{3}{8}$



## STANDARD EQUIPMENT:

### ALL BOILERS

- Cast iron sections
- Insulated steel jacket
- Flame retention burner (except H-80)
- Burner mounting plate with refractory (except H-80)
- Aluminized steel flue collector assembly
- Steel flue collar and breeching damper
- Observation ports on front and rear sections
- Refractory blanket and target wall in combustion area
- Side cleanout plates
- Flue brush

### WATER BOILERS:

- 30 PSIG ASME safety valve (sections tested for 80 PSIG maximum working pressure)
- Combination high limit/low limit control
- Combination pressure/temperature gauge
- Built-in air eliminator

### STEAM BOILERS:

- 15 PSIG ASME safety valve (side outlet)
- Low limit and high limit pressure controls
- Steam pressure gauge
- Gauge glass, gauge cocks and gauge guards

### OPTIONAL EQUIPMENT:

- Low water cut-offs (probe or float type)
- Tankless heaters
- Burner mounting plate (for H-80 boilers)
- Factory assembled sections
- Fire-tested packaged boiler (with low water cut-off)
- Burner manufacturers: Beckett, Carlin, Powerflame, Reillo & Webster
- Burner fire options: On-off, low-high-off, low-high-low or Modulation
- Burner Fuel: natural gas, LP gas, oil, or combination burners such as: gas-oil

### LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 1 Year Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts



# 88

## SERIES

### APPLICATIONS INCLUDE:

- Up to 85.7% thermal efficiency
- Complies with LEED
- Packaged or knock-down

### SPECIFICATIONS

Boiler Model	AHRI			AHRI Net Rating				Flue Outlet (Diam.)	Thermal Efficiency	
	Oil Input GPH	Gas Input MBH	Gross Output MBH	Steam MBH	Steam (Sq./Ft.)	Water MBH	Boiler H.P.		Oil	Gas
488R	6.9	996	827	620	2,583	719	24.7	10"	85.6%	83.1%
488	7.0	1010	839	629	2,621	730	25.1	10"	85.6%	83.1%
588	9.4	1356	1126	845	3,521	979	33.6	10"	85.6%	83.1%
688	11.8	1701	1413	1072	4,469	1,229	42.2	10"	85.6%	83.1%
788	14.2	2046	1700	1311	5,463	1,478	50.8	12"	85.6%	83.1%
888	16.6	2382	1987	1543	6,427	1,728	59.4	12"	85.6%	83.1%
988R	17.2	2482	2062	1601	6,671	1,793	61.6	14"	85.6%	83.1%
988	18.8	2737	2274	1766	7,358	1,977	67.9	14"	85.6%	83.1%
1088R	20.0	2887	2399	1863	7,763	2,086	71.7	14"	85.6%	83.1%
1088	21.5	3082	2561	1988	8,283	2,227	76.5	14"	85.6%	83.1%
1188	23.5	3428	2848	2211	9,213	2,477	85.1	14"	85.7%	83.1%
1288	26.0	3773	3135	2434	10,147	2,726	93.7	14"	85.7%	83.1%
1388	28.5	4119	3422	2657	11,071	2,976	102.2	14"	85.7%	83.1%
1488	31.0	4464	3709	2880	12,000	3,225	110.8	16"	85.7%	83.1%
1588	33.0	4809	3996	3102	12,925	3,475	119.4	16"	85.7%	83.1%
1688R	34.5	4976	4137	3212	13,383	3,597	123.6	16"	85.7%	83.1%
1688	35.5	5155	4283	3325	13,854	3,724	127.9	16"	85.7%	83.1%
1788	38.0	5494	4570	3548	14,783	3,974	136.5	18" <sup>†</sup>	85.7%	83.1%
1888	40.5	5845	4857	3771	15,713	4,123	145.1	18" <sup>†</sup>	85.7%	83.1%

#### NOTES:

Burner input based on maximum of 2,000 feet altitude – for higher altitudes consult Weil-McLain representative.

No. 2 fuel oil commercial standard spec. CS75-56. Heat value of oil: 140,000 BTU/G.

Stack gas volume at outlet temperature

Consult Weil-McLain burner specifications sheets for gas pressures required.

Gross AHRI ratings have been determined under the AHRI provision governing forced draft boiler-burner units.

Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pickup. Water ratings are based on a piping and pickup allowance of 1.15. Steam ratings are based on the following allowances: 488 and 588: 1.333; 688: 1.323; 788: 1.300; 888: 1.289; and 988 through 1888: 1.288. An additional allowance should be made for gravity hot water systems or for unusual piping and pickup loads. Consult Weil-McLain representative.

<sup>†</sup>Flue collar connection is oval, 16 $\frac{1}{2}$  x 19 $\frac{1}{2}$ .

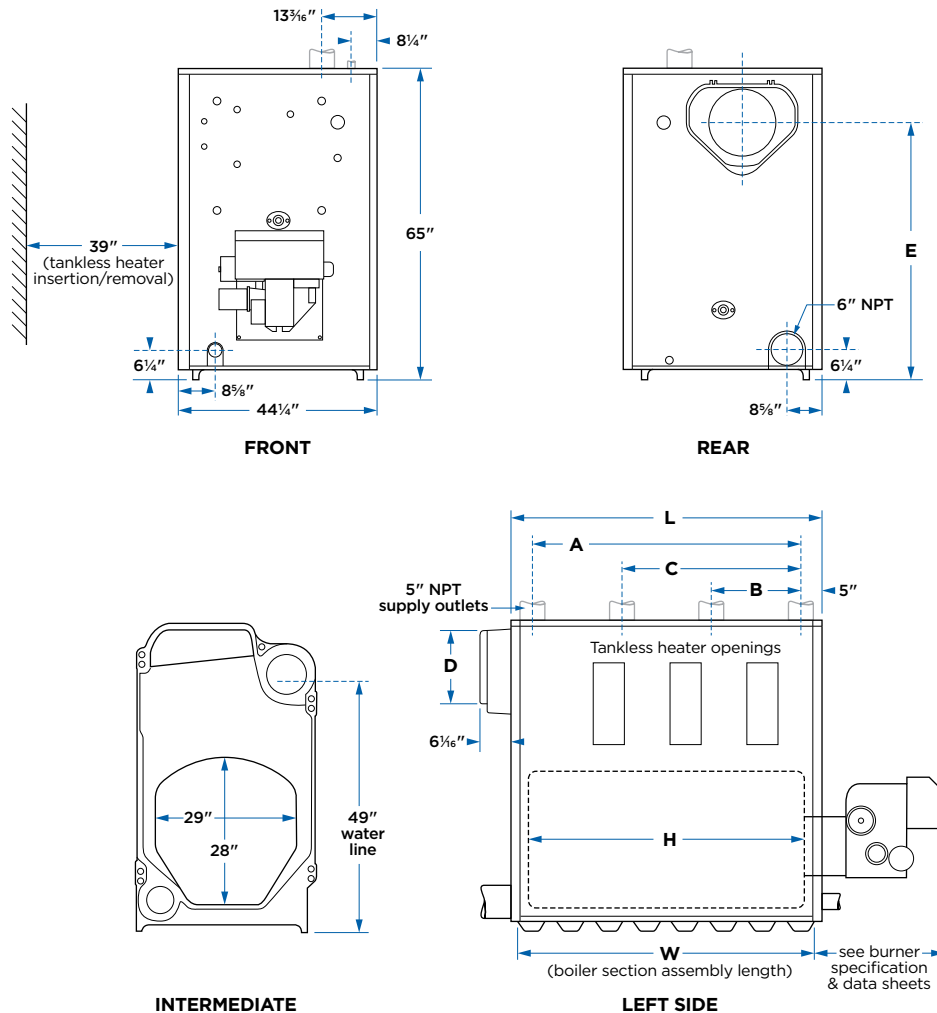
<sup>†</sup>Model Dependent



# DIMENSIONS

Boiler Model	Supply Tapping				Return Tapping				AHRI Vent or Liner (Diam./In.)		Dimensions (In.) – Reference Drawings Opposite							
	Steam		Water		Steam		Water		Forced Draft	Balanced Draft	A	B	C	D	E	L	W	H
	Qty.	Size	Qty.	Size	Qty.	Size	Qty.	Size										
488R	2	5"	2	5"	1	6"	1	6"	10	12	23	—	—	10	54¾	34¾	30	23¾
488	2	5"	2	5"	1	6"	1	6"	10	12	23	—	—	10	54¾	34¾	30	23¾
588	2	5"	2	5"	1	6"	1	6"	10	15	31	—	—	10	54¾	42¾	38	31¾
688	2	5"	2	5"	1	6"	1	6"	12	15	39	—	—	10	54¾	50¾	46	39¾
788	2	5"	2	5"	1	6"	1	6"	12	18	47	—	—	12	53¾	58¾	54	47¾
888	2	5"	2	5"	1	6"	1	6"	14	18	55	—	—	12	53¾	66¾	62	55¾
988R	2	5"	2	5"	1	6"	1	6"	14	18	63	—	—	14	52¾	74¾	70	63¾
988	2	5"	2	5"	1	6"	1	6"	14	18	63	—	—	14	52¾	74¾	70	63¾
1088R	2	5"	2	5"	1	6"	1	6"	14	21	71	—	—	14	52¾	82¾	78	71¾
1088	2	5"	2	5"	1	6"	1	6"	14	21	71	—	—	14	52¾	82¾	78	71¾
1188	2	5"	2	5"	1	6"	1	6"	16	21	79	—	—	14	52¾	90¾	86	79¾
1288	3	5"	2	5"	1	6"	1	6"	16	21	87	39½	—	14	52¾	98¾	94	87¾
1388	3	5"	2	5"	1	6"	1	6"	16	24	95	47½	—	14	52¾	106¾	102	95¾
1488	3	5"	2	5"	1	6"	1	6"	18	24	103	55½	—	16	51¾	114¾	110	103¾
1588	3	5"	2	5"	1	6"	1	6"	18	24	111	63½	—	16	51¾	122¾	118	111¾
1688R	3	5"	2	5"	1	6"	1	6"	18	24	119	47½	—	16	51¾	130¾	126	119¾
1688	3	5"	2	5"	1	6"	1	6"	18	24	119	47½	—	16	51¾	130¾	126	119¾
1788	4	5"	2	5"	1	6"	1	6"	18	24	127	31½	79½	18'	51¾	138¾	134	127¾
1888	4	5"	2	5"	1	6"	1	6"	20	27	135	39½	87½	18'	51¾	146¾	142	135¾

<sup>1</sup>For 18" diameter breaching, flue collar is oval (16½ x 19½)



# STANDARD EQUIPMENT:

## ALL BOILERS

- ASME 80 PSI rated cast iron sections
- Insulated steel jacket
- Power burner for light oil, gas or gas/light oil (except H-XX88)
- Burner mounting plate with refractory (except H-XX88)
- Cast iron flue collar with built-in breaching damper
- Observation ports on front and back sections
- Cleanout plates with reusable gaskets
- Flue brush
- HXT-bars
- 3 in. of insulation (except front panel)

## WATER BOILERS:

- 30 PSI ASME relief valve
- Combination high limit and low limit with manual reset control
- Combination pressure/temperature gauge
- Nipple and 5" x 6" reducing coupling (1288-1888 boilers only)
- Built-in air eliminator

## STEAM BOILERS:

- 5 PSI ASME safety valve side outlet
- Low limit and high limit pressure controls
- Steam pressure gauge siphon
- Gauge cocks, glass and guards

## OPTIONAL EQUIPMENT:

- Factory assembled sections
- Burner mounting plate with refractory for "H" units
- Intermediates with tankless heater opening
- Tankless heaters for domestic hot water (water or steam boilers)
- Tankless heater opening cover plates
- Low water cutoffs
- Barometric dampers
- Side inspection tappings with plugs – 2 per section
- Dual-range manometer
- Burner manufacturers: Beckett, Carlin, Powerflame, Reillo & Webster
- Burner fire options: On-off, low-high-off, low-high-low or modulation
- Burner Fuel: natural gas, LP gas, oil, or combination burners such as: gas-oil

## LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 1 Year Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts



# 94

## SERIES

### APPLICATIONS INCLUDE:

- Packaged for knock down
- Easy to install and service

### SPECIFICATIONS

Boiler Model	AHRI Burner Capacity			Gross Steam Output MBH	Gross Water Output MBH	AHRI Burner Capacity			Boiler H.P.	Net Firebox Volume (Cu./Ft.)	Stack Gas Volume CFM Light Oil & Gas	Draft Loss Through Boiler-In. H <sub>2</sub> O	AHRI Chimney Size Vent (Diam.)	Thermal Efficiency			
	Light Oil GPH	Heavy Oil GPH	Gas MBH			Steam (Sq./Ft.)	Steam MBH	Water MBH						Steam		Water	
														Oil	Gas	Oil	Gas
894	17.60	16.65	2540	2040	2052	6,598	1584	1784	60.6	45.40	1,088	.175	14"	82.7%	80.3%	83.2%	80.7%
994	20.00	19.00	2887	2318	2357	7,500	1800	2050	69.3	51.48	1,242	.215	14"	82.8%	80.3%	83.4%	80.9%
1094	22.50	21.50	3247	2607	2656	8,435	2024	2310	78.0	57.56	1,397	.255	16"	82.8%	80.3%	83.6%	81.4%
1194	25.00	24.00	3608	2897	2957	9,375	2249	2571	86.7	63.64	1,555	.295	16"	82.8%	80.3%	83.3%	81.3%
1294	27.50	26.00	3969	3187	3259	10,310	2474	2834	95.3	69.72	1,710	.335	16"	82.8%	80.3%	84.0%	81.5%
1394	30.00	28.50	4330	3481	3562	11,262	2703	3098	104.0	75.80	1,866	.375	18"	82.9%	80.4%	84.2%	81.6%
1494	32.50	31.00	4691	3772	3867	12,201	2928	3362	112.6	81.88	2,020	.415	18"	82.9%	80.4%	84.3%	81.8%
1594	35.00	33.00	5052	4062	4172	13,140	3154	3628	121.6	87.96	2,175	.455	18"	82.9%	80.4%	84.5%	82.0%
1694	37.50	35.55	5412	4351	4478	14,076	3378	3894	130.2	94.04	2,325	.485	18"	82.9%	80.4%	84.7%	82.2%
1794	40.00	38.00	5773	4641	4786	15,015	3604	4162	138.9	100.12	2,480	.525	20"	82.9%	80.4%	84.9%	82.3%
1894	42.50	40.50	6134	4938	5095	15,974	3834	4430	147.6	106.20	2,640	.565	20"	82.9%	80.5%	85.1%	82.5%
1994	45.00	42.50	6495	5228	5404	16,914	4059	4700	156.2	112.28	2,795	.605	20"	83.0%	80.5%	85.3%	82.7%
2094	47.50	45.00	6856	5519	5716	17,854	4285	4970	164.9	118.36	2,945	.650	20"	83.0%	80.5%	85.4%	82.9%
2194	50.00	47.40	7216	5809	6028	18,792	4510	5241	173.6	124.44	3,120	.750	20"	83.0%	80.5%	85.6%	83.1%
2294	53.00	49.80	7649	6157	6404	19,919	4781	5568	182.2	130.52	3,255	.850	22"	83.0%	80.5%	85.5%	83.3%
2394	55.00	52.20	7938	6390	6655	20,672	4961	5787	190.9	136.60	3,410	.950	22"	83.0%	80.5%	86.0%	83.4%
2494	57.50	54.60	8371	6739	7034	21,799	5232	6117	199.6	142.68	3,565	1.050	22"	83.0%	80.5%	86.2%	83.6%
2594	60.00	57.00	8660	6971	7288	22,552	5413	6338	208.2	148.76	3,730	1.150	22"	83.0%	80.5%	86.4%	83.8%

#### NOTES:

Burner input based on maximum of 2,000 feet altitude—for higher altitudes consult Weil-McLain applications engineering department.

No. 2 oil—commercial standard spec. CS75-56. Heat value 140,000 BTU/G.

Consult Weil-McLain applications engineering department for gas pressure required.

Gross AHRI ratings have been determined under the AHRI provision governing forced draft boiler-burner units.

Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pickup. Water ratings are based on a piping and pickup allowance of 1.15. Steam ratings on an allowance of 1.288.

An additional allowance should be made for gravity hot water systems or for unusual piping and pickup loads. Consult Weil-McLain applications engineering department.

Based on average water temperature of 170°F in heat distributing units.

Stack gas volume at outlet temperature.

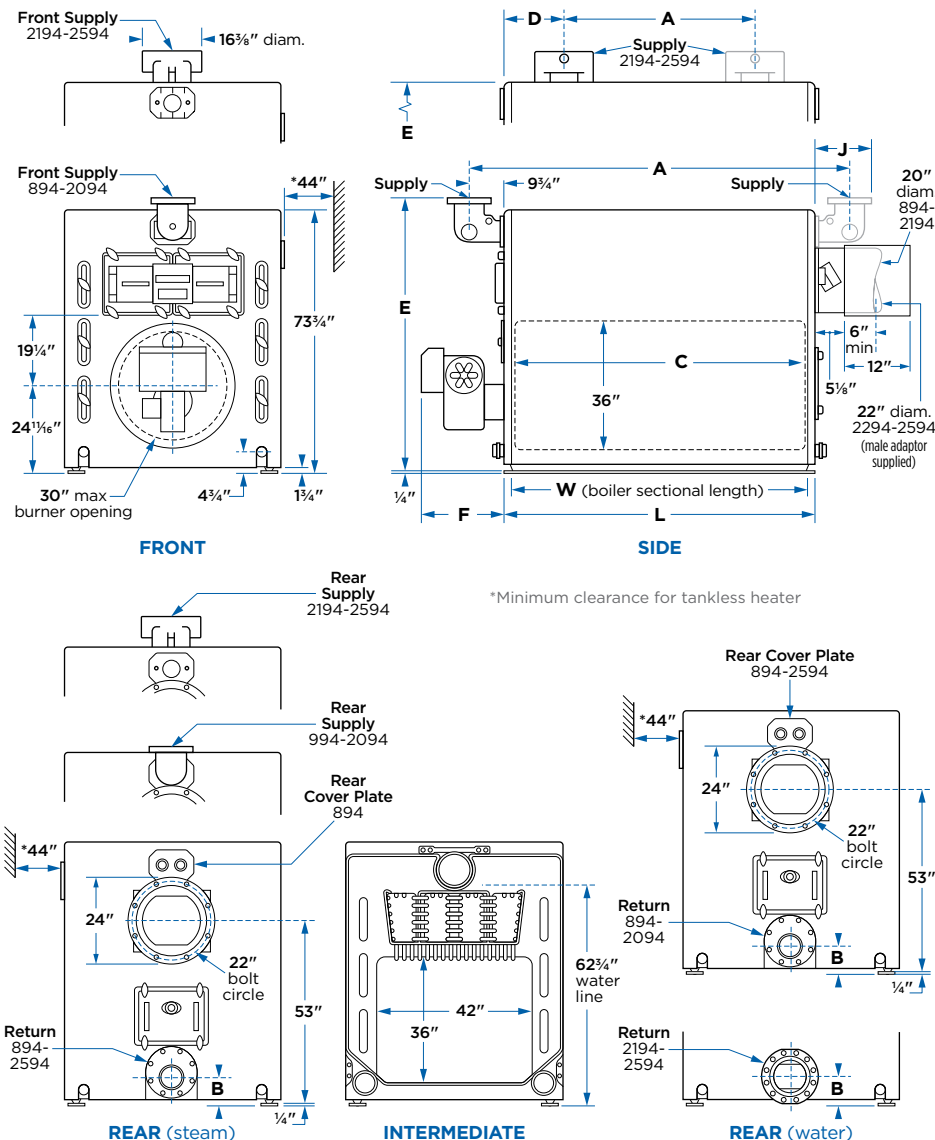
Add .100 to obtain firebox pressure.

†Model Dependent

# DIMENSIONS

Boiler Model	Water		Steam		A	B	C	D		E	F		J	L	W			
	Supply Outlet <sup>1</sup>	Return Inlet Size <sup>1</sup>	Supply Outlet <sup>1</sup>	Return Inlet Size <sup>1</sup>				Water	Steam		Light Oil	Gas & Gas/Oil						
	Qty.	Size	Qty.	Size	Steam Only	Water	Steam	Water	Steam	Light Oil	Gas & Gas/Oil	Steam Only						
894	1	6"	6"	1	8"	6"	—	7 <sup>1</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	45"	—	—	76	29 <sup>1</sup> / <sub>2</sub> "	25"	—	52 <sup>1</sup> / <sub>2</sub> "	51"
994	1	6"	6"	2	8"	6"	77 <sup>5</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	51"	—	—	76	29 <sup>1</sup> / <sub>2</sub> "	25"	16 <sup>3</sup> / <sub>8</sub> "	58 <sup>1</sup> / <sub>2</sub> "	57"
1094	1	6"	6"	2	8"	6"	83 <sup>5</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	57"	—	—	76	21 <sup>1</sup> / <sub>4</sub> "	25"	16 <sup>3</sup> / <sub>8</sub> "	64 <sup>1</sup> / <sub>2</sub> "	63"
1194	1	6"	6"	2	8"	6"	89 <sup>5</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	63"	—	—	76	24 <sup>1</sup> / <sub>16</sub> "	25"	16 <sup>3</sup> / <sub>8</sub> "	70 <sup>1</sup> / <sub>2</sub> "	69"
1294	1	6"	6"	2	8"	6"	95 <sup>5</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	7 <sup>1</sup> / <sub>16</sub> "	69"	—	—	76	24 <sup>1</sup> / <sub>16</sub> "	25"	16 <sup>3</sup> / <sub>8</sub> "	76 <sup>1</sup> / <sub>2</sub> "	75"
1394	1	8"	8"	2	8"	6"	101 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	75"	—	—	76	24 <sup>1</sup> / <sub>16</sub> "	25"	16 <sup>3</sup> / <sub>8</sub> "	82 <sup>1</sup> / <sub>2</sub> "	81"
1494	1	8"	8"	2	8"	6"	107 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	81"	—	—	76	24 <sup>1</sup> / <sub>16</sub> "	30 <sup>1</sup> / <sub>4</sub> "	16 <sup>3</sup> / <sub>8</sub> "	88 <sup>1</sup> / <sub>2</sub> "	87"
1594	1	8"	8"	2	8"	6"	113 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	87"	—	—	76	24 <sup>1</sup> / <sub>16</sub> "	30 <sup>1</sup> / <sub>4</sub> "	16 <sup>3</sup> / <sub>8</sub> "	94 <sup>1</sup> / <sub>2</sub> "	93"
1694	1	8"	8"	2	8"	6"	119 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	93"	—	—	76	24 <sup>1</sup> / <sub>16</sub> "	30 <sup>1</sup> / <sub>4</sub> "	16 <sup>3</sup> / <sub>8</sub> "	100 <sup>1</sup> / <sub>2</sub> "	99"
1794	1	8"	8"	2	8"	6"	125 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	99"	—	—	76	24 <sup>1</sup> / <sub>16</sub> "	30 <sup>1</sup> / <sub>4</sub> "	16 <sup>3</sup> / <sub>8</sub> "	106 <sup>1</sup> / <sub>2</sub> "	105"
1894	1	8"	8"	2	8"	6"	131 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	105"	—	—	76	24 <sup>1</sup> / <sub>16</sub> "	30 <sup>1</sup> / <sub>4</sub> "	16 <sup>3</sup> / <sub>8</sub> "	112 <sup>1</sup> / <sub>2</sub> "	111"
1994	1	8"	8"	2	8"	6"	137 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	111"	—	—	76	30 <sup>3</sup> / <sub>4</sub> "	30 <sup>1</sup> / <sub>4</sub> "	16 <sup>3</sup> / <sub>8</sub> "	118 <sup>1</sup> / <sub>2</sub> "	117"
2094	1	8"	8"	2	8"	6"	143 <sup>5</sup> / <sub>16</sub> "	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	117"	—	—	76	30 <sup>3</sup> / <sub>4</sub> "	30 <sup>1</sup> / <sub>4</sub> "	16 <sup>3</sup> / <sub>8</sub> "	124 <sup>1</sup> / <sub>2</sub> "	123"
2194	1	10"	10"	2	10"	6"	72"	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	123"	17 <sup>1</sup> / <sub>4</sub> "	21 <sup>1</sup> / <sub>4</sub> "	82 <sup>1</sup> / <sub>2</sub> "	30 <sup>3</sup> / <sub>4</sub> "	30 <sup>1</sup> / <sub>4</sub> "	—	130 <sup>1</sup> / <sub>2</sub> "	129"
2294	1	10"	10"	2	10"	6"	78"	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	129"	17 <sup>1</sup> / <sub>4</sub> "	21 <sup>1</sup> / <sub>4</sub> "	82 <sup>1</sup> / <sub>2</sub> "	30 <sup>3</sup> / <sub>4</sub> "	30 <sup>1</sup> / <sub>4</sub> "	—	136 <sup>1</sup> / <sub>2</sub> "	135"
2394	1	10"	10"	2	10"	6"	84"	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	135"	17 <sup>1</sup> / <sub>4</sub> "	21 <sup>1</sup> / <sub>4</sub> "	82 <sup>1</sup> / <sub>2</sub> "	37 <sup>3</sup> / <sub>4</sub> "	37 <sup>3</sup> / <sub>4</sub> "	—	142 <sup>1</sup> / <sub>2</sub> "	141"
2494	1	10"	10"	2	10"	6"	90"	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	141"	17 <sup>1</sup> / <sub>4</sub> "	21 <sup>1</sup> / <sub>4</sub> "	82 <sup>1</sup> / <sub>2</sub> "	37 <sup>3</sup> / <sub>4</sub> "	37 <sup>3</sup> / <sub>4</sub> "	—	148 <sup>1</sup> / <sub>2</sub> "	147"
2594	1	10"	10"	2	10"	6"	96"	8 <sup>3</sup> / <sub>8</sub> "	7 <sup>1</sup> / <sub>16</sub> "	147"	17 <sup>1</sup> / <sub>4</sub> "	21 <sup>1</sup> / <sub>4</sub> "	82 <sup>1</sup> / <sub>2</sub> "	37 <sup>3</sup> / <sub>4</sub> "	37 <sup>3</sup> / <sub>4</sub> "	—	154 <sup>1</sup> / <sub>2</sub> "	153"

<sup>1</sup>All 6" supply outlets are tapped. All 8" and 10" supply outlets are flanged. 6" return is tapped.



\*Minimum clearance for tankless heater

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

# STANDARD EQUIPMENT:

## ALL BOILERS

- Insulated flush jacket
- Flue collar with built-in breaching damper
- Front cleanout doors and wing nuts
- Front cleanout plates and wing nuts
- Back access door
- Flue brushes and handles
- Two close nipples and caps for washout tappings on front section
- Supply elbow(s) or top outlet(s)

## WATER BOILERS

- ASME safety relief valve
- Combination high-limit and low limit control
- Combination pressure-temperatures

## STEAM BOILERS

- ASME side outlet safety valve
- Low-limit and high limit pressure controls
- 4.2" steam pressure gauge
- Siphon
- Gauge glass
- Gauge cocks

## OPTIONAL EQUIPMENT

- Factory assembled sections (894-2194 only)
- Fire-tested package units
- Burner controls
- Water level controls and low water cutoffs
- Barometric damper
- 1.2" side inspection openings with plugs
- 80 PSI working pressure
- Manometer
- Tankless heater(s)
- Flame retention gas, oil, or gas/oil burner
- Burner manufacturers: Powerflame, Reillo & Webster
- Burner fire options: On-off, low-high-off, low-high-low or modulation
- Burner Fuel: natural gas, LP gas, oil, or combination burners such as: gas-oil

## LIMITED TRANSFERABLE WARRANTY:

- Residential: 10 Years Heat Exchanger; 1 Year Parts
- Commercial: 10 Years Heat Exchanger; 1 Year Parts



# INDIRECT-FIRED WATER HEATERS AND CONTROLS



**Aqua Plus®**  
Indirect-Fired Stainless Steel  
Water Heaters



**Aqua Pro™**  
Indirect-Fired Non-Metallic/Composite  
Water Heaters



**BCP, BMC, and BSC**  
Boiler Control Panels

## INDIRECT-FIRED WATER HEATERS

# Aqua Plus

- 316L stainless steel tank
- High output heat exchanger
- Advanced digital control

**FEATURES:**

- Temperature and pressure relief valve standard equipment
- 316L stainless steel tank welded with "tig and plasma" technology
  - Higher tolerance against corrosion vs. carbon steel tanks
  - 100% air pressure/water testing of tank and coil
- High output over 1" diameter 316L stainless steel heat exchanger
  - Superior 1<sup>st</sup> hour rating and recovery
  - Large diameter heat exchanger allows for low pressure drop
- All connections including boiler supply and return, and domestic water are on the side of the tank
  - All connections come with plastic grommets for cleaner inspection of tappings
- Exceptional "R" value with two inches of dense foam insulation
  - CFC-free and environmentally safe
  - Low off cycle losses
- Adjustable feet for uneven floors
- Digital controller ensures precise accuracy for optimal performance
- Control probe already installed for quick and easy wiring
- Fully passivated to protect against corrosive water conditions
- Family of products with five different sizes to choose from
  - Available in sizes: 35, 45, 55, 85, 105





## SPECIFICATIONS

RATINGS (WITH 50°F DOMESTIC WATER INLET AND STATED OTHER CONDITIONS)									
Aqua Plus® Model	200°F Boiler Water			190°F Boiler Water			180°F Boiler Water		
	Boiler Out MBH	115°F DHW GPH	140°F DHW GPH	Boiler Out MBH	115°F DHW GPH	140°F DHW GPH	Boiler Out MBH	115°F DHW GPH	140°F DHW GPH
35	170	337	223	170	311	202	150	284	181
45	190	363	243	170	335	222	150	307	200
55	210	443	302	190	411	278	190	378	252
85	300	551	374	250	511	343	250	470	310
105	350	715	483	350	662	442	300	608	400

## DATA

	35	45	55	85	105
DHW Side Storage (gal.)	29.7	39.9	54.1	81.6	110.9
Boiler Side Storage (gal.)	1.7	1.9	2.2	2.7	3.9
Recommended Flow Rates (GPM)	8	8	8	14	14
Head Loss-Boiler Side (ft.)	1.6	1.6	1.6	5.4	7.1
Working Pressure (Tank) (psi)	150 (maximum)				
Working Pressure (Coil) (psi)	145 (maximum)				
DHW Operating Temp (°F)	50°F-160°F, Adjustable to 180°F				
Approx. Shipping Weight (lbs)	94	111	122	223	238

## DIMENSIONS

Dimensions (inches)	35	45	55	85	105
A	36 <sup>3</sup> / <sub>8</sub>	46 <sup>1</sup> / <sub>4</sub>	60	59 <sup>1</sup> / <sub>2</sub>	59 <sup>3</sup> / <sub>4</sub>
B	7 <sup>7</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	10 <sup>3</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>4</sub>
C	24	26	29 <sup>7</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>4</sub>	41 <sup>1</sup> / <sub>8</sub>
D	21 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	26	30
E	7 <sup>3</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>	9 <sup>7</sup> / <sub>8</sub>
F	28	37 <sup>7</sup> / <sub>8</sub>	51 <sup>3</sup> / <sub>8</sub>	50 <sup>3</sup> / <sub>8</sub>	48 <sup>3</sup> / <sub>8</sub>
DHW In/Out	¾ in NPT			1 in NPT	
Boiler Water In/Out	1 in NPT			1 in NPT*	

\*1¼ piping required



## STANDARD EQUIPMENT:

- 316L welded stainless steel tank
- 316L stainless steel coil over one inch in diameter
- 2" thick CFC-free foam insulation
- 150 PSI T&P relief valve included
- Digital control residential/commercial capable
- Poly resin top and bottom caps
- Leveling legs

## LIMITED WARRANTY:

- Residential: 12 Years Tank; 2 Years Parts
- Commercial: 7 Years Tank; 1 Year Parts

### LOW LEAD CONTENT

In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.

INDIRECT-FIRED WATER HEATERS

# Aqua Pro




The new non-metallic Aqua Pro is the right choice to stand up to corrosion.

The Aqua Pro composite tank construction is ideal for all types of water conditions — especially the harshest environments. Check out these additional design features:

- Lightweight, easily maneuvered non-metallic tank
- Available in four sizes: 30, 55, 80, and 119 gallons
- No anode to check, no annual maintenance
- Convenient top connections
- Seamless tank construction, no welds
- Digital temperature control
- Removable copper finned high-output coil
- Durable brass drain valve
- Low heat loss, 2" foam insulation

Leverage the power and efficiency of your boiler for domestic hot water with the new Aqua Pro indirect-fired water heater. Flexible to fit a broad range of applications, it's designed to install easily into any system.



Aqua Pro Specs				
	30 Gallon	55 Gallon	80 Gallon	119 Gallon
<b>Ratings</b>				
1 <sup>st</sup> Hour Rating (GPH)	199	217	381	477
Continuous Draw Rating (GPH)	177	177	315	381
Standby Heat Loss (F/HR)	.8	.6	.4	.4
Minimum Heat Output Rate (MBH)	115	115	199	244
<b>Dimensions</b>				
Height to Fitting (in)	40 ½"	41"	53 ½"	74"
Overall Diameter (in)	22 ¾"	28"	28"	28"
Inner Tank Diameter (in)	18"	24"	24"	24"
Approx. Shipping Weight (lbs)	70	95	125	155
Pipe Sizes (MNPT) — All Top Connections	¾"	¾"	DHW 1 ½" Boiler 1"	DHW 1 ½" Boiler 1"

**Limited Warranty:**

Residential: 12 Years Tank; 2 Years Parts  
 Commercial: 10 Years Tank; 1 Year Parts



### **BCP-3:**

- User friendly alpha-numeric display
- Includes DHW pump relay output

### **BCP-8 (WATER OR STEAM):**

- User friendly alpha-numeric display
- Addition of extension modules allows for up to 24 stages

### **BMC (WATER ONLY):**

- Controls up to four modulation water boilers
- Alpha-numeric display makes it easy to use
- Outdoor reset capability

### **BSC (WATER AND STEAM):**

- Controls up to four modulation water or steam boilers
- BACnet capability

# SPECIFICATIONS

		STAGING CONTROLS				MODULATION CONTROLS				
		BCP-3	BCP-8W	BCP-8S	BCP-8X Staging Extension Module	BMC	BMC-6X BMS	BSC	BSCNET	BSC Modulation Extension Module
Product										
Stages Available	Stand Alone Control Max Number Stages	3	8	8	8	4	6	4	4	8
	Accepts Extension Module	No	Yes	Yes	N/A	Yes	N/A	Yes	Yes	N/A
	Number Extension Modules Capable for Each Control	N/A	2	2	N/A	2	N/A	2	2	N/A
Boiler/Burner Control Outputs	Staging Burners	■	■	■	■					
	135 ohm Modulation Burners (Optional)							■	■	■
	Current Voltage Modulation Burners					■	■	■	■	■
System Control	Set Point Water	■	■		N/A	■	N/A	■	■	N/A
	Hot Water Rest	■	■		N/A	■	N/A	■	■	N/A
	Set Point Steam			■	N/A		N/A	■	■	N/A
Sensors Included	Outdoor Sensor	■	■	■	N/A	■	N/A			
	Heating System Sensor	■	■	■	N/A	■	N/A			
	Sensors Purchased Separately				N/A			■	■	N/A
Remote Communication Choices Included	Enable/Disable or TSTAT	■	■	■	N/A	■	N/A	■	■	N/A
	4-20 Remote Set Point Input				N/A		N/A	■	■	N/A
	BACnet Communications				N/A		N/A	■		N/A
Remote Communication Optional Accessories	4-20 Remote Set Point Input (420 MOD Module)		■	■	N/A	■	N/A			N/A
	Outdoor Cut Off	■	■	■	N/A	■	N/A	■	■	N/A
	Reset Ratio	■	■		N/A	■	N/A	■		N/A
	Offset	■	■		N/A	■	N/A	■		N/A
	Purge Delay	■	■	■	N/A	■	N/A	■	■	N/A
	Min. System Temperature	■	■		N/A	■	N/A	■		N/A
	Max. System Temperature	■	■		N/A	■	N/A	■		N/A
	Last Stage Hold	■	■	■	N/A	■	N/A	■	■	N/A
	Minimum Run Time	■	■	■	N/A	■	N/A	■	■	N/A
	Adjustable Lead Stage Rotation	■	■	■	N/A	■	N/A	■	■	N/A
	System Pump/Relay Run On	■	■	■	N/A	■	N/A	■	■	N/A
	DHW Priority	■	■	■	N/A	■	N/A	■	■	N/A
	DHW Pump Relay Output	■*	■	■	N/A	■*	N/A	■	■	N/A
	Optional DHW Temperature Sensor Input		■	■	N/A		N/A	■	■	N/A
	Integral Night Setback		■	■	N/A		N/A	■	■	N/A
	Boost				N/A		N/A			N/A
	External Night Setback Input	■	■	■	N/A	■	N/A	■	■	N/A
Staging Boiler Specific Software Option	Multi. Stage Options (On/Off, Lo/Hi, 3 Stage, 4 Stage)		■	■	N/A		N/A	■		N/A
	Lo-Lo/Lo-Hi Options		■	■	N/A		N/A	■	■	N/A
	OSS Software (Assists If Staging Boilers Are Oversized)		■	■	N/A		N/A	■	■	N/A
Modulation Boiler Specific Software Options	Adj. Ignition Start Point				N/A		N/A			N/A
	Adj. Modulation Start Point				N/A		N/A			N/A
	Parallel Modulation Option				N/A		N/A			N/A
	Process Software Option				N/A		N/A			N/A
	Boiler Lockout Inputs				N/A		N/A			N/A

\*Only on single boiler mode

# STANDARD EQUIPMENT:

## BCP-3

- User-friendly alpha-numeric display
- Includes DHW pump relay output and priority
- Outdoor and heating system sensors
- Maximum and minimum system temperature
- External night setback input
- Reset ratio
- Adjustable lead stage rotation

## BCP-8

- Available for water (BCP-8W) or steam (BCP-8S)
- Addition of extension modules (BCP-8X) allows for up to 24 stages
- Outdoor and heating system sensors
- Outdoor cut off
- Purge delay
- DHW pump relay output and optional temp sensor input
- Integral night setback and external night setback input

## BMC (WATER ONLY)

- Controls up to four modulating water boilers
- Alpha-numeric display makes it easy to use
- Outdoor reset capability
- Modulation extension module available (BMC-6X BMS)
- Current voltage modulation burner control outputs
- Adjustable lead stage rotation
- Adjustable ignition start point
- Adjustable modulation start point
- Parallel modulation option

## BSC (WATER AND STEAM)

- Controls up to four modulating water or steam boilers
- BACnet capability
- Extension modules (BSC Modulation Extension module) for up to an additional 16 stages
- 4-20 Remote set point input
- Process software option
- Boiler lockout inputs
- See spec sheet for a complete list of features



# Contractors report up to a 50% increase in sales<sup>1</sup> with financing offers from the GreenSky<sup>®</sup> Loan Program<sup>2</sup>

Weil-McLain has teamed up with the GreenSky<sup>®</sup> Loan Program, a leader in home improvement financing, to help you close more sales and grow your business. Thousands of U.S. contractors trust GreenSky to increase their customers' buying power and get paid faster.

## Work can be performed anywhere<sup>3</sup>

Customers can finance projects wherever they need work to be done.

- *Primary Residence*
- *Rental Property*
- *Vacation Home*
- *Anywhere Else!*

## Apply Now to Get Started Today

[greensky.com/sponsor/weilmclain](https://greensky.com/sponsor/weilmclain)

844.227.9555

Use Sponsor Number: 750

## CLOSE MORE SALES



- Deferred Interest plans<sup>4</sup>
- Credit limits up to \$55,000<sup>5</sup>
- High approval rates<sup>5</sup>

## GET PAID FASTER<sup>6</sup>



- Immediate funding upon authorization
- No paperwork, completion certificates or sales contracts required

## DELIGHT YOUR CUSTOMERS



- Paperless application process<sup>6</sup>
- Decisions in seconds
- GPS-enabled mobile app

<sup>1</sup>Based on GreenSky<sup>®</sup> Program internal analytics. <sup>2</sup>GreenSky<sup>®</sup> is a loan program name for certain consumer credit plans extended by participating lenders to borrowers for the purchase of goods and/or services from participating merchants/providers. Participating lenders are federally insured, federal and state chartered financial institutions providing credit without regard to age, race, color, religion, national origin, gender or familial status. GreenSky<sup>®</sup> is a registered trademark of GreenSky, LLC. GreenSky, LLC and its wholly-owned subsidiaries service the loans on behalf of participating lenders. <sup>3</sup>Loans are for personal, family, and household use. <sup>4</sup>Subject to credit approval. Interest is billed during the promotional period but all interest is waived if the entire loan amount is paid in full before the end of the promotional period. <sup>5</sup>Fixed APR during the life of the loan. Subject to credit approval. <sup>6</sup>See Operating Instructions at [greensky.com/merchantagreement](https://greensky.com/merchantagreement). GreenSky NMLS #1416362

## Heat up Your Sales With Weil-McLain Financial Services



Weil-McLain Financial Services powered by LEAF helps close more commercial heating project sales, increase average ticket size and boost profits. Here's how to offer Weil-McLain Financial Services powered by LEAF to your customers and what to expect throughout the quick and easy financing process.

### Finance Commercial Heating Projects in Four Easy Steps ↓



For any questions, contact us today. ↓

**[www.leafnow.com/weil-mclain](http://www.leafnow.com/weil-mclain)**

LEAF Commercial Capital, Inc. is a subsidiary of People's United Bank, N.A.

Terms and Conditions: LEAF finances equipment only for business purposes and not for personal, family or household use. All applications are subject to credit approval. Void where prohibited.

# Warranty Submission Process



When a potential Warranty Claim arises please call the Warranty Call Center

**It's as Easy as 1-2-3...**

- 1) Please have the following information ready:
  - **CP# (serial number of unit)**
  - **Model name/number**
  - **Installation date**
  - **Homeowner: name, address, phone number**
  - **Explanation of defect and part to be replaced**
  - **Photo(s) of defect and other information may be required**
- 2) Contact Weil-McLain Support Services at 800-654-2109.
- 3) Upon approval of claim, return the defective part(s) to your local Weil-McLain distributor for a new unit/part or credit.

**WM Support Services**  
**800-654-2109**

The warranty procedure helps expedite claims and reduce the processing time. The homeowner or building owner can be satisfied in a prompt efficient manner.

For any technical support or troubleshooting questions, please contact Weil-McLain Support Services at 800-654-2109.

Please contact your local Weil-McLain Distributor or Weil-McLain Warranty Call Center with any questions regarding this procedure.

*If you do not know your Weil-McLain Distributor, the Warranty Specialist will help recommend one. This procedure will not apply to CornerStone United claims. CornerStone United claims should still be directed to 1-800-824-5090.*







## Better than Ever Boiler Bucks



### NEW DESKTOP SITE

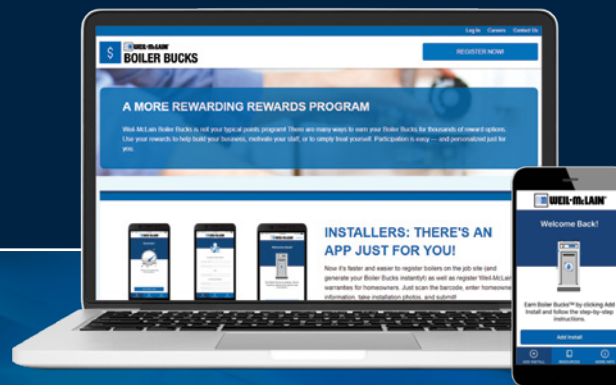
Redesigned to make registrations and redemptions easier than ever, the Boiler Bucks website is your one-stop-shop to register boilers and start earning rewards. Check it out at [WMB BoilerBucks.com](http://WMB BoilerBucks.com).

### NEW MOBILE APP

Designed to support installers and service techs by providing fast, easy boiler registrations as well as onsite access to product and technical manuals, the new mobile app makes installation and registration a breeze.

### NEW REWARDS

Boiler Bucks features over 450,000 reward options for contractors. Treat yourself, your team or your customers to the top brands in work apparel, sporting goods and electronics!



Boiler Bucks customer service representatives are available at 855-910-8223

**ENROLL TODAY!**  
[WMB BoilerBucks.com](http://WMB BoilerBucks.com)

# Condensing Gas Boilers



**EVERGREEN**  
Water  
Natural or Propane Gas  
Direct Exhaust or Direct Vent  
Floor Mount or Wall Mount  
70-399 MBH  
Up to 95.2% AFUE†



**WM97+**  
Water  
Natural or Propane Gas  
Direct Exhaust or Direct Vent  
Floor Mount or Opt. Floor Stand  
110-155 MBH  
Up to 95.1% AFUE†



**AQUABALANCE**  
Water, Combi and Heat Only  
Natural or Propane Gas  
Direct Exhaust or Direct Vent  
Wall Mount  
80-155 MBH  
95% AFUE



**SVF 750-1100**  
Water  
Natural Gas or Propane  
750-1100 MBH  
Up to 97.1% Thermal Efficiency\*



**SLIMFIT 550-750**  
Water  
Natural Gas or Propane  
550-750 MBH  
Up to 93.9% Thermal Efficiency\*



**ULTRA**  
Water  
Natural or Propane Gas  
Direct Exhaust or Direct Vent  
Floor Mount or Wall Mount  
80-399 MBH  
Up to 94.1% AFUE†



**ECO**  
Water  
Natural or Propane Gas  
Direct Exhaust or Direct Vent  
Floor Mount or Opt. Floor Stand  
110-155 MBH  
Up to 95.1% AFUE†



**GV90+**  
Water  
Natural or Propane Gas  
Direct Exhaust or Direct Vent  
70-175 MBH  
Up to 91.9% AFUE†



**SVF 1500-3000**  
Water  
Natural Gas or Propane  
1500-3000 MBH  
Up to 96.8% Thermal Efficiency\*



**SLIMFIT 1000-2000**  
Water  
Natural Gas or Propane  
1000-2000 MBH  
Up to 93.9% Thermal Efficiency\*



# Cast Iron Boilers



**CGi**  
Water  
Natural or Propane Gas  
Induced Draft  
50-233 MBH  
Up to 95.1% AFUE†

**CGt**  
Water  
Natural or Propane Gas  
With Tankless Heater  
Induced Draft  
133 MBH  
82.1% AFUE

**ULTRA OIL**  
Water  
Oil  
Chimney or Direct Vent  
98-172 MBH  
87% AFUE



**WTGO**  
Water  
With Tankless Heater  
Oil  
Chimney Vent  
98-357 MBH  
Up to 87% AFUE†



**EGH**  
Steam  
Gas  
315-495 MBH  
Up to 82.5% Thermal Efficiency\*

**80 SERIES**  
Water or Steam  
Gas, Oil, or Oil and Gas  
346-1674 MBH  
Up to 83.2% Thermal Efficiency\*

**94 SERIES**  
Water or Steam  
Gas, Oil, or Oil and Gas  
2540-8660 MBH  
Up to 86.4% Thermal Efficiency\*

**CGa**  
Water  
Natural or Propane Gas  
Atmospheric/ Natural Draft  
52-245 MBH  
Up to 84% AFUE†

**EG**  
Water or Steam  
Natural Gas  
Natural Draft  
75-299 MBH  
Up to 84.3% AFUE†

**WGO**  
Water  
Without Tankless Heater  
Oil  
Chimney Vent  
98-357 MBH  
Up to 87% AFUE†



**SGO**  
Steam  
With Tankless Heater Option  
Oil  
Chimney Vent  
133-357 MBH  
Up to 84% AFUE†

**LGB**  
Water or Steam  
Gas  
400-2860 MBH  
Up to 82.8% Thermal Efficiency\*

**88 SERIES**  
Water or Steam  
Gas, Oil, or Oil and Gas  
980-5845 MBH  
Up to 85.7% Thermal Efficiency\*

# Indirect-Fired Water Heaters and Accessories



**AQUA PLUS**  
Stainless Steel  
5 Tank Sizes: 35-105 gal.

**AQUA PRO**  
Non-Metallic/ Composite Tank  
4 Tank Sizes: 30-119 gal.

**AQUALOGIC**  
Exclusively for the  
WM97+ Boilers

**SYSTEM CONTROLS**  
BCP, BMC, and BSC  
Boiler Control Panels

**FINNED-TUBE AND  
CAST IRON BASEBOARDS**

**SWIMMING POOL  
HEAT EXCHANGERS**

**WMBP, WMB**  
Brazed Plate Heat Exchangers  
Forced Air Heat Exchangers

†Model Dependent

\*See product page for ENERGY STAR® qualifications

Contact your local Weil-McLain Sales Office for more information

**New England**  
250 Richmond St.  
Raynham, MA 02767  
T: 508.822.3939  
F: 508.822.0553

**Mid-Atlantic**  
17000 Commerce Parkway - Suite B  
Mount Laurel, NJ 08054  
T: 856.866.7400  
F: 856.866.8828

**Central and Western**  
999 McClintock Dr. - Suite 200  
Burr Ridge, IL 60527  
T: 630.560.3738  
F: 855.248.2777  
Toll Free: 800.854.5482

**Administrative Office**  
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Burr Ridge, IL 60527  
T: 630.560.3700  
F: 630.560.3769