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

### 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

### GV90+: Longevity and high efficiency
- Fastest, easiest and cleanest installation
- 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.
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<td>Gas</td>
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<td>Oil</td>
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<td>Ultra&lt;sup&gt;™&lt;/sup&gt; 230–399</td>
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<td>Gas</td>
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<td>Gas</td>
<td>Aluminum</td>
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<td>SlimFit&lt;sup&gt;™&lt;/sup&gt; 1000–2000</td>
<td>Water</td>
<td>Gas</td>
<td>Aluminum</td>
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<td>Steam</td>
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<td>LGB</td>
<td>Water or Steam</td>
<td>Gas</td>
<td>Atmospheric</td>
</tr>
<tr>
<td>80 Series</td>
<td>Water or Steam</td>
<td>Gas, Oil or Oil &amp; Gas</td>
<td>Cast Iron</td>
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<tr>
<td>88 Series</td>
<td>Water or Steam</td>
<td>Gas, Oil or Oil &amp; Gas</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>94 Series</td>
<td>Water or Steam</td>
<td>Gas, Oil or Oil &amp; Gas</td>
<td>Cast Iron</td>
</tr>
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RESIDENTIAL HIGH-EFFICIENCY CONDENSING GAS BOILERS

- **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
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EVG 70</th>
<th>EVG 110</th>
<th>EVG 155</th>
<th>EVG 220</th>
<th>EVG 299</th>
<th>EVG 399</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSA INPUT (MBH)</td>
<td>70</td>
<td>110</td>
<td>155</td>
<td>220</td>
<td>299</td>
<td>399</td>
</tr>
<tr>
<td>DOE HEATING CAPACITY (MBH)</td>
<td>65</td>
<td>101</td>
<td>143</td>
<td>206</td>
<td>280</td>
<td>383*</td>
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<tr>
<td>NET AHRI (MBH)</td>
<td>57</td>
<td>88</td>
<td>124</td>
<td>179</td>
<td>243</td>
<td>333</td>
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<tr>
<td>AFUE</td>
<td>95.2%</td>
<td>95.0%</td>
<td>95.1%</td>
<td>95.0%</td>
<td>95.0%</td>
<td>96.5%*</td>
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</table>

**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”
- 1¼”
- 1½”
- 1½”

**GAS CONNECTION SIZE**

- ½”
- ½”
- ½”
- ½”
- ½”
- ½”

**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**

- 12½”
- 6½”
- 22¾”
- 23”
- 14¾”
- 45”
- 1¼”
- 12⅛”
- 220 = 18¾”
- 299/399 = 20¾”
- 8” ¾”
- 9⅝”
- 4⅛”
- 8/one.num/five.num⁄/one.den/six.den
- 43/one.num⁄/one.den/six.den
- 16/five.num⁄/one.den/six.den
- 1”
- ⅜”

**MODEL 220–399**

- 12⅛”
- 40¾”
- 17”
- 5⅜”
- 10⅛”
- 18¾”
- 5¾”6/one.num⁄/eight.den
- 19/one.num⁄/eight.den
- 18/five.num⁄/eight.den
- 1”
- ⅜”

**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

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.
The new Ultra Series 4 features a nano-coated heat exchanger to maximize efficiency and service life.
In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

### DIMENSIONS

<table>
<thead>
<tr>
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<th>Ultra 80</th>
<th>Ultra 105</th>
<th>Ultra 155</th>
<th>Ultra 230</th>
<th>Ultra 299</th>
<th>Ultra 399</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Recommended Pipe Size</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1¼&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
</tr>
<tr>
<td>Supply Tappings</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1¼&quot;</td>
<td>1¼&quot;</td>
</tr>
<tr>
<td>Return Tappings</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1¼&quot;</td>
<td>1¼&quot;</td>
</tr>
<tr>
<td>Gas Connection Size</td>
<td>½&quot;</td>
<td>½&quot;</td>
<td>½&quot;</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
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### SPECIFICATIONS

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

### DATA

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<th></th>
<th>Ultra 80</th>
<th>Ultra 105</th>
<th>Ultra 155</th>
<th>Ultra 230</th>
<th>Ultra 299</th>
<th>Ultra 399</th>
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</thead>
<tbody>
<tr>
<td>Vent Size</td>
<td>2&quot; or 3&quot;</td>
<td>2&quot; or 3&quot;</td>
<td>3&quot;</td>
<td>3&quot; or 4&quot;</td>
<td>4&quot;</td>
<td>4&quot;</td>
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<tr>
<td>Vent Material</td>
<td>PVC/CPVC/PP</td>
<td>PVC/CPVC/PP</td>
<td>PVC/CPVC/PP</td>
<td>PVC/CPVC/PP</td>
<td>PVC/CPVC/PP</td>
<td>PVC/CPVC/PP</td>
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<tr>
<td>Combustion Air Size</td>
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<td>2&quot; or 3&quot;</td>
<td>3&quot;</td>
<td>3&quot; or 4&quot;</td>
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<tr>
<td>Water Volume</td>
<td>.69 Gal.</td>
<td>.82 Gal.</td>
<td>1.17 Gal.</td>
<td>1.57 Gal.</td>
<td>2.1 Gal.</td>
<td>2.1 Gal.</td>
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<tr>
<td>Approx. Shipping Weight</td>
<td>199 Lbs.</td>
<td>207 Lbs.</td>
<td>234 Lbs.</td>
<td>246 Lbs.</td>
<td>297 Lbs.</td>
<td>297 Lbs.</td>
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</table>

### 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" & 1¼" Flanges (155 & 230) Taco 0014
- 1½" & 1½" Flanges (299) Taco 0014
- 1¼" & 1½" 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
AquaLogic® MATCH WITH THE WM97+ COMPANION WATER HEATER for space saving endless hot water
In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

### SPECIFICATIONS

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<th>Return Tapping (In.)</th>
<th>Gas Connection Size (In.)</th>
<th>Minimum Recommended Pipe Size (In.)</th>
<th>Approx. Shipping Weight (Lbs.)</th>
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<td>WM97+ 110 CT</td>
<td>1</td>
<td>1</td>
<td>½</td>
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<td>136</td>
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<tr>
<td>WM97+ 155 CT</td>
<td>1¼</td>
<td>1¼</td>
<td>½</td>
<td>1¼</td>
<td>162</td>
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</tbody>
</table>

1Natural gas field convertible to LP as standard equipment
2Requires Centrotherm SS concentric termination

### DIMENSIONS

**TOP (110)**
- 12⅛”
- 10¼”
- 2⅜”
- 2⅛”
- 3⅛”
- 4⅛”

**BOTTOM (110)**
- 10½”
- 4⅛”
- 4⅛”
- 4⅛”
- 12¼”

**FRONT**
- 19”
- 19½”
- 3⅛”
- 3⅛”
- 32¼”

**RIGHT**
- 35½”
- 11⅞”
- 10½”
- 10¾”
- 13”

### MULTIPLE VENTING OPTIONS

- Sidewall direct vent
- Through-the roof direct vent
- Dual pressure zones
- Direct exhaust

### 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
- 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

- 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

1Model only
2Circulator supplied with boiler cannot be removed and cannot be used as a zone circulator in multiple zone systems
Durable stainless steel firetube heat exchanger.
Streamlined design configurable for installation.
**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

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Input MBH</th>
<th>DOE Heating Capacity MBH</th>
<th>Net AHRI Water Ratings MBH</th>
<th>AFUE</th>
<th>Vent Diameter (In.)</th>
<th>Vent Material</th>
<th>Boiler Water Content (gal.)</th>
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</thead>
<tbody>
<tr>
<td>ECO 110</td>
<td>110</td>
<td>22</td>
<td>101</td>
<td>88</td>
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<td>PVC, CPVC, PP, SS</td>
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<td>ECO 155</td>
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<td>28</td>
<td>143</td>
<td>124</td>
<td>95.1%</td>
<td>PVC, CPVC, PP, SS</td>
<td>3.2</td>
</tr>
</tbody>
</table>

*Natural gas field convertible to LP as standard equipment

**MULTIPLE VENTING OPTIONS**

- Sidewall direct vent
- Through-the roof direct vent
- Dual pressure zones
- Direct exhaust

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

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

**Input MBH | AHRI Certified Ratings**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max.</th>
<th>Min.</th>
<th>DOE heating capacity MBH²</th>
<th>AFUE</th>
<th>Net water rating MBH³</th>
<th>Vent/air pipe size (Inches)⁴</th>
<th>Vent material</th>
<th>Boiler water content (Gallons)</th>
<th>Approx. shipping weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB-80</td>
<td>80</td>
<td>8</td>
<td>75</td>
<td>95.0%</td>
<td>65</td>
<td>2 or 3</td>
<td>PVC, CPVC, PP, SS</td>
<td>1.03</td>
<td>64</td>
</tr>
<tr>
<td>AB-120</td>
<td>120</td>
<td>12</td>
<td>112</td>
<td>95.0%</td>
<td>97</td>
<td>2 or 3</td>
<td>PVC, CPVC, PP, SS</td>
<td>1.23</td>
<td>67</td>
</tr>
<tr>
<td>AB-155</td>
<td>155</td>
<td>15.5</td>
<td>144</td>
<td>95.0%</td>
<td>125</td>
<td>2 or 3</td>
<td>PVC, CPVC, PP, SS</td>
<td>1.23</td>
<td>67</td>
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<tr>
<td>AB-80C</td>
<td>80</td>
<td>8</td>
<td>75</td>
<td>95.0%</td>
<td>65</td>
<td>2 or 3</td>
<td>PVC, CPVC, PP, SS</td>
<td>1.11</td>
<td>77</td>
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<tr>
<td>AB-120C</td>
<td>120</td>
<td>12</td>
<td>112</td>
<td>95.0%</td>
<td>97</td>
<td>2 or 3</td>
<td>PVC, CPVC, PP, SS</td>
<td>1.31</td>
<td>80</td>
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<tr>
<td>AB-155C</td>
<td>155</td>
<td>15.5</td>
<td>144</td>
<td>95.0%</td>
<td>125</td>
<td>2 or 3</td>
<td>PVC, CPVC, PP, SS</td>
<td>1.33</td>
<td>87</td>
</tr>
</tbody>
</table>

¹Natural gas field convertible to LP with optional kit.

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

³Net AHRI ratings are based on piping and pick-up load. Ratings are based on normal piping and pick-up load. An additional allowance should be made for unusual piping and pick-up loads.

⁴Boilers must be vented directly to the outdoors. See boiler manuals for details.
LEADING HIGH EFFICIENCY CAST IRON BOILER

GV90+

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

†Model Dependent
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).

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

STANDARD EQUIPMENT:
■ 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

Notes:
1. Based on standard test procedures prescribed by the United States Department of Energy.
2. 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.
3. GV90+ boilers must be vented directly to the outside.

DIMENSIONS

RATINGS

<table>
<thead>
<tr>
<th>Model</th>
<th>Input MBH</th>
<th>DOE Heating Capacity MBH</th>
<th>Net AHRI Rating, Water MBH</th>
<th>AFUE</th>
<th>Vent Diameter</th>
<th>Boiler Water Content (Gal.)</th>
<th>Length</th>
<th>Supply Tapping</th>
<th>Return Tapping</th>
<th>Gas Connection Size</th>
<th>Minimum Recommended Pipe Size</th>
<th>Approx. Shipping Weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GV90+3</td>
<td>70</td>
<td>65</td>
<td>56</td>
<td>91.9%</td>
<td>3&quot;</td>
<td>3.8</td>
<td>30¾&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1½&quot;</td>
<td>1&quot;</td>
<td>313</td>
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<td>GV90+4</td>
<td>105</td>
<td>97</td>
<td>84</td>
<td>91.2%</td>
<td>3&quot;</td>
<td>4.7</td>
<td>30¾&quot;</td>
<td>1&quot;</td>
<td>1½&quot;</td>
<td>1¼&quot;</td>
<td>1&quot;</td>
<td>353</td>
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<td>GV90+5</td>
<td>140</td>
<td>130</td>
<td>113</td>
<td>91.4%</td>
<td>3&quot;</td>
<td>6.0</td>
<td>37¾&quot;</td>
<td>1&quot;</td>
<td>1¼&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
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<td>GV90+6</td>
<td>175</td>
<td>161</td>
<td>140</td>
<td>91.0%</td>
<td>3&quot;</td>
<td>6.9</td>
<td>37¾&quot;</td>
<td>1&quot;</td>
<td>1½&quot;</td>
<td>1¼&quot;</td>
<td>1¼&quot;</td>
<td>464</td>
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</tbody>
</table>

Notes:

- Based on standard test procedures prescribed by the United States Department of Energy.
- 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.
- GV90+ boilers must be vented directly to the outside.

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

APPLICATIONS INCLUDE:
- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating

Inducer cover on sizes 25–5 only

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

1. Add “PIN” for natural gas, “PIL” for propane.
2. Based on standard test procedures prescribed by the United States Department of Energy.
3. 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.
5. CGi boilers are C.S.A. design certified for installation on combustible flooring. Tested for 50 PSI working pressure.

### 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

APPLICATIONS INCLUDE:
- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating

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

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

STANDARD EQUIPMENT:
- 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

*See Chart.
*Based on standard test procedures prescribed by the United States Department of Energy.
*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.

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

2. See Chart.
3. Based on standard test procedures prescribed by the United States Department of Energy.
4. 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.
GOLD SERIES CAST IRON GAS BOILER

Water | Natural or Propane Gas | 133 MBH | 1 size
Induced Draft | 82.1% AFUE

FOR RESIDENTIAL APPLICATIONS
Built-in tankless heater provides a single appliance for space heating and domestic hot water needs
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
- 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 collector 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 (1/2" 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

### RATINGS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CGt-5</td>
<td>133</td>
<td>109</td>
<td>95</td>
<td>82.1%</td>
<td>3.1</td>
<td>3&quot;</td>
<td>5&quot;</td>
</tr>
</tbody>
</table>

*Based on standard test procedures prescribed by the United States Department of Energy.

*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.

*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 1/2" NPT I-W-H intermittent draw rating = 2.6 GPM (40-140°F with 200°F in boiler)

Approximate Shipping Weight 290 Lbs.
EG

CAST IRON GAS BOILER
Water or Steam with Tankless Heater Option | Natural Gas | 75–299 MBH | 8 sizes
Series 5 | Natural Draft | Up to 84.3% AFUE

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

Weil-McLain reserves the right to change specifications without notice.

**RATINGS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply (NPT)</th>
<th>Return (NPT)</th>
<th>D</th>
<th>V</th>
<th>W</th>
<th>Natural</th>
<th>Minimum Recommended Pipe Sizes</th>
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<tbody>
<tr>
<td>EG-30</td>
<td>2-3&quot;</td>
<td>2-2½&quot;</td>
<td>5&quot;</td>
<td>6&quot;</td>
<td>17&quot;</td>
<td>½&quot;</td>
<td>1&quot; 2&quot; 1½&quot;</td>
</tr>
<tr>
<td>EG-35</td>
<td>2-3&quot;</td>
<td>2-2½&quot;</td>
<td>5&quot;</td>
<td>6&quot;</td>
<td>17&quot;</td>
<td>½&quot;</td>
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</tr>
<tr>
<td>EG-40</td>
<td>2-3&quot;</td>
<td>2-2½&quot;</td>
<td>6&quot;</td>
<td>6½&quot;</td>
<td>21½&quot;</td>
<td>½&quot;</td>
<td>1¼&quot; 2½&quot; 1½&quot;</td>
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<td>EG-45</td>
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<td>2-2½&quot;</td>
<td>6&quot;</td>
<td>6½&quot;</td>
<td>21½&quot;</td>
<td>½&quot;</td>
<td>1¼&quot; 2½&quot; 1½&quot;</td>
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<td>7&quot;</td>
<td>9&quot;</td>
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<td>9&quot;</td>
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<td>½&quot;</td>
<td>1¼&quot; 3&quot; 1½&quot;</td>
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<td>EG-65</td>
<td>2-3&quot;</td>
<td>2-2½&quot;</td>
<td>8&quot;</td>
<td>9½&quot;</td>
<td>29½&quot;</td>
<td>¼&quot;</td>
<td>1½&quot; 3&quot; 1½&quot;</td>
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<tr>
<td>EG-75</td>
<td>2-3&quot;</td>
<td>2-2½&quot;</td>
<td>8&quot;</td>
<td>9½&quot;</td>
<td>34&quot;</td>
<td>¾&quot;</td>
<td>2½&quot; 3&quot; 1½&quot;</td>
</tr>
</tbody>
</table>

**STANDARD EQUIPMENT:**

- 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

*Based on standard test procedures prescribed by the United States Department of Energy.

**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 1.33. An additional allowance should be made for unusual piping and pick-up loads.**

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.
HIGH-EFFICIENCY CAST IRON OIL BOILER

Series 3 | Chimney or Direct Vent | 87% AFUE

ULTRA™ OIL

Water | Oil | 112–196 MBH | 4 sizes

Durable 3-pass heat exchanger design.

APPLICATIONS INCLUDE:

■ Residential
■ Light Commercial
■ Multiple Boilers
■ Indirect-fired Water Heating
■ Radiant Heating
In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

### DIMENSIONS

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>UO-3RE</th>
<th>UO-3E</th>
<th>UO-4E</th>
<th>UO-5E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Tapping</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
</tr>
<tr>
<td>Return Tapping</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
</tr>
<tr>
<td>Depth - with Burner (B)</td>
<td>37&quot;</td>
<td>37&quot;</td>
<td>41&quot;</td>
<td>45&quot;</td>
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<tr>
<td>Depth - Boiler</td>
<td>25&quot;</td>
<td>25&quot;</td>
<td>29&quot;</td>
<td>33&quot;</td>
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### DATA

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<thead>
<tr>
<th>DATA</th>
<th>UO-3RE</th>
<th>UO-3E</th>
<th>UO-4E</th>
<th>UO-5E</th>
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<tbody>
<tr>
<td>Chimney Rectangle</td>
<td>8&quot; x 8&quot;</td>
<td>8&quot; x 8&quot;</td>
<td>8&quot; x 8&quot;</td>
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<tr>
<td>Chimney Round</td>
<td>6&quot;</td>
<td>6&quot;</td>
<td>6&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>Chimney Height</td>
<td>15'</td>
<td>15'</td>
<td>15'</td>
<td>15'</td>
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<tr>
<td>Water Volume</td>
<td>15.00 Gal.</td>
<td>15.00 Gal.</td>
<td>18.25 Gal.</td>
<td>21.50 Gal.</td>
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<tr>
<td>Approximate Weight</td>
<td>636 Lbs.</td>
<td>636 Lbs.</td>
<td>737 Lbs.</td>
<td>852 Lbs.</td>
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### RATINGS

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

*The 0.80 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:
- 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
GOLD SERIES CAST IRON OIL BOILER

Water without Tankless Heater | Oil | 98–357 MBH | 8 sizes
Series 3 | Chimney Vent | Up to 87% AFUE†

HIGH EFFICIENCY
CAST IRON BOILER

WGO

APPLICATIONS INCLUDE:

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

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

<table>
<thead>
<tr>
<th>Tapping Location</th>
<th>Size (in.)</th>
<th>Control Tappings</th>
</tr>
</thead>
<tbody>
<tr>
<td>B₃</td>
<td>1½</td>
<td>Alternative return — “A” units only</td>
</tr>
<tr>
<td>E₃</td>
<td>¼</td>
<td>Pressure/temperature gauge</td>
</tr>
<tr>
<td>H</td>
<td>¾</td>
<td>Drain valve</td>
</tr>
<tr>
<td>L</td>
<td>¾</td>
<td>High limit/circulator control</td>
</tr>
<tr>
<td>N</td>
<td>½</td>
<td>Piping to expansion tank or automatic air vent</td>
</tr>
<tr>
<td>R₁</td>
<td>¾</td>
<td>Relief valve</td>
</tr>
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</table>

### RATINGS

<table>
<thead>
<tr>
<th>Model</th>
<th>Burner Input Rating</th>
<th>AHRI Certified Ratings</th>
<th>Minimum Chimney Size</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>GPH</td>
<td>MBH</td>
<td>Heating Capacity (MBH)</td>
</tr>
<tr>
<td>WGO-2</td>
<td>0.70</td>
<td>98</td>
<td>86</td>
</tr>
<tr>
<td>WGO-3</td>
<td>0.70</td>
<td>98</td>
<td>86</td>
</tr>
<tr>
<td>WGO-4</td>
<td>0.80</td>
<td>112</td>
<td>98</td>
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<tr>
<td>WGO-5</td>
<td>0.95</td>
<td>133</td>
<td>115</td>
</tr>
<tr>
<td>WGO-6</td>
<td>1.00</td>
<td>140</td>
<td>123</td>
</tr>
<tr>
<td>WGO-7</td>
<td>1.00</td>
<td>140</td>
<td>123</td>
</tr>
<tr>
<td>WGO-8</td>
<td>0.80</td>
<td>112</td>
<td>98</td>
</tr>
<tr>
<td>WGO-9</td>
<td>0.95</td>
<td>133</td>
<td>115</td>
</tr>
</tbody>
</table>

*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 (O). 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

*Add “P” for packaged boiler (WGO-2 through WGO-6 only). Add “A” for boiler only (WGO-2 through WGO-9).

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

*Based on standard test procedures prescribed by the United States Department of Energy at combustion condition of 13.5% CO₂ and -0.02” W.C. draft.

*MBH refers to thousands of BTU per hour.

*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.

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.
GOLD SERIES CAST IRON OIL BOILER

Water with Tankless Heater | Oil | 98–357 MBH | 7 sizes
Series 3 | Chimney Vent | Up to 87% AFUE†

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
In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.
GOLD SERIES CAST IRON OIL BOILER

Steam with Tankless Heater Option | Oil | 133–357 MBH | 7 sizes
Series 3 | Chimney Vent | Up to 84% AFUE†

HIGH EFFICIENCY
CAST IRON STEAM BOILER

APPLICATIONS INCLUDE:
- Residential
- Light Commercial
- Multiple Boilers
- Indirect-fired Water Heating
- Radiant Heating

†Model Dependent
**DIMENSIONS**

**Weil-McLain reserves the right to change specifications without notice.**

**RATINGS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply (in.)</th>
<th>Return (in.)</th>
<th>Dimension (in.)</th>
<th>Tankless Heater #35-S-29</th>
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<tbody>
<tr>
<td>SGO-3</td>
<td>1-2½</td>
<td>2</td>
<td>A 13½ B 16½ L 14½</td>
<td>¼ ¼</td>
</tr>
<tr>
<td>SGO-4</td>
<td>1-2½</td>
<td>2</td>
<td>A 16½ B 20 L 16½</td>
<td>¼ ¼</td>
</tr>
<tr>
<td>SGO-5</td>
<td>1-2½</td>
<td>2</td>
<td>A 19½ B 23 L 18½</td>
<td>¼ ¼</td>
</tr>
<tr>
<td>SGO-6</td>
<td>2-2½</td>
<td>2</td>
<td>A 19 B 23 L 26½</td>
<td>¼ ¼</td>
</tr>
<tr>
<td>SGO-7</td>
<td>2-2½</td>
<td>2</td>
<td>A 22½ B 26 L 29½</td>
<td>¼ ¼</td>
</tr>
<tr>
<td>SGO-8</td>
<td>2-2½</td>
<td>2</td>
<td>A 25½ B 29 L 32½</td>
<td>¼ ¼</td>
</tr>
<tr>
<td>SGO-9</td>
<td>2-2½</td>
<td>2</td>
<td>A 28½ B 32 L 35½</td>
<td>¼ ¼</td>
</tr>
</tbody>
</table>

**WARRANTY:**

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

**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)
- Steam pressure gauge
- Siphon
- Gauge glass, cocks and guard

**STANDARD EQUIPMENT:**

- Factory tested and assembled cast iron section assembly
- 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

**LIMITED TRANSFERABLE WARRANTY:**

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

1. Add "P" for packaged boiler (SGO-3 through SGO-6 only); add "A" for boiler only.
3. Based on standard test procedures prescribed by the United States Department of Energy at combustion condition of 13.5% CO2 and -0.02" by the United States Department of Energy at combustion condition of 13.5% CO2 and -0.02".
4. MBH refers to thousands of BTU per hour.
5. Rating under “DOE Heating Capacity” for SGO-8 and -9 is AHRI gross output. DOE ratings do not apply to boilers above 300 MBH.
6. 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.
7. 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.
8. Listed draft losses are for standard burner settings.

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.
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
• Down to <20 ppm NOx Emissions*

• Natural Gas or Propane Modulating, Low Emissions Burner Design

• Pickled and Passivated Welded Design

• 30 psi Relief Valve

• 160 psi Working Pressure

• “Clover” Tube Design for Maximum Efficiency

• Direct Exhaust—Sidewall & Vertical Venting Options

• System Water Temp. Sensors

• Flue Gas Temp. Sensor

• Outlet & Inlet Water Temp. Sensor

• Outdoor Water Temp. Sensor

• Temperature & Pressure Gauge

• 50 VA Transformer

• Negative Pressure Regulated Gas Valve

• Venturi Mixing System

• Low-Profile, Stainless Steel Burner with Woven Steel Fiber Mesh

• Removable, Stainless Steel Condensate Tray

• Single-Point Installation

• “Door-Fit” Design

• 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

• - Either (2) network and (1) local or

• - Lead Boiler Rotation

• - Variable Primary Flow Design Capable

• - Either (2) network and (1) local or

• - (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

• 2 Year Parts Warranty

• 10 Year Heat Exchanger Warranty (Residential and Commercial)

• UL 353 Certified Operating Control

• UL 353 Certified High Limit Control with Manual Reset

• Manual Reset LWCO

• Lead Boiler Rotation

• Variable Primary Flow Design Capable

• - Either (2) network and (1) local or

• - (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

• 2 Year Parts Warranty

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

Dimensions and Product Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
<th>Q</th>
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<tr>
<td>SVF 750</td>
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<td>½”</td>
<td>79</td>
<td>¾”</td>
<td>31</td>
<td>½”</td>
<td>6</td>
<td>½”</td>
<td>22</td>
<td>1½”</td>
<td>6</td>
<td>½”</td>
<td>38</td>
<td>1½”</td>
<td>5¼”</td>
<td>15</td>
</tr>
<tr>
<td>SVF 1000/1100</td>
<td>50</td>
<td>¾”</td>
<td>79</td>
<td>½”</td>
<td>35</td>
<td>¾”</td>
<td>5½”</td>
<td>¼”</td>
<td>22</td>
<td>1½”</td>
<td>7½”</td>
<td>¼”</td>
<td>42</td>
<td>1½”</td>
<td>5½”</td>
<td>17</td>
</tr>
</tbody>
</table>

*height dimensions based on 5 ¼” spacing from floor to bottom*

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

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
- - Either (2) network and (1) local or
- - (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
- Manual Reset
- Low Water Cut-Off
- Freeze Protection
- Boiler Service Interval & Contractor Info

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
- Energy Star, SCAQMD
- 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.
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 Specifications

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<th>Model No.</th>
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<td>1500/2000</td>
<td>70½”</td>
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<td>76½”</td>
<td>4½”</td>
<td>17½”</td>
<td>52½”</td>
<td>8½”</td>
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<td>20½”</td>
<td>4½”</td>
<td>11½”</td>
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<tr>
<td>2500/3000</td>
<td>70½”</td>
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<td>35½”</td>
<td>15¾”</td>
<td>16¾”</td>
<td>8½”</td>
<td>77½”</td>
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<td>16½”</td>
<td>53½”</td>
<td>4½”</td>
<td>20½”</td>
<td>4½”</td>
<td>10½”</td>
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</tbody>
</table>

#### 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)

#### 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 Heating 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

#### 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*

*model dependent

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

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EVG 220</th>
<th>EVG 299</th>
<th>EVG 399</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSA INPUT (MBH)</td>
<td>220</td>
<td>299</td>
<td>399</td>
</tr>
<tr>
<td>DOE HEATING CAPACITY (MBH)</td>
<td>206</td>
<td>280</td>
<td>383*</td>
</tr>
<tr>
<td>NET AHRI (MBH)</td>
<td>179</td>
<td>243</td>
<td>333</td>
</tr>
<tr>
<td>AFUE</td>
<td>95.0%</td>
<td>95.0%</td>
<td>96.5%*</td>
</tr>
<tr>
<td>VENT MATERIAL</td>
<td>PVC, CPVC, PP, SS (AL29-4C)</td>
<td>PVC, CPVC, PP, SS (AL29-4C)</td>
<td>PVC, CPVC, PP, SS (AL29-4C)</td>
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<tr>
<td>VENT/COMBUSTION AIR CONNECTION DIAMETER</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>VENT/COMBUSTION AIR PIPE SIZE</td>
<td>3&quot; or 4&quot;</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>VENTING LENGTH</td>
<td>100'</td>
<td>100'</td>
<td>100'</td>
</tr>
<tr>
<td>MIN. RECOMMENDED PIPE SIZE</td>
<td>1¼&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
</tr>
<tr>
<td>SUPPLY/RETURN TAPPING</td>
<td>1¼&quot;</td>
<td>1½&quot;</td>
<td>1½&quot;</td>
</tr>
<tr>
<td>GAS CONNECTION SIZE</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
</tr>
<tr>
<td>APPROX. SHIPPING WEIGHT (Lbs.)</td>
<td>215</td>
<td>260</td>
<td>260</td>
</tr>
<tr>
<td>WATER VOLUME (Gal.)</td>
<td>4.6</td>
<td>7.0</td>
<td>6.7</td>
</tr>
</tbody>
</table>

*Combustion Efficiency

*Model Dependent
**DIMENSIONS**

**MODEL 220–399**

- **2½”**
- **6½”**
- **22¾”**
- **23”**
- **14¾”**
- **45”**
- **1¼”**
- **12⅛”**
- **8” ¾”**
- **9⅝”**
- **4⅛”**
- **8/one.num⁄/one.den/six.den”**
- **43/one.num⁄/one.den/six.den”**
- **16/five.num⁄/one.den/six.den”**
- **1”**
- **⅜”**

**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
The new Ultra Series 4 features a nano-coated heat exchanger to maximize efficiency and service life.
In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

**RATINGS**

<table>
<thead>
<tr>
<th></th>
<th>Ultra 230</th>
<th>Ultra 299</th>
<th>Ultra 399</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSA Input (Maximum)</td>
<td>230 MBH</td>
<td>299 MBH</td>
<td>399 MBH</td>
</tr>
<tr>
<td>CSA Input (Minimum)</td>
<td>46 MBH</td>
<td>62 MBH</td>
<td>80 MBH</td>
</tr>
<tr>
<td>DOE Heating Capacity</td>
<td>207 MBH</td>
<td>270 MBH</td>
<td>*364 MBH</td>
</tr>
<tr>
<td>Net AHRI</td>
<td>180 MBH</td>
<td>235 MBH</td>
<td>317 MBH</td>
</tr>
<tr>
<td>AFUE</td>
<td>94.1%</td>
<td>92.5%</td>
<td>*91.7%</td>
</tr>
</tbody>
</table>

*Combustion Efficiency

**DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>Ultra 230</th>
<th>Ultra 299</th>
<th>Ultra 399</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Recommended Pipe Size</td>
<td>1¼”</td>
<td>1¼”</td>
<td>1½”</td>
</tr>
<tr>
<td>Supply Tappings</td>
<td>1”</td>
<td>1¼”</td>
<td>1¼”</td>
</tr>
<tr>
<td>Return Tappings</td>
<td>1”</td>
<td>1¼”</td>
<td>1¼”</td>
</tr>
<tr>
<td>Gas Connection Size</td>
<td>½”</td>
<td>¾”</td>
<td>¾”</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

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

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

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

### 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

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>SF550</th>
<th>SF750</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Max. (MBH)</td>
<td>550</td>
<td>750</td>
</tr>
<tr>
<td>Input Min. (MBH)</td>
<td>110</td>
<td>150</td>
</tr>
<tr>
<td>Gross Output (MBH)</td>
<td>517</td>
<td>702</td>
</tr>
<tr>
<td>Net AHRI (MBH)</td>
<td>450</td>
<td>610</td>
</tr>
<tr>
<td>Thermal Efficiency</td>
<td>93.9%</td>
<td>93.6%</td>
</tr>
<tr>
<td>Vent Material</td>
<td>PVC, CPVC, PP, SS (AL29-4C)</td>
<td>PVC, CPVC, PP, SS (AL29-4C)</td>
</tr>
<tr>
<td>Vent/Air Size</td>
<td>6&quot; or 8&quot;</td>
<td>6&quot; or 8&quot;</td>
</tr>
<tr>
<td>Vent/Air Length</td>
<td>100'</td>
<td>30' or 100'</td>
</tr>
<tr>
<td>Min. Gas Pressure (WC)</td>
<td>3.5&quot;</td>
<td>3.5&quot;</td>
</tr>
<tr>
<td>Supply/Return Connections</td>
<td>2&quot; NPT Male</td>
<td>2&quot; NPT Male</td>
</tr>
<tr>
<td>Gas Connection Size</td>
<td>1¼&quot; NPT Male</td>
<td>1¼&quot; NPT Male</td>
</tr>
<tr>
<td>Full Length</td>
<td>47 ¼&quot;</td>
<td>47 ¼&quot;</td>
</tr>
</tbody>
</table>

### DIMENSIONS

- **5¾” x 18 3⁄8” x 47 ¼”**
- **53”**
- **18 1⁄4”**
- **47 ¼”**
- **6 1/4” x 14 3/4”**
- **5 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.
SlimFit® 1000–2000
HIGH-EFFICIENCY CONDENSING BOILER
Water | Natural Gas or Propane | 1000–2000 MBH | 3 Sizes
Direct Exhaust or Direct Vent | Up to 96.1% Thermal Efficiency†

Installs fast. Built to last.

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

†Model Dependent
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.

### DIMENSIONS

See table below for front-to-vent length dimensions

<table>
<thead>
<tr>
<th>MIN. GAS PRESSURE (WC)</th>
<th>PVC, CPVC, PP, SS (AL29-4C)</th>
<th>PVC, CPVC, PP, SS (AL29-4C)</th>
<th>PVC, CPVC, PP, SS (AL29-4C)</th>
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</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td><strong>SF1000</strong></td>
<td><strong>SF1500</strong></td>
<td><strong>SF2000</strong></td>
</tr>
<tr>
<td>Input Max. (MBH)</td>
<td>1000</td>
<td>1500</td>
<td>2000</td>
</tr>
<tr>
<td>Input Min. (MBH)</td>
<td>167</td>
<td>250</td>
<td>333</td>
</tr>
<tr>
<td>Gross Output (MBH)</td>
<td>958</td>
<td>1437</td>
<td>1906</td>
</tr>
<tr>
<td>Net AHRI (MBH)</td>
<td>833</td>
<td>1250</td>
<td>1657</td>
</tr>
<tr>
<td>Thermal Efficiency</td>
<td>95.8%</td>
<td>95.8%</td>
<td>95.3%</td>
</tr>
<tr>
<td>Vent Material</td>
<td>PVC, CPVC, PP, SS (AL29-4C)</td>
<td>PVC, CPVC, PP, SS (AL29-4C)</td>
<td>PVC, CPVC, PP, SS (AL29-4C)</td>
</tr>
<tr>
<td>Vent/Air Size</td>
<td>6” or 8”</td>
<td>8”</td>
<td>8”</td>
</tr>
<tr>
<td>Min. Gas Pressure (WC)</td>
<td>3”</td>
<td>3”</td>
<td>3”</td>
</tr>
<tr>
<td>Supply/Return Connections</td>
<td>3” ASME Class 150 Flange</td>
<td>3” ASME Class 150 Flange</td>
<td>3” ASME Class 150 Flange</td>
</tr>
<tr>
<td>Gas Connection Size</td>
<td>2” NPT Male</td>
<td>2” NPT Male</td>
<td>2” NPT Male</td>
</tr>
<tr>
<td>Full Length</td>
<td>77 15/16”</td>
<td>77 15/16”</td>
<td>90 3/16”</td>
</tr>
<tr>
<td>Front-To-Vent Length</td>
<td>67 7/16”</td>
<td>67 7/16”</td>
<td>79 1/4”</td>
</tr>
</tbody>
</table>

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.
COMMERCIAL
NON-CONDENSING CAST IRON BOILERS

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 COMMERCIAL GAS BOILER
Steam | Gas | 315–495 MBH | 5 Sizes
Series 5 | Up to 77.2% Thermal Efficiency†

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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>C.S.A. Input MBH</th>
<th>Thermal Efficiency</th>
<th>C.S.A. Gross Output MBH</th>
<th>AHRI Ratings</th>
<th>AHRI Chimney Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGH-85</td>
<td>315</td>
<td>77.2%</td>
<td>243</td>
<td>Steam MBH: 182, Steam (Sq./Ft): 760</td>
<td>9” I.D. x 20’</td>
</tr>
<tr>
<td>EGH-95</td>
<td>360</td>
<td>77.2%</td>
<td>278</td>
<td>Steam MBH: 208, Steam (Sq./Ft): 868</td>
<td>10” I.D. x 20’</td>
</tr>
<tr>
<td>EGH-105</td>
<td>405</td>
<td>77.1%</td>
<td>312</td>
<td>Steam MBH: 234, Steam (Sq./Ft): 977</td>
<td>10” I.D. x 20’</td>
</tr>
<tr>
<td>EGH-115</td>
<td>450</td>
<td>77.1%</td>
<td>347</td>
<td>Steam MBH: 260, Steam (Sq./Ft): 1,085</td>
<td>12” I.D. x 20’</td>
</tr>
<tr>
<td>EGH-125</td>
<td>495</td>
<td>77.1%</td>
<td>382</td>
<td>Steam MBH: 286, Steam (Sq./Ft): 1,193</td>
<td>12” I.D. x 20’</td>
</tr>
</tbody>
</table>

- Add "PI" to designator for intermittent electronic ignition system (standard for EGH-105 through 125).
- MBH refers to thousands of BTU per hour.
- 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.
- 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
In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.

### Dimensions

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Supply EGH O</th>
<th>Return EGH R</th>
<th>Dimensions</th>
<th>Gas Connection F</th>
<th>Draft Hood Outlet Size</th>
<th>Approx. Shipping weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGH-85</td>
<td>2–3&quot;</td>
<td>2–2½&quot;</td>
<td>38⅛&quot; 9&quot; 15⅜° 8¾°</td>
<td>⅛&quot; 9°</td>
<td>825</td>
<td></td>
</tr>
<tr>
<td>EGH-95</td>
<td>2–3&quot;</td>
<td>2–2½&quot;</td>
<td>42½&quot; 10° 15⅜° 8¾°</td>
<td>¼&quot; 10°</td>
<td>915</td>
<td></td>
</tr>
<tr>
<td>EGH-105</td>
<td>2–3&quot;</td>
<td>2–2½&quot;</td>
<td>46⅛&quot; 10° 15⅜° 8¾°</td>
<td>⅛&quot; 10°</td>
<td>1,005</td>
<td></td>
</tr>
<tr>
<td>EGH-115</td>
<td>2–3&quot;</td>
<td>2–2½&quot;</td>
<td>51&quot; 12° 15⅜° 8¾°</td>
<td>⅛&quot; 12°</td>
<td>1,095</td>
<td></td>
</tr>
<tr>
<td>EGH-125</td>
<td>2–3&quot;</td>
<td>2–2½&quot;</td>
<td>55⅛&quot; 12° 15⅜° 8¾°</td>
<td>⅛&quot; 12°</td>
<td>1,185</td>
<td></td>
</tr>
</tbody>
</table>

*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.*

#### Standard Equipment:

- Factory-assembled section block
- Insulated extended jacket
- Horizontal to vertical draft hood
- Stainless steel burners
- Burner shield
- Combination gas valve for 24 volt
- Non-lining 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

---

2Available on special request only, when tankless heater is specified.

3When a tankless water heater coil is installed, use the tapping in the heater for an additional operating control.
LGB COMMERCIAL GAS BOILER
Water or Steam | Gas | 400–2860 MBH | 20 Sizes
Series 2 | Up to 82.8% Thermal Efficiency

VERSATILE COMBUSTION CONTROL SYSTEMS

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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Boiler Model Number</th>
<th>A.G.A Input MBH</th>
<th>A.G.A Gross Output MBH</th>
<th>AHRI Certified Ratings</th>
<th>Boiler H.P.</th>
<th>Boiler Water Content (Gal.)</th>
<th>Thermal Efficiency</th>
<th>Approx. Shipping Weight (Lbs.)</th>
<th>Vent Breeching inches I.D. Chimney or Equivalent</th>
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1Add 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.

2MBH refers to thousands of BTU per hour.

3Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirement of the building and nothing 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.

420' 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
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 (120/240)
- 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 23)
- Operating temperature control (LGB-21 through 23)
- High limit temperature control (LGB-21 through 23)
- 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
- Combination pressure temperature gauge

**ADDITIONAL EQUIPMENT**
- WFFP controls (LGB-6 through 23)
- WMBC controls (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" inspectionappings 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
## 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

<table>
<thead>
<tr>
<th>Boiler Model</th>
<th>AHRI</th>
<th>AHRI Net Rating</th>
<th>Thermal Efficiency</th>
</tr>
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<tbody>
<tr>
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<td>Oil</td>
<td>Gas</td>
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<tr>
<td></td>
<td>Input GPH</td>
<td>Input MBH</td>
<td>Gross Output MBH</td>
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<td>991</td>
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<td>1110</td>
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<td>1180</td>
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<tr>
<td>1280</td>
<td>11.6</td>
<td>1674</td>
<td>1348</td>
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</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Boiler Model</th>
<th>Supply Tapping</th>
<th>Return Tapping</th>
<th>Dimensions (in.) — Reference Drawings Above</th>
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<tbody>
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<td>Water</td>
<td>Steam</td>
<td>Water</td>
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<tr>
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<td>2</td>
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<td>3</td>
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<tr>
<td>1280</td>
<td>2</td>
<td>4&quot;</td>
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### Standard Equipment:

- 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 relief 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

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In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.
# 88 SERIES COMMERCIAL GAS BOILER

Water or Steam | Gas, Oil or Oil & Gas | 996–5845 MBH

Series 2 | Up to 85.7% Thermal Efficiency

## 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
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<thead>
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<td>Gas Input MBH</td>
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## 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 115. 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.
- Flue collar connection is oval, 16½ x 19½.

*Model Dependent
### DHX Series Tanks Steam and Water Boilers

#### 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
  - 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

#### DIMENSIONS:

<table>
<thead>
<tr>
<th>Boiler Model</th>
<th>Supply Tapping</th>
<th>Return Tapping</th>
<th>AHRI Vent or Liner (Diam./In.)</th>
<th>Dimensions (In.) — Reference Drawings Opposite</th>
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<tbody>
<tr>
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*For 18” diameter breaching, flue collar is oval (16⅛ x 19⅞)

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

| Boiler Model | Light Oil GPH | Heavy Oil GPH | Gas MBH | Gross Steam Output MBH | Gross Water Output MBH | AHRI Burner Capacity Steam (GPM/FL) | AHRI Burner Capacity Steam (GPM/FL) | Net Firebox Volume (CFM Light Oil & Gas) | Stack Gas Through Boiler-In. H₂O (SQ. FT.) | AHRI Chimney Size Vent (Diam.) | Thermal Efficiency Light Oil | Thermal Efficiency Heavy Oil | Thermal Efficiency Gas | Thermal Efficiency Steam | Thermal Efficiency Water |
|--------------|---------------|---------------|--------|------------------------|------------------------|---------------------------------------|---------------------------------------|------------------------------------------|------------------------------------------|--------------------------------|-----------------------------|-----------------------------|-------------------------|------------------------|------------------------|------------------------|
| 894          | 17.60         | 16.65         | 2540   | 2040                   | 2052                   | 6,598                                 | 1584                                 | 1784                                     | 60.6                                 | 45.40                         | 1,088                       | 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                       | 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                       | 82.8%                      | 80.3%                    | 83.6%                   | 81.4%                   |
| 1194         | 25.00         | 24.00         | 3608   | 2,897                  | 2957                   | 9,375                                 | 2249                                 | 2571                                     | 86.7                                 | 63.64                         | 1,555                       | 82.8%                      | 80.3%                    | 83.3%                   | 81.3%                   |
| 1294         | 27.50         | 26.00         | 3931   | 3187                   | 3259                   | 10,310                                | 2474                                 | 2834                                     | 95.3                                 | 69.72                         | 1,710                       | 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                       | 82.9%                      | 80.4%                    | 84.2%                   | 81.6%                   |
| 1494         | 32.50         | 31.00         | 4661   | 3772                   | 3867                   | 12,201                                | 2928                                 | 3362                                     | 112.6                                | 81.88                         | 2,020                       | 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                       | 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                       | 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                       | 82.9%                      | 80.4%                    | 84.9%                   | 82.3%                   |
| 1894         | 42.50         | 40.50         | 6134   | 4938                   | 5095                   | 15,954                                | 3854                                 | 4430                                     | 147.6                                | 106.20                        | 2,640                       | 82.9%                      | 80.5%                    | 85.1%                   | 82.5%                   |
| 1994         | 45.00         | 42.50         | 6495   | 5228                   | 5404                   | 16,894                                | 4059                                 | 4700                                     | 156.2                                | 112.28                        | 2,795                       | 83.0%                      | 80.5%                    | 85.3%                   | 82.7%                   |
| 2094         | 47.50         | 45.00         | 6856   | 5519                   | 5761                   | 17,854                                | 4285                                 | 4970                                     | 164.9                                | 118.36                        | 2,945                       | 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                       | 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                       | 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                       | 83.0%                      | 80.5%                    | 86.0%                   | 83.4%                   |
| 2494         | 57.50         | 54.60         | 8371   | 6739                   | 7034                   | 21,799                                | 5232                                 | 6171                                     | 199.6                                | 142.68                        | 3,565                       | 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                       | 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.
### DIMENSIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Qty.</th>
<th>Size</th>
<th>Qty.</th>
<th>Size</th>
<th>Supply Outlet</th>
<th>Return Outlet</th>
<th>Steam Only</th>
<th>Steam</th>
<th>Water</th>
<th>Water</th>
<th>Steam Only</th>
<th>Light</th>
<th>Gas &amp; Oil</th>
<th>Steam Only</th>
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*All 6" supply outlets are tapped. All 8" and 10" supply outlets are flanged. 6" return is tapped.*

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### STANDARD EQUIPMENT:

- **All Boilers**
  - Insulated flush jacket
  - Flue collar with built-in breeching 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

In the interest of continual improvement in product and performance, Weil-McLain reserves the right to change specifications without notice.
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
AQUA PLUS®
INDIRECT-FIRED WATER HEATERS
Stainless Steel Tank | Series 2 | 5 Sizes
Available in sizes: 35, 45, 55, 85, 105 Gallons

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 1st 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)

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<th>Aqua Plus® Model</th>
<th>200°F Boiler Water</th>
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<th>180°F Boiler Water</th>
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#### DIMENSIONS

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<tr>
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<td></td>
<td>1 in NPT*</td>
<td></td>
</tr>
</tbody>
</table>

*1¼ piping required

---

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

### STANDARD EQUIPMENT:
- 316L welded stainless steel tank
- 316L stainless steel coil over one inch in diameter
- 2" thick CFC-free foam insulation
- 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.
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

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

**Limited Warranty:**
- Residential: 12 Years Tank; 2 Years Parts
- Commercial: 10 Years Tank; 1 Year Parts

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

<table>
<thead>
<tr>
<th>Stages Available</th>
<th>Stand Alone Control Max Number Stages</th>
<th>Accepts Extension Module</th>
<th>Number Extension Modules Capable for Each Control</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 8 8 8 4 6 4 4 8</td>
<td>No Yes Yes N/A Yes N/A Yes Yes N/A</td>
<td>N/A 2 2 N/A 2 N/A 2 N/A 2 N/A 8</td>
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<table>
<thead>
<tr>
<th>Boiler / Burner Control Outputs</th>
<th>Staging Burners</th>
<th>13S ohm Modulation Burners (Optional)</th>
<th>Current Voltage Modulation Burners</th>
</tr>
</thead>
<tbody>
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<tr>
<th>System Control</th>
<th>Set Point Water</th>
<th>Hot Water Rest</th>
<th>Set Point Steam</th>
<th>Outdoor Sensor</th>
<th>Heating System Sensor</th>
<th>Sensors Purchased Separately</th>
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</thead>
<tbody>
<tr>
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<tr>
<th>Sensors Included</th>
<th>Outdoor Sensor</th>
<th>Heating System Sensor</th>
<th>Sensors Purchased Separately</th>
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</thead>
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<table>
<thead>
<tr>
<th>Remote Communication Choices Included</th>
<th>4-20 Remote Set Point Input</th>
<th>BACnet Communications</th>
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<thead>
<tr>
<th>Staging Boiler Specific Software Option</th>
<th>Multi. Stage Options (On/Off, Lo/Hi, 3 Stage, 4 Stage)</th>
<th>Lo-La/Lo-Hi Options</th>
<th>OSS Software (Assists if Staging Boilers Are Oversized)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>■ ■ N/A</td>
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<thead>
<tr>
<th>Modulation Boiler Specific Software Options</th>
<th>Adj. Ignition Start Point</th>
<th>Adj. Modulation Start Point</th>
<th>Parallel Modulation Option</th>
<th>Process Software Option</th>
<th>Boiler Lockout Inputs</th>
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<tr>
<td></td>
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![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](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

---

*Only on single boiler mode*
Contractors report up to a 50% increase in sales\(^1\) with financing offers from the GreenSky® Loan Program\(^2\)

Weil-McLain has teamed up with the GreenSky® 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\(^3\)
Customers can finance projects wherever they need work to be done.

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Use Sponsor Number: 750

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- Credit limits up to $55,000\(^5\)
- High approval rates\(^6\)

GET PAID FASTER\(^6\)

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

DELIGHT YOUR CUSTOMERS

- Paperless application process\(^6\)
- Decisions in seconds
- GPS-enabled mobile app

---

\(^1\)Based on GreenSky® Program internal analytics. \(^2\)GreenSky® 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® is a registered trademark of GreenSky, LLC. GreenSky, LLC and its wholly-owned subsidiaries service the loans on behalf of participating lenders. \(^3\)Loans are for personal, family, and household use. \(^4\)Deferred Interest plans subject to credit approval. \(^5\)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. \(^6\)Fixed APR during the life of the loan. Subject to credit approval. \(^6\)See Operating Instructions at 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 ↓

1. Include a Payment Option With Every Proposal
2. Receive a Quick Credit Decision
3. Have Your Customer Sign a Simple Finance Agreement
4. Get Paid...Fast

For any questions, contact us today. ↓

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.

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.
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 WMBoilerBucks.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!

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Water or Steam
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Floor Mount or Wall Mount
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Up to 95.2% AFUE†

**WM97+®**
Water or Steam
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
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Direct Exhaust or Direct Vent
Wall Mount
70–175 MBH
Up to 93.7% Thermal Efficiency†

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Water or Steam
Natural or Propane Gas
110–175 MBH
Up to 97.3% Thermal Efficiency†

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Water or Steam
Natural or Propane Gas
150–250 MBH
Up to 96.7% Thermal Efficiency†

**ULTRA™**
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Floor Mount or Wall Mount
70–399 MBH
Up to 95.2% AFUE†

**ECG**
Water
Natural or Propane Gas
With Tankless Heater
Induced Draft
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Up to 84.9% AFUE†

**WTGO**
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With Tankless Heater
Oil
Chimney or Direct Vent
98–132 MBH
Up to 87% AFUE†

**EGH**
Steam
Gas
315–495 MBH
Up to 82.3% Thermal Efficiency†

**80 SERIES**
Water or Steam
Gas, Oil, or Oil and Gas
345–1674 MBH
Up to 82.2% Thermal Efficiency†

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

**LGB**
Water or Steam
Gas
400–2860 MBH
Up to 86.4% Thermal Efficiency†

**88 SERIES**
Water or Steam
Gas, Oil, or Oil and Gas
2540–8660 MBH
Up to 86.4% Thermal Efficiency†

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

**AQUA PRO™**
Non-Metallic / Composite Tank
30–119 gal.

**AQUA PLUS®**
Stainless Steel
5 Tank Sizes: 35–105 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**

**WMRP, WMH**
Brazed Plate Heat Exchangers
Forced Air Heat Exchangers

*Model Dependent  †See product page for ENERGY STAR® qualifications