High Efficiency Combination Boiler and Domestic Water Heater

HEAT . . . . and Hot Water . . . . TOGETHER in One Appliance

- 94% AFUE
- Whisper Quiet
- Compact for Closet Applications
- ASME Stamped Heat Exchanger
- Compatible with Standard Glycol
- Direct Vent Sealed Combustion
- 2” & 3” PVC, CPVC, PP, SS Venting Options
- Concentric Venting Option
- Low NOx - 2012 SCAQMD Certified
- DHW - Low Lead Content Certified
- Multiple DHW Modes Allows User to Select Balance between Speed and Efficiency
- Unparalleled Reliability through Simplicity
- Simplified Design Eliminates Domestic Heat Exchanger, Circulator & Diverter Valve
- Integral Circulator
- 1 Year Limited Parts Warranty
- 10 Year Limited Heat Exchanger Warranty
- 5 & 10 Year Extended Warranty Options

CONDENSES IN BOTH SPACE HEATING AND DOMESTIC HOT WATER MODES
Challenger Combi

Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>CC 125 C</th>
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</thead>
<tbody>
<tr>
<td>Input Modulation (MBH)</td>
<td>33 to 124</td>
</tr>
<tr>
<td>AFUE</td>
<td>94%</td>
</tr>
<tr>
<td>DOE Heating Capacity (MBH)</td>
<td>110</td>
</tr>
<tr>
<td>Net AHRI Rating (MBH)</td>
<td>96</td>
</tr>
<tr>
<td>Fuel</td>
<td>NG and LP</td>
</tr>
<tr>
<td>DHW flow rate at 70°F temp. rise (GPM)</td>
<td>3.0</td>
</tr>
<tr>
<td>DHW minimum flow rate (GPM)</td>
<td>0.5</td>
</tr>
<tr>
<td>DHW maximum temperature (F [°C])</td>
<td>149 (65)</td>
</tr>
<tr>
<td>Maximum CH output temperature (F [°C])</td>
<td>194 (90)</td>
</tr>
<tr>
<td>Cabinet Height (Inch)</td>
<td>28</td>
</tr>
<tr>
<td>Cabinet Width (Inch)</td>
<td>17 3/4</td>
</tr>
<tr>
<td>Cabinet Depth (Inch)</td>
<td>9 1/2</td>
</tr>
<tr>
<td>Weight (Lbs)</td>
<td>80</td>
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</tbody>
</table>

- The Challenger is certified both as a boiler and a water heater.
- Boiler Certified to ANSI Z21.13 / CSA 4.9
- Water Heater Certified to ANSI Z21.10.3 / CSA 4.3
- Water Heater Certified Low Lead Content Per NSF/ANSI 372.

Standard Features

**Heat Exchanger**
- Separate boiler and DHW copper waterways cast directly into the heat exchanger
- Cast aluminum heat exchanger with vertical flueways
- Compatible with Standard Glycol
- 10 year limited warranty

**Burner**
- Stainless steel burner with woven fiber mesh
- Direct spark ignition
- Variable speed blower assembly
- Negative pressure regulated gas valve
- Propane conversion kit included

**Sensors**
- Outdoor temperature
- Boiler supply temperature
- Boiler return temperature
- Flue temperature
- DHW temperature
- DHW flow switch
- Boiler system pressure

**Intake and Venting**
- 2" & 3" Parallel venting (standard)
- Concentric venting (optional)
- PVC, CPVC, PP, SS material options

**Control**
- Digital control displays in US customary or metric units
- Advanced modulating temperature control
- Outdoor reset
- Boiler low water protection
- Freeze protection
- High limit protection
- 3 DHW modes (Self learning ECO, standby, and on-demand)
- DHW priority
- DHW thermostatic mixing / anti-scald valve

**Electrical Connections**
- 120V/60Hz Power supply
- Primary pump
- Thermostat
- Outdoor sensor

**Piping Connections**
- EZ Install piping mounting bracket
- 3/4" NPT DHW inlet and outlet
- 1" NPT boiler supply and return
- 3/4" Condensate drain
- Integral circulator

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