95% Efficient!

Alpine™

Gas Fired, High Efficiency, Stainless Steel, Condensing Water Boiler

- 95% AFUE
- 80 – 399 MBH (6 sizes) 80-210 sizes are floor mount or wall hung – **SAME BOILER DOES BOTH!**
- Commercial models available, 500-800 MBH (4 sizes)
  Complete product info and specifications available separately
- Field-proven stainless steel heat exchanger
- Natural or LP gas
- Circulator included (80-285 models)
- 5-year part replacement warranty
  For residential boilers under 300 MBH
- Meets requirements of South Coast Rule 1146.2

- Backlit LCD touchscreen display provides diagnostic and troubleshooting information via intuitive text and menus, without cryptic codes or scrolling
- Full modulation with 5-to-1 turndown and adaptable firing rate output
- Outdoor reset included, plus warm weather shutdown, and off-season pump exercising
- DHW priority, control data logging, multiple & adjustable pump outputs
- 4-20mA and modbus inputs
- Compatible with optional Sage Zone Control Circulator Panel, which matches the boiler firing rates to actual zone load, saving money, energy, and preventing excessive boiler cycling

95% AFUE!

Anywhere

Floor or Wall Mounting

U.S. Boiler Company
Alpine: Technical Information

Alpine Residential Standard Equipment

- Direct vent appliance
- Nylon floor guides
- Pre-installed hanging bracket and wall mount kit included (80-210)
- Gas, water, electrical connections on left side of boiler
- Slide-out control panel (80-285)
- Slide-out line voltage terminal strip (80-285)
- Sage2.3 Control System
  - LCD touch screen display
  - Self-guided control menus
  - 100+ help screens
  - Built-in self diagnostics
  - (3) separate circulator outputs
  - Built-in sequencer, stages up to (8) boilers
  - 4-20 MV inputs for external control
  - Outdoor reset including wired outside sensor
  - DHW priority
  - Warm weather shutdown
- Variable speed combustion blower
- Natural or LP gas
- Negative pressure gas valve
- Stainless steel heat exchanger
- Boiler loop circulator (80-285)
- Polypropylene condensate trap w/overflow protection
- Supply, return, and auto reset high limit water sensors
- 30 PSI safety relief valve
- Temperature and pressure gauge
- Flue gas temperature sensor and differential pressure switch
- CPVC to PVC vent kit
- Includes 30° CPVC, 90° elbow, 2-vent terminals, screens,
- Five year parts replacement warranty (residential)

Alpine Ratings & Specifications (sea level to 2000 feet)

<table>
<thead>
<tr>
<th>Model</th>
<th>AFUE%</th>
<th>Input (MBH) min-max</th>
<th>DOE Heating Capacity (MBH)</th>
<th>Net AHRI (MBH)</th>
<th>Vent Size (Inches)</th>
<th>Approx. Shipping Weight. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODELS FOR WALL OR FLOOR MOUNTING</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ALP080B</td>
<td>95.0</td>
<td>16-80</td>
<td>72</td>
<td>63</td>
<td>3</td>
<td>137</td>
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<tr>
<td>ALP105B</td>
<td>95.0</td>
<td>21-105</td>
<td>96</td>
<td>83</td>
<td>3</td>
<td>155</td>
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<tr>
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<td>95.0</td>
<td>30-150</td>
<td>136</td>
<td>118</td>
<td>3</td>
<td>182</td>
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<tr>
<td>ALP210B</td>
<td>95.0</td>
<td>42-210</td>
<td>194</td>
<td>169</td>
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<td>206</td>
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<tr>
<td>FLOOR MOUNTED MODELS</td>
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<tr>
<td>ALP285B</td>
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<td>57-285</td>
<td>262</td>
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<td>256</td>
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<tr>
<td>ALP399C</td>
<td>94.1</td>
<td>80-399</td>
<td>375^</td>
<td>326^</td>
<td>4</td>
<td>316</td>
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</table>

^1Thermal efficiency ^2Gross output ^3Net rating

Alpine Vent & Intake Sizes

<table>
<thead>
<tr>
<th>Model</th>
<th>Intake Size</th>
<th>Vent Size</th>
<th>Max Length Intake/Vent</th>
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<tbody>
<tr>
<td>ALP080B</td>
<td>2”</td>
<td>2”</td>
<td>60'/60’</td>
</tr>
<tr>
<td>ALP105B</td>
<td>3”</td>
<td>3”</td>
<td>135'/135’</td>
</tr>
<tr>
<td>ALP150B</td>
<td>3”</td>
<td>3”</td>
<td>135'/135’</td>
</tr>
<tr>
<td>ALP210B</td>
<td>3”</td>
<td>3”</td>
<td>135'/135’</td>
</tr>
<tr>
<td>ALP285B</td>
<td>3”</td>
<td>3”</td>
<td>60'/60’</td>
</tr>
<tr>
<td>ALP399</td>
<td>4”</td>
<td>4”</td>
<td>100'/100’</td>
</tr>
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</table>

Additional approved options

Alpine Dimensions (inches)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>M</th>
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<tbody>
<tr>
<td>ALP080B</td>
<td>12-9/16</td>
<td>1/2</td>
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<td>1</td>
<td>32-3/16</td>
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<td>ALP105B</td>
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<td>1/2</td>
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<td>1</td>
<td>32-3/16</td>
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<td>1</td>
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<tr>
<td>ALP285B</td>
<td>21-13/16</td>
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<td>1-1/4</td>
<td>1-1/4</td>
<td>43-7/16</td>
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<td>ALP399</td>
<td>31-3/16</td>
<td>3/4</td>
<td>1-1/2</td>
<td>1-1/2</td>
<td>43-1/2</td>
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</table>

Alpine Accessories:

- LWCO kit, auto reset 24V, 80-285 (P/N: 100592-01)
- LWCO kit, auto reset 24V, 399C (P/N: 105591-01)
- Sage Zone Control
  - Circulator Panel (P/N: 104590-01)
  - Valve Panel (P/N: 104589-01)
- Service parts repair kit (P/N: 105319-01)

NOTES:
- DOE Heating Capacity (ALP080 through ALP285); Gross Output (ALP399)
- Safety Relief Valve Pressure, Water (ALP080B thru ALP285B) – 30 PSI std.; 50 PSI, 80 PSI, and 100 PSI optional
- Safety Relief Valve Pressure, Water (ALP399 only) - 50 PSI std.; 80 PSI and 100 PSI optional
- ASME certified 150 PSI Maximum Allowable Working Pressure at 210°F
- Max allowable temperature setting 210°F
- Target setpoint is 190°F, automatic reset high limit setpoint is 200°F and manual reset high limit setpoint is 210°F
- Boilers shipped set for natural gas; field adjustment for LP (see instruction manual)
- For elevations above 2000 feet, reduce ratings four percent (4%) per 1000 feet above sea level