Ascent™
Combi boiler by Energy Kinetics

Simple technology that cuts the high fuel bill of tankless coil boilers by up to 20% or more!

Exceptional Benefits:
- Proven 30 year boiler!
- Whisper quiet with silent burner cover – no need to turn up the TV!
- Combined heat and hot water in one boiler with hot water priority!
- Replaces 2, 3 and 4 section oil boilers!
- Lifetime Limited Warranty

For high flow showers, fast fill tubs, higher efficiency and more fuel savings, or if you currently have a hot water tank, ask about our other great Energy Kinetics products! (See back cover.)

*SEE PAGE 2

ENERGY KINETICS JUMPS FAR AHEAD of old fashioned tankless coil technology!

Plus! Your family enjoys peaceful quiet thanks to our boiler design – and, with the silent burner cover, Ascent is more quiet than a small microwave oven!

Other boilers are 30 times noisier!
The Ascent Combi is ready 24/7, just like conventional tankless coil boilers, but because of its unique design and plate heat exchanger, it can cut your energy bill by up to 20% or more.

There’s no tankless coil boiler that can compare for energy savings, quietness, and hot water delivery.

And for even greater savings, you can select a smart learning mode or on demand operation at the touch of a button.

If you don’t use hot water overnight during the summer months, your boiler doesn’t have to run!

It’s so smart, it can learn your weekly routines and be ready when you usually need hot water and save energy when you don’t.

Tankless coil boilers typically fail at the coil flange or cast iron sections. Ascent has no coil flange or cast iron sections.

Tankless coil boilers waste fuel through draft regulators. Ascent has no draft regulator.

Infrared doesn’t lie! Shown at left, Ascent sends more heat into your home. Shown at right, a tankless coil boiler wastes heat and energy through jacket loss.
These additional design and engineering features help Ascent easily outperform old-fashioned tankless coils.

The energy converter is a proven 30 year spiral design for the highest efficiency. There are no sections or pins to foul, clean, or leak.

Removable stainless steel alloy combustion chamber for clean burning operation.

Hefty 2 inch thick insulation wrap for high efficiency and quiet operation.

Swing down door for easy accessibility.

Ascent Hydrostat™ for hot water comfort and efficiency that outperforms tankless coils.

Silent burner cover combined with our spiral boiler design delivers whisper quiet operation.

Built in stand keeps Ascent off the cold floor.

UP TO 87% AFUE

Hard water? Add a scale stopper for reliable operation (up to 25 grains of hardness) without cleaning!

Clean In Place (CIP) valves for the plate heat exchanger and mixing valves.

On the control panel, select one of three operating modes that best suits your needs.

“Enjoy whisper quiet Ascent, and leave old tankless coil problems in the distant past!”

Ascent™ Combi boiler by Energy Kinetics
Ascent Combi Model EK1T Installation Dimensions

Recommended service clearance: 20” from front door face, 5” left and right sides. Clearance to combustibles: 4” from the rear cover; 10” above top cover; 9” from flue pipe; 0” for all the other dimensions.

Included (factory piped and assembled): ASSE mixing valve, boiler base, blocked vent safety switch, dynamic air elimination manifold, ON/OFF switch and junction box, 3/4” drain valve, plate heat exchanger and combi hot water assembly, hydronic Y-strainer, circulator flanges, door safety switch.

Included (field install):
Clean in place valves, relief valve, hydronic circulator (wiring included).
Draft regulator not required or recommended due to advanced combustion chamber.

Ascent Combi Model EK1T Specifications

<table>
<thead>
<tr>
<th>Input</th>
<th>Gross output</th>
<th>AFUE</th>
<th>Hot water*</th>
</tr>
</thead>
<tbody>
<tr>
<td>.85 GPH</td>
<td>104,000 BTU/HR</td>
<td>87%</td>
<td>2.7 GPM</td>
</tr>
<tr>
<td>1.00 GPH</td>
<td>121,000 BTU/HR</td>
<td>86%</td>
<td>3.1 GPM</td>
</tr>
<tr>
<td>1.25 GPH</td>
<td>149,000 BTU/HR</td>
<td>85%</td>
<td>3.8 GPM</td>
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</tbody>
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<th>Input</th>
<th>Gross output</th>
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</tr>
</thead>
<tbody>
<tr>
<td>120,000 BTU/HR</td>
<td>103,000 BTU/HR</td>
<td>85%</td>
<td>2.7 GPM</td>
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<tr>
<td>150,000 BTU/HR</td>
<td>128,000 BTU/HR</td>
<td>85%</td>
<td>3.3 GPM</td>
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<tr>
<td>175,000 BTU/HR</td>
<td>147,000 BTU/HR</td>
<td>84%</td>
<td>3.8 GPM</td>
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</tbody>
</table>

*Domestic hot water rating based on 77º rise. Not for comparison with tankless boiler ratings.

As an ENERGY STAR® Partner, Energy Kinetics has determined model EK-1T meets ENERGY STAR® guidelines for energy efficiency for oil heat input .85 GPH.