Efficient by design
The Vitorond 100, with its triple-pass heat exchanger, is designed to achieve a high level of efficiency while providing exceptional comfort. Unlike single-pass boilers, the Vitorond 100 guides flue gasses through the heat exchanger three times (see diagram on next page), allowing the greatest amount of heat extraction to be achieved. This design significantly increases the efficiency of the boiler and results in excellent fuel utilization, reducing emissions and your heating cost.

Control your comfort
For greater heating system control and additional energy savings, choose a Vitotronic system option. The Vitorond 100 boiler control adjusts the boiler water to outdoor temperatures, boosting efficiency while keeping your home comfortable at all times.

The Vitotronic control even allows for safe, low-temperature operation by protecting the heat exchanger against condensation and potential damage. This means your boiler uses less fuel, reducing your energy consumption and heating bill.

Convenience all around
The Vitorond 100 is your ideal choice for an economical retrofit of your heating system. Thanks to its compact, space-saving design, the Vitorond 100 is easy to install even in older buildings with narrow entrances and small mechanical rooms. And with the direct vent option, the Vitorond 100 (up to VR1-33) does not require a chimney or combustion air supply opening for even greater installation flexibility. The full-swing left- or right-hinged combustion chamber door and easy-to-clean flue gas passageways make service and maintenance fast and trouble-free.

It doesn’t stop there
Our extensive product portfolio lets you take efficiency and energy savings a step further. Reduce your energy costs by integrating hot water production with your heating boiler, and manage the entire system with one of our control solutions. Or put the sun to work for you by adding a solar thermal package. With the entire system from one source, you don’t have to compromise: total system performance and additional energy savings go hand-in-hand.
**Benefits at a glance**

- Outdoor reset standard.
- Maximum heat extraction and efficiency thanks to the triple-pass heat exchanger.
- Long service life and maximum reliability with extremely durable cast iron heat exchanger.
- Clean and efficient combustion thanks to the stainless steel combustion chamber insert.
- Quiet combustion with Beckett or Riello burner.
- For additional heating system control and comfort, consider a Vitotronic control option.
- Eliminate the need for a chimney and combustion air supply opening with the direct vent option (up to VR1-33).
- Low maintenance cost with service-friendly burner and easy-to-clean flue gas passageways.

**Specifications**

- Triple-pass, sectional cast iron boiler.
- Stainless steel combustion chamber insert.
- 6 models from 91 to 245 MBH.
- A.F.U.E. rating up to 87.1%.
- Thick 3½” thermal insulation.
- Ideal for radiator, baseboard, indirect domestic hot water heating and, in some cases, in-floor heating.

*For further technical data, see back page.*

**Design for efficiency**

The triple-pass design extracts the maximum amount of heat, getting the most from your fuel dollar!

1. **Pass 1:** The burner fires into the stainless steel combustion chamber, sending flue gas to the back of the heat exchanger.
2. **Pass 2:** The flue gasses pass again through the heat exchanger towards the front of the boiler.
3. **Pass 3:** Finally, flue gasses pass through the heat exchanger to the vent at the back of the boiler.
### Technical Data

**Vitorond 100, VR1 oil-fired cast iron boiler**

<table>
<thead>
<tr>
<th>Model</th>
<th>22, 91</th>
<th>27, 105</th>
<th>33, 140</th>
<th>40, 161</th>
<th>50, 196</th>
<th>63, 245</th>
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<tbody>
<tr>
<td><strong>Rated input</strong> MBH</td>
<td>91</td>
<td>105</td>
<td>140</td>
<td>161</td>
<td>196</td>
<td>245</td>
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<tr>
<td><strong>Rated output</strong> MBH</td>
<td>80</td>
<td>92</td>
<td>122</td>
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<td><strong>Efficiency</strong> % A.F.U.E.</td>
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<td><strong>Dimensions</strong> (inches)</td>
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<td></td>
<td></td>
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<tr>
<td>Length (with burner)</td>
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<td>44</td>
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<td>Width</td>
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<tr>
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<td>33</td>
<td>39.75</td>
<td>39.75</td>
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<tr>
<td>Height (with control)</td>
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<td>44</td>
<td>50.5</td>
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<td>50.5</td>
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<tr>
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<td>445</td>
<td>447</td>
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<td>276</td>
<td>329</td>
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Technical information subject to change without notice.
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