

Oil Heating Technology
VITOROND® 100

VIESSMANN®
climate of innovation®



Gas Condensing Technology

Vitorond 100, VR1 – 91 to 245 MBH Oil-fired technology for clean, efficient combustion and durability



Oil is a precious and indispensable natural resource. As such, oil heating must be economical, efficient and environmentally friendly. Modern oil heating technology from Viessmann satisfies these demands to deliver maximum performance and comfort year after year.



The Vitorond 100 is ENERGY STAR® qualified. By choosing an ENERGY STAR® appliance, you are helping to promote cleaner air and a healthier environment.

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

Select an easy-to-use room thermostat or, for greater control and additional energy savings, choose a Vitotronic system control. Unlike conventional boilers, which operate at a consistently high boiler water temperature, the Vitorond 100 with Vitotronic 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.



- 1 Vitotronic control unit (optional)
- 2 Triple-pass heat exchanger
- 3 Stainless steel combustion chamber insert
- 4 Highly-effective 3 1/2" thermal insulation
- 5 Boiler return injector (with Vitotronic control)

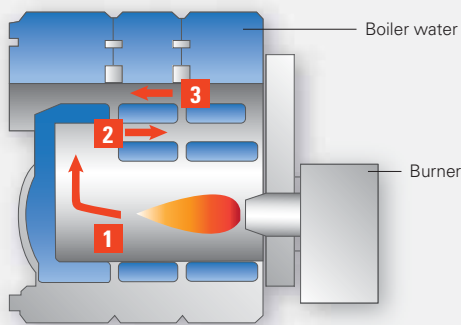


Triple-pass cast iron heat exchanger



Designed 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.

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 86.9%
- Thick 3 1/2" 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.

Benefits at a glance

- 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 greater efficiency and comfort, modulate the boiler water temperature with a Vitotronic control.
- 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.

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Technical Data



Vitorond 100, VR1 oil-fired cast iron boiler

Model		22	27	33	40	50	63
Rated input	MBH	91	105	140	161	196	245
Rated output	MBH	80	92	122	140	172	215
Efficiency	% A.F.U.E.	86.8	86.8	86.8	86.9	86.9	86.9
Dimensions (inches)	Length	41.25	47	47	38	43	48
	Width	19.75	19.75	19.75	22.25	22.25	22.25
	Height	33	33	33	39.75	39.75	39.75
	Height (incl. control)	44	44	44	50.5	50.5	50.5
Weight*	Boiler	400	477	485	533	654	775
	Beckett burner	37	37	37	37	24	24
	Riello burner	31	31	33	33	33	37

*Shipping weight

