



Riello Introduces RESIDENCE HM: New Generation of Intelligent, Energy-Efficient and High Performance Condensing Boiler

LEGNAGO (Verona), Italy, November 27, 2023 – [Riello](#) is unveiling its newly developed RESIDENCE HM condensing boiler, an exciting advance with a series of innovative technologies that elevate performance and energy savings to new levels. Ideal for current and future needs, the RESIDENCE HM is Internet of Things (IoT)-ready, hybrid-ready and 20% hydrogen-ready. Riello is a part of Carrier Global Corporation (NYSE: CARR), global leader in intelligent climate and energy solutions.

Among the core performance improvements over the previous generation model is the introduction of a high 1:10 modulation ratio, which not only supports lower gas consumption through fewer on/off operations, but also reduces carbon emissions. There is also a new low consumption modulating digital circulator with $EEL \leq 0.20$.

Riello's latest self-adaptive ACC (active combustion control) ensures the combustion runs within optimal parameters. The result is constant efficiency and emissions that remain within legislative limits at all times. Notably, the system automatically adapts to factors such as fuel type and flue length.

For the combi models, the RESIDENCE HM exhibits excellent domestic hot water (DHW) performance, even at low rates, largely due to a new DHW exchanger manufactured by Riello.

This state-of-the-art residential boiler features an attractive, easy-to-use HMI with new touchscreen digital interface, while internet connectivity via Riello's innovative 'Hi, Comfort' digital infrastructure supports full IoT networking. There is also a new room control offering elegant design and advanced integrated functions. With its integrated gateway, the control can manage up to three zones and, in the case of hybrid installation, operates as a system manager for optimal consumption. App-based control is available.

Maintaining the home comfort theme, RESIDENCE HM's noise levels start at 45 dB (model dependent), a 10% reduction on the previous-generation solution.

Riello technologies are environmentally responsible, building on the company's legacy in this area. Not only is the RESIDENCE HM compatible with hybrid systems, it also works with mixtures of natural gas and up to 20% hydrogen. Riello tests confirm that the RESIDENCE HM even can work with 100% hydrogen using a conversion kit currently in development.

"With our RESIDENCE HM we've created an exciting new mid-tier offer with major appeal for both end users and installers alike," said Roberto Manzoni, Product Manager Heating Products, Carrier Global Comfort Solutions, Riello. "All models offer Class A seasonal heating energy efficiency of 93%. With its performance, comfort, efficiency and attention to the environment, our latest boiler is ideal for the heating and DHW demands of today and tomorrow. In addition, our optional new Smart Key accessory provides connectivity and allows for remote set-up and home comfort control."

Easy installation and maintenance is another benefit thanks to a compact dimensional layout (740 x 420 x 275mm) and segment-leading weight of just 28-30kg. The boiler also comes with a fixing plate and DIN-type connections that guarantee universal installation. No calibration of gas valve is necessary, with the self-adaptive system offering easy first ignition.

Five models of RESIDENCE HM are available - three combi (KIS) and two heating only (IS) – offering power outputs of 25, 30 and 35kW. For more information visit riello.com.

- The new Riello RESIDENCE HM -



- Residence HM Front Display -



About Riello

Founded in 1922, Riello is a leading brand in manufacturing systems and technologies for heating, cooling and energy efficiency in the residential and commercial sectors and a world-wide leader in combustion technology. Headquartered in Legnago (Verona), Italy, Riello operates in over 120 countries. Riello is a part of Carrier Global Corporation, global leader in intelligent climate and energy solutions that matter for people and our planet for generations to come. For more information, visit www.riello.com

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