

INSTALLATION OF THE FIRST 100% HYDROGEN BOILER IN EUROPE!

On 25th June, the first 100% hydrogen boiler was installed in the Dutch city of Rozenburg. It was developed by De Dietrich's parent company, the BDR Thermea Group.

A joint project to create a unique installation

The project was a joint initiative between the network operator Stedin, the municipality of Rotterdam and the Ressorst Wonen housing association. The 100% hydrogen boiler has been installed in a boiler room alongside an existing conventional natural gas boiler. This combination will cover all of the heat and hot water needs of the residents at all times. Stedin is using an existing natural gas pipeline to supply the hydrogen, thereby demonstrating that the existing gas network is suitable for transporting hydrogen.

This highly innovative boiler runs exclusively on hydrogen produced by energy from solar or wind power. It emits no CO₂. As the gas supplier, Stedin is responsible for the production and distribution of green hydrogen.

This is the first residential installation in which hydrogen has been used to power a highly energy-efficient condensing boiler which will cover all the needs of its occupants.

The boiler was developed by the R&D skills centre for the BDR Thermea Group, based in Italy. Following this first installation in the Netherlands, under the brand Remeha, the boiler will be installed in the United Kingdom. The group is expecting installations to follow in other European countries, as this technology becomes more widespread.

De Dietrich: offering the best solutions for sustainable comfort

De Dietrich, the BDR Thermea Group subsidiary, has always been committed to delivering Sustainable Comfort. The development of the hydrogen boiler within the group will integrate perfectly into the complete offering of existing solutions aimed at reducing CO₂ emissions. In fact, De Dietrich already offers highly energy-efficient condensing boilers, heat pumps etc., and is currently developing the innovations of tomorrow, such as hydrogen boilers, fuel cells, and more.

Committed to the environment

According to Bertrand Schmitt, CEO of the BDR Thermea Group: *"The sustainable production of hydrogen is a very important and interesting development in terms of fuel." "The conversion of energy to gas (hydrogen) is a critical and necessary technology if we want to store the energy produced sustainably for a longer period of time, as the energy from solar and wind power is not always immediately available when needed, for example, in winter. With the new hydrogen boiler and our appliances powered by fuel cells, we are resolutely committed to making the building sector more sustainable."*

Exploring other avenues

"The operating principle behind the hydrogen boiler is the same as a boiler running on natural gas", explains Peter Snel, technical director for the BDR Thermea Group.

"In the future, we will be able to replace conventional gas boilers with hydrogen boilers on a like-for-like basis, provided that hydrogen can be supplied by gas pipelines. This is why cooperation with the network operators is a crucial importance to the BDR Thermea Group. In addition to the installation in Rozenburg (Netherlands), we are also participating in a larger-scale project in the United Kingdom. More than 400 hydrogen boilers will be installed in the next two years."

About the BDR Thermea Group

Founded in 2009, the BDR THERMEA Group is a world leading developer, manufacturer and distributor of sustainable solutions and services for smart climate control and domestic hot water solutions in residential and tertiary buildings. The BDR THERMEA Group employs more than 6500 people and operates in more than 100 countries worldwide, with a leading position in Europe, North America, Turkey, Russia and China. With a turnover of 1.8 billion euros in 2018, the group is the parent company of renowned brands such as De Dietrich, Baxi, Remeha, Brötje, Chappée and Baymak. The group is headquartered in Apeldoorn, in the Netherlands.

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