

13 March 2023

## Heat pump systems for every application

### **At ISH, Buderus presents the Logatherm WLW186i AR and WLW176i AR air/water heat pumps as flexible solutions for new and existing buildings**

Buderus introduces the Logatherm WLW186i AR and Logatherm WLW176i AR air/water heat pumps: a new generation of monobloc heat pumps in the output range from 4 kW to 12 kW (at A-7/W35), which are suited for both new and existing single-family and two-family homes and as heat and cold generators for air heating systems. The devices are operated with the natural refrigerant R290 (propane), which is much more environmentally friendly than conventional refrigerants. At ISH 2023, Buderus showcases various system solutions that use the new heat pumps or heat pump outdoor units, including, for the first time, an air heating system where the heat is circulated via air ducts.

#### **Heat pump system for existing buildings**

Heat pump heating systems are suited not only for new buildings, but under certain conditions also for modernisation projects. At ISH 2023, Buderus demonstrates this using a Logatherm WLW186i AR TP70, a Logalux SH290 domestic hot water storage tank and a combination of underfloor heating and low-temperature radiators. It is also possible to expand the system in several stages, for example by adding a photovoltaic system with battery storage system and energy manager or a Logastyle Lamina pellet stove.

Thanks to their compact dimensions, the indoor unit of the Logatherm WLW186i TP70 and the DHW storage tank can easily be installed in the same space as the previous gas boiler – a major advantage for heating contractors. Due to the low installation height of the indoor unit of only 1.2 metres in combination with the Logalux SH290, the system is also suitable for buildings with a low cellar.

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## **Heat pump system for new buildings**

For new buildings, Buderus offers easy-to-install coordinated systems. This allows trade partners to save time and complete more projects. The heat pump system for single-family homes presented at ISH is an electrified complete solution comprising a Logatherm WLW176i AR T180 with underfloor heating, the Logavent HRV176 home ventilation system, a photovoltaic system with energy storage and a wallbox for charging electric vehicles. The Buderus MyEnergyMaster energy manager ensures optimum use of the renewable electricity generated.

Heating contractors can thus offer their customers an efficient end-to-end system from a single source that requires very little space because all components of the heating system are integrated into the indoor unit with a footprint of only 0.4 square metres. The quietest Buderus outdoor unit can be installed even on the smallest plot of land as it remains well below the immission guide values of the Technical Instructions on Noise Protection (TA Lärm) at small distances to the nearest neighbouring window.

## **Heat pump with Komfort-AIRsystem**

As ventilation systems are now standard in most new buildings and the heat requirements of efficient houses have declined in recent years, the Buderus Komfort-AIRsystem may be used as an alternative form of heating. This new Komfort-AIRsystem circulates warm air through air ducts in the wall and the floor. It thus allows building owners to reduce their investment costs as a water-based heating system is no longer required. Another advantage: in combination with individual room control, the system responds extremely quickly in both heating and cooling mode.

A Logatherm WLW176i AR T180 with 5 kW provides domestic hot water and heat for the Komfort-AIRsystem presented at ISH. A Logavent HRV176 450E ventilation system distributes the air. Such a solution offers high reserve air volumes and helps prevent overly dry air through moisture recovery. This system heats up the air fed into the room to a temperature of up to about 50 °C, which ensures that the desired room temperature is reached quickly.

# Press Release

Logatherm WLW176i AR / WLW186i AR system solutions

**Buderus**



**Caption:**

The new Buderus Logatherm WLW186i AR and Logatherm WLW176i AR air/water heat pumps using propane as refrigerant are ideal for new single-family and two-family homes.



**Caption:**

The new air/water heat pumps' outdoor units with the advanced Silent PLUS technology are particularly quiet, which allows for highly flexible installation.



**Caption:**

For the modernisation of existing buildings, Buderus presents a system solution with the Logatherm WLW186i AR heat pump at ISH 2023.

# Press Release

Logatherm WLW176i AR / WLW186i AR system solutions

**Buderus**



**Caption:**

Heat pump heating systems for new buildings: Combining the heat pump with a photovoltaic system reduces system operators' exposure to rising electricity prices.



**Caption:**

At ISH 2023, Buderus for the first time presents a system solution combining the Logatherm WLW176i AR with the new Komfort-AIRsystem.



**Caption:**

The air distribution system and special air outlets feed the warm air into the individual rooms. Decentralised electric heating elements ensure individual reheating of the air.

Source: Buderus

## Meta data for your online and social media channels

The following information makes it easier for you to publish the present press release on your online and social media channels.

Use the snippets to optimise your websites for search engines, for your e-mail newsletters or to reach your readers via Facebook and Twitter.

## Search engine optimisation

- **Meta description**

At ISH 2023, Buderus presents several system solutions for new buildings and modernisation projects using the new Logatherm WLW186i AR and WLW176i AR air/water heat pumps. These are operated with the much more environmentally friendly R290 (propane) as a natural refrigerant. Another innovation is the system solution that combines a heat pump with the Buderus Komfort-AIRsystem.

- **Tags/keywords**

Buderus; air/water heat pump; system solutions; new buildings; existing buildings; photovoltaic system; wallbox

## Social media / newsletter lead

- **Newsletter lead**

At ISH 2023 in Frankfurt, Buderus presents several system solutions for various applications using the new Logatherm WLW186i AR and WLW176i AR air/water heat pumps. They are operated via a newly developed refrigerant circuit based on the much more environmentally friendly R290 (propane) as a natural refrigerant and are suited for both new buildings and modernisation projects. Another innovation is the heat pump system with Komfort-AIRsystem, which responds extremely quickly in both heating and cooling mode when combined with individual room control.

- **Facebook**

At ISH 2023 in Frankfurt, Buderus presents several system solutions for various applications using the new Logatherm WLW186i AR and WLW176i AR air/water heat pumps. They are operated via a newly developed refrigerant circuit based on the much more environmentally friendly R290 (propane) as a natural refrigerant and are suited for both new buildings and modernisation projects. Another innovation is the heat pump system with Komfort-AIRsystem, which responds extremely quickly in both heating and cooling mode when combined with individual room control.

- **Twitter**

At ISH 2023, #Buderus presents #systemsolutions for new buildings and modernisation projects using the new Logatherm WLW186i AR and WLW176i AR #airwaterheatpumps. An innovation is the combination with the Komfort-AIRsystem.

Buderus, one of Europe's strongest brands in the thermotechnology sector, is a provider of efficient and reliable system solutions for heating, ventilation and cooling. As a systems expert for heating and installation technology, Buderus is distinguished by its consulting expertise, integrated services and perfectly matched energy-efficient and connectable heating systems from a single source. The product portfolio covers everything from heat generators for liquid and gaseous energy sources to storage tanks, controls and heating accessories to a comprehensive range of renewable energy systems such as heat pumps and solar thermal systems.

All Buderus products offer maximum system compatibility, as all components are perfectly matched. This enables trade partners to install individual solutions quickly and efficiently, both in new and existing buildings, regardless of whether the system is large or small.

For more information, visit [www.buderus.de](http://www.buderus.de).

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