

13 March 2023

Air-based heating and cooling

Buderus unveils its new Komfort AIR-System in combination with a heat pump at ISH

At ISH 2023, Buderus introduces Komfort AIR-System, that intelligently combines fresh air supply, heating and cooling. An externally installed air/water heat pump provides the heat and cold for this modular system combination, which is designed for new buildings with a specific heating load of 30 W/m² or lower. Komfort AIR-System circulates warm air through air ducts in the wall and the floor and thus responds quickly to individual heating and cooling requirements. Individual room control ensures a high level of comfort. The new system, the air is heated to a temperature of up to about 50 °C. The market launch of the Buderus Komfort AIR-System in combination with an externally installed air/water heat pump is scheduled for summer 2023.

Warm air for heating

Komfort AIR-System does not transfer the heat via a water-based heating system, but through the air ducts of the heat recovery ventilation system. It thus allows homeowners to reduce their investment costs. In combination with the current generation of Buderus heat pumps, the air heating system helps achieve particularly high energy savings. The modular concept is based on a Logatherm WLW176i air/water heat pump and a domestic hot water storage tank with a volume of 180 to 400 litres. The Logavent HRV176 heat recovery ventilation system supplies fresh air on demand.

A flexible system of pre-insulated ventilation pipes and flat ducts under the screed and in the wall distributes the air in the building. The central component for heating or cooling the fresh air is a Logavent KWT160-4 Z water/air heat exchanger with 4.5 kW for heating and 1.5 kW for cooling above the dew point. A 3-way valve allows individual temperature control of two zones – e.g. ground floor and first floor. The Buderus Komfort AIR-System has two

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temperature sensors in each zone and an optional bedroom bypass permitting to keep the bedroom temperature lower. The heating register module for switching the decentralised heating elements on and off is installed in the heating system's fuse box. Nine relays for eight rooms or optionally even up to 16 rooms are available. The ModBus connection for the Logavent HRV176 heat recovery ventilation system is also located here. For commissioning and servicing, the heating elements can be switched on manually.

Decentralised electric heating elements

The warm air flows through the ducts to the individual rooms and can be reheated as required by electric heating elements installed in the individual special air outlets. The heating elements are connected to the heating register module via a 230V connection. The air outlets may be located in the wall or in the ceiling. If the system is used for cooling in summer, the integrated dehumidification function ensures a pleasant room climate. Heating contractors benefit from the straightforward installation and commissioning of the system solution with a uniform operating philosophy. Installers are already familiar with system components such as the heat pump, ventilation system and control units, and the filters can be replaced without tools.

Convenient system control

With the Logamatic BC400 system control unit of the heat pump, system operators can conveniently control the heating system and change settings. The wired Logamatic RC220 system control unit can be used to remotely control the heat pump and ventilation system, set it to Standard, Eco and Comfort mode and select a central time programme. It can also be used to control the decentralised heating elements in all rooms.

The Logamatic RC100.2 H room control unit offers a high level of comfort. Residents can use it, for instance, to set the target temperature in the individual rooms, deactivate the heating element in the respective room and check the current room temperature. In addition, the MyBuderus app enables users to control the system via their smart phone whether at home or on the move.

Press Release

Komfort AIR-System

Buderus



Caption:

In summer 2023, Buderus will launch Komfort AIR-System combined with the Logatherm WLW176i air/water heat pump.



Caption:

Looks good in the utility room, too: the new Komfort AIR-System from Buderus.



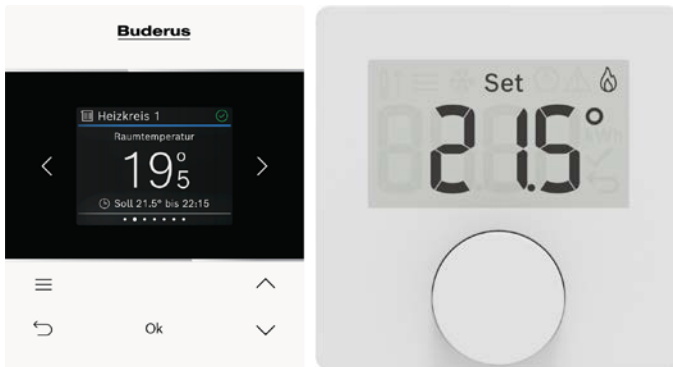
Caption:

Air ducts and special air outlets in the ceiling or in the wall feed the warm air into the individual rooms. Electric heating elements ensure decentralised reheating of the air as required.

Press Release

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Caption:

System operators can control the Komfort AIR-System with the Logamatic RC220 system control unit or with the Logamatic RC100.2 H room control unit.

Source: Buderus

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- **Meta description**

In summer 2023, Buderus will launch Komfort AIR-System, that intelligently combines fresh air supply, heating and cooling. An internally or externally installed air/water heat pump with a domestic hot water storage tank provides the heat and cold for the system.

- **Tags/keywords**

Buderus; heating; cooling; heat pump

Social media / newsletter lead

- **Newsletter lead**

At ISH 2023, Buderus introduces Komfort AIR-System, that intelligently combines fresh air supply, heating and cooling. An externally installed air/water heat pump provides the heat and

cold for this modular system combination. The air heating system responds quickly to individual heating and cooling requirements. The option of individual room control offers residents a high level of comfort. The market launch of the Buderus Komfort AIR-System in combination with an externally installed air/water heat pump is scheduled for summer 2023.

- **Facebook**

At ISH 2023, Buderus introduces Komfort AIR-System, that intelligently combines fresh air supply, heating and cooling. An internally or externally installed air/water heat pump with a domestic hot water storage tank provides the heat and cold for the modular system combination. The air heating system responds quickly to individual heating and cooling requirements. The option of individual room control offers residents a high level of comfort. The market launch of the Buderus Komfort AIR-System in combination with an externally installed air/water heat pump is scheduled for summer 2023.

- **Twitter**

In summer 2023, #Buderus will launch its first Komfort AIR-System. In combination with a #heatpump, the system can heat and cool rooms. The air is distributed through ducts in the wall or floor and reheated decentrally.

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.

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