

# Build on Uponor with Comfort Air

Maximum comfort through the combination of radiant heating/  
cooling with controlled ventilation of living spaces

BUILD ON  
**Uponor** 100  
YEARS

**NEW**

- ✓ Comfort heating/cooling: Heating, cooling and ventilating all in one
- ✓ Efficiency and energy saving
- ✓ Short response times
- ✓ Fast installation on the Pluggit PluggFlex ventilation system

# Uponor Comfort Air – comfort heating/cooling that meet the highest standards

Uponor Comfort Air combines the advantages of radiant heating/cooling and the ventilation of living spaces. The system consists of a panel element with integrated ventilation ducts, which is integrated into the Uponor Klett underfloor heating system and connected to the Pluggit living space ventilation system using plug-in technology. The heating and cooling output can be adjusted by the number of Comfort Air panels to the required heating and cooling load while considering the required supply air flow rate.

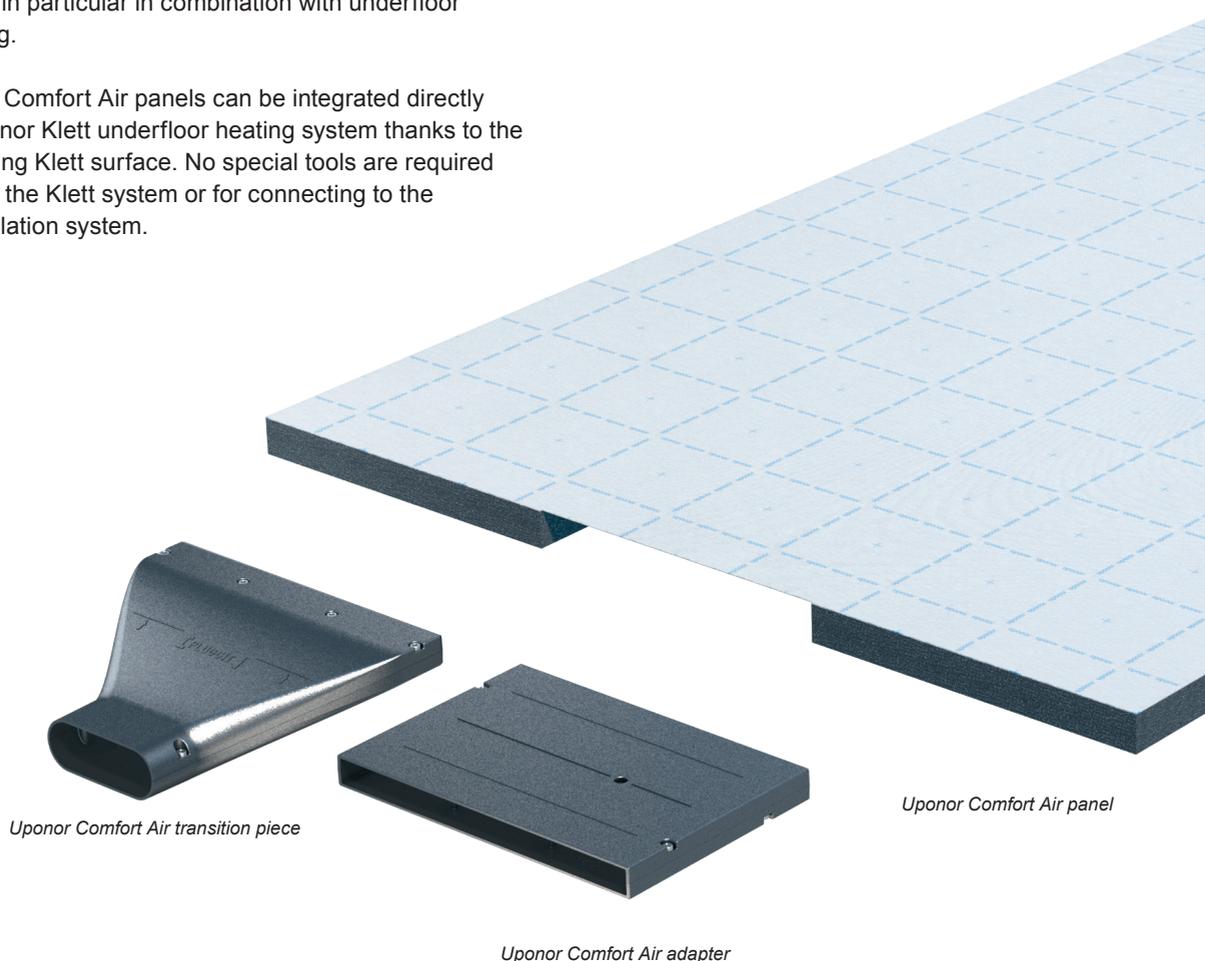
 When the system is used for heating, the supply air in the Comfort Air elements is preheated to room temperature.

 When cooling is required, the elements allow the draught-free entry of the cooled supply air into the room, in particular in combination with underfloor cooling.

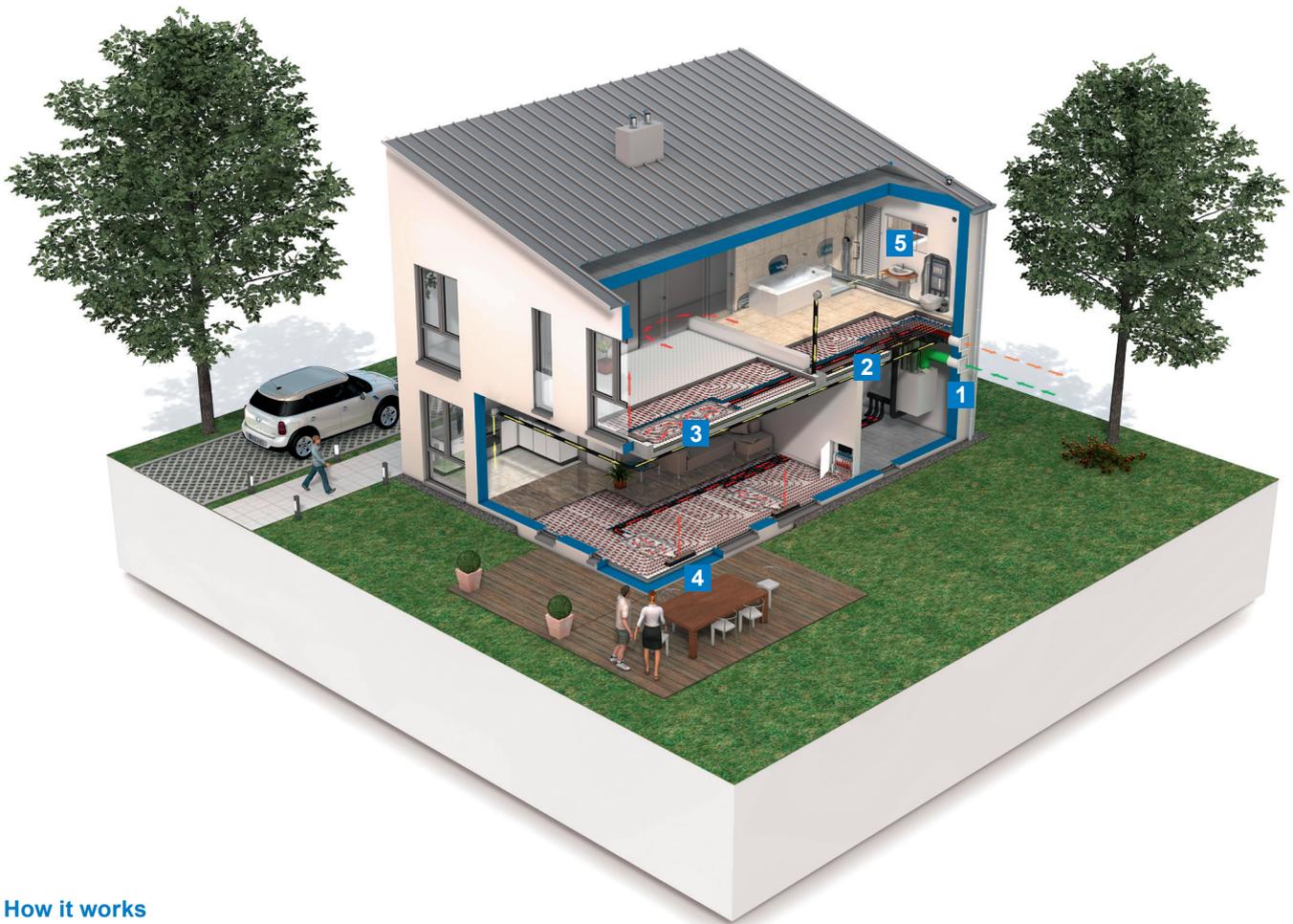
The Uponor Comfort Air panels can be integrated directly into the Uponor Klett underfloor heating system thanks to the screed-sealing Klett surface. No special tools are required for installing the Klett system or for connecting to the Pluggit ventilation system.

## Uponor Comfort Air

- Combined heating and ventilation system with significantly increased comfort thanks to draught-free and silent heating, cooling and ventilation
- Improved system technology to avoid interface problems on the construction site
- Simple plug-in adapter for connecting the Uponor Comfort Air panel to the Pluggit ventilation ducts
- Easy to clean and therefore hygienic
- Safe to operate and corrosion-free thanks to the all-plastic pipe system



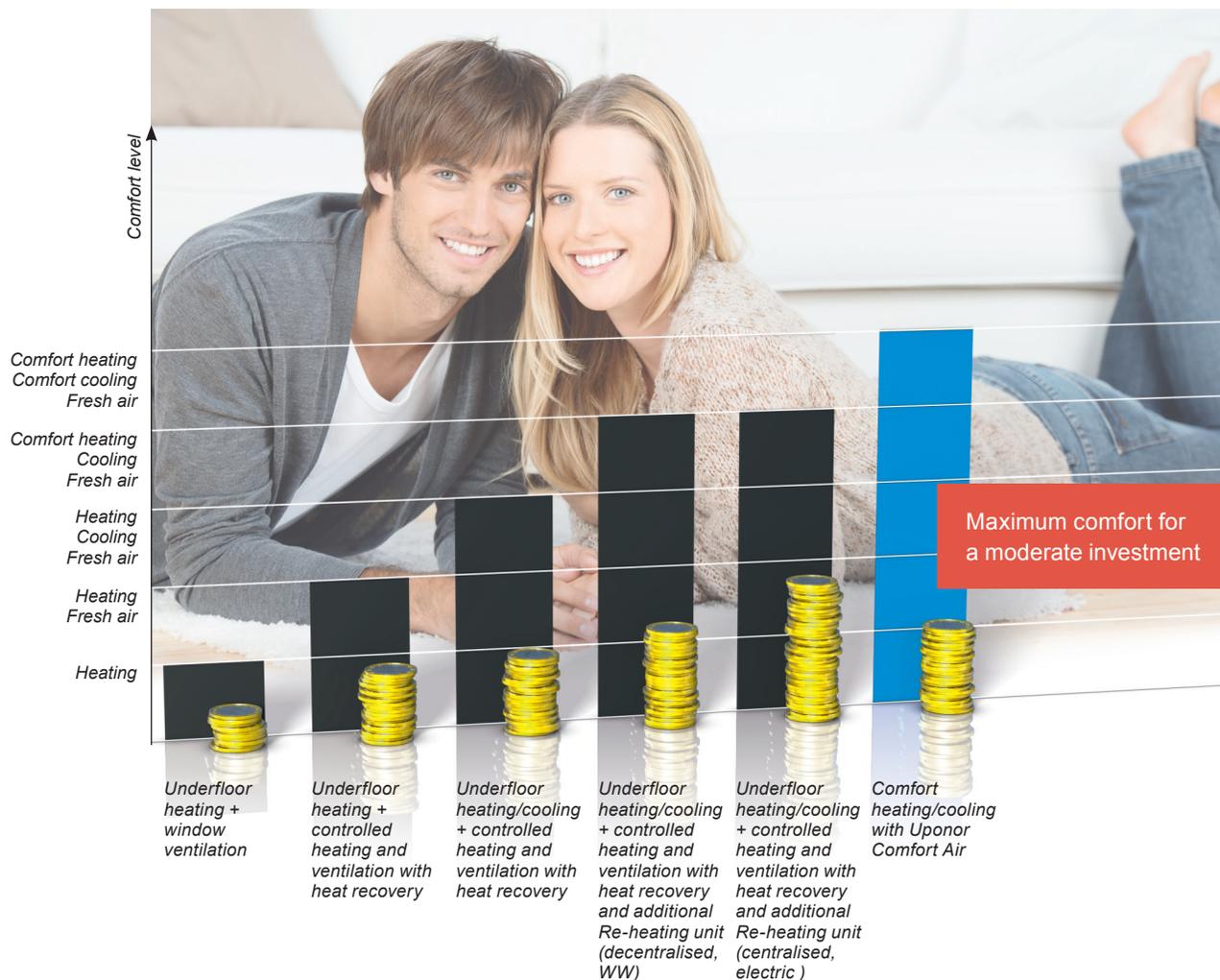
# Uponor Comfort Air combines radiant heating/cooling with the ventilation of living spaces



## How it works

- 1** Outdoor air is drawn in at the outer wall. A cross-flow heat exchanger heats this supply air with the heat from the exhaust air and thus makes a significant contribution to energy saving.
- 2** The preheated supply air is routed to the Uponor Comfort Air panel via the patented PluggFlex ducts and hoses beneath the standard radiant heating system.
- 3** The Uponor Comfort Air panel acts as a Re-heating unit. As the air is guided along the heated screed surface, it raises the air temperature to room level.
- 4** Fresh air flows into the living rooms or bedrooms via Pluggit air diffusers in the floor or on the wall.
- 5** In the rooms that require exhaust air ventilation, such as the kitchen, toilet and bathroom, the air is drawn away by overcurrent from other rooms. The exhaust air is routed back to the ventilation unit with heat recovery via air inlets in the ceiling or the wall.

# Highest level of comfort with comparatively modest investment



## Uponor Comfort Air is installed along with the ventilation ducts



Uponor Comfort Air is installed together with the Pluggit Pluggflex ventilation ducts. The corresponding adapters enable professional integration into the ventilation system.



The intermediate spaces are filled with Uponor KLETT panels and the underfloor heating pipe is laid quickly and easily over the entire area of the room.

# Optimum system components from reliable brands



## Uponor Comfort Air Klett Panel

as a connecting element between the Pluggit PluggFlex duct system and Uponor Klett, consisting of an EPP element covered with a metal plate. Surface covered with Klett foil for fixing the Uponor heating pipes

Art no	l1 mm	b mm	d mm
<b>1090715</b>	1200	800	30



## Uponor Comfort Air connectors

Connectors for joining two Comfort Air elements

Art no	l1 mm	b mm	d mm
<b>1090716</b>	170	250	20



## Uponor Comfort Air transition piece

as a transition from the Uponor Comfort Air Klett Panels 1090715 to the Pluggit supply air duct system PK150

Art no	H mm	B mm	L mm
<b>UPA250</b>	74	250	200



## Pluggit PluggFlex duct

for supply air and exhaust air

Art no	H mm	B mm
<b>PK150</b>	50	113



## Pluggit central supply air distributor

consisting of a PluggFlex duct DN150, complete main distribution unit and straight distribution modules for PK150

Art no			
<b>SL150-1</b>			
<b>VT500</b>			
<b>VT530</b>			



## Pluggit Komfort ventilation equipment for living spaces

with heat recovery

Art no	H mm	B mm	T mm
<b>AP190</b>	1,000	600	430
<b>AP310</b>	1,050	700	603
<b>AP460</b>	1,050	700	755

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