



advertendo®

# LIVING EFFICIENCY

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Learn all about  
our systems.



Residential Plus is the perfect answer for multi-residential buildings with centralized systems. It includes advanced technologies that optimize energy consumption and simplify operation of heating and cooling solutions, water management and electronic controls.





### Air venting and system filtration

The efficiency of **heat pumps and generators** can be compromised by the presence of air and impurities dissolved in water, which contribute to corrosion and scaling on heat exchangers, pumps, valves, and energy meters. Giacomini's air venting and filtration solutions—including magnetic filters, dirt separators, and combined dirt and air separation systems—are designed to prevent these issues, protecting the whole system and ensuring **optimal performance** throughout the system life cycle.

### Hydronic balancing

Balancing hydronic systems is essential for their proper functioning, as recommended by ISO EN 52120-1 and EN 1264-4 standards. Giacomini's static and dynamic balancing valves, as well as the built-in DB manifold, ensure precise control of flow rates and differential pressures. These devices ensure **correct distribution** of the thermal fluid, transforming the design into an **efficient and easy operation system**, even in complex installations.

### Radiant systems

Compliant with EN 1264 standards, Giacomini's radiant systems are suitable for both renovations and new construction. The low-thickness, pre-formed panels can be installed on floors, walls, or ceilings. Paired with pipes ranging from 12 to 17 mm in diameter, these systems are characterized by **low thermal inertia**, allowing quick response to temperature variations, thus enhancing **efficiency** while reducing operational costs and **environmental impact**.

### Hydronic module for HVAC systems with HDW production via booster

Designed for two- and four-pipe systems, this compact hydronic module allows for **simultaneous management** of heating/cooling and domestic hot water production, supplying a water-to-water heat pump booster. This solution ensures excellent coefficients of performance (COP) in both heating and cooling modes, and enables cooling energy recovery during hot domestic water production when the cooling system is operating.

Bosco Verticale / Milan / Italy

**Residential Plus is Giacomini's business solution designed for multi-unit residential settings, such as condominiums and complexes, where heating and cooling systems are centralized.**



### ① R589HPW



#### Booster hydronic unit

Engineered to efficiently and easily manage heating/cooling and hot domestic water production in centralized systems with heat pumps.

- ⊕ Efficient
- ⊕ Versatile
- ⊕ Compact

### ② HPWB

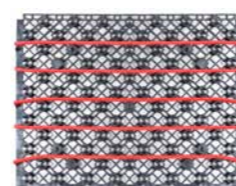


#### Hot domestic water heater with built-in water-water heat pump

The booster exchanges heat with the main distribution network ensuring hot domestic water production with minimal energy consumption.

- ⊕ Energy saving
- ⊕ Easy installation
- ⊕ Extra silent

### ③ R979S



#### Thermoformed panel for radiant floor systems

The Spider panel is a 3D mesh made of high-strength polypropylene. Its low height makes it suitable for both renovations and new construction.

- ⊕ Reduced thickness
- ⊕ Quick and simple installation
- ⊕ Low thermal inertia

### ④ R553FK



#### Preassembled manifold kit

Preassembled brass manifold kit for HVAC systems, featuring flow meters. Connection for copper, plastic, or multilayer pipe adapters.

- ⊕ Multifunction valves
- ⊕ Insulation available
- ⊕ Compact design

### ⑤ R585CS



#### Modular manifold for domestic water distribution

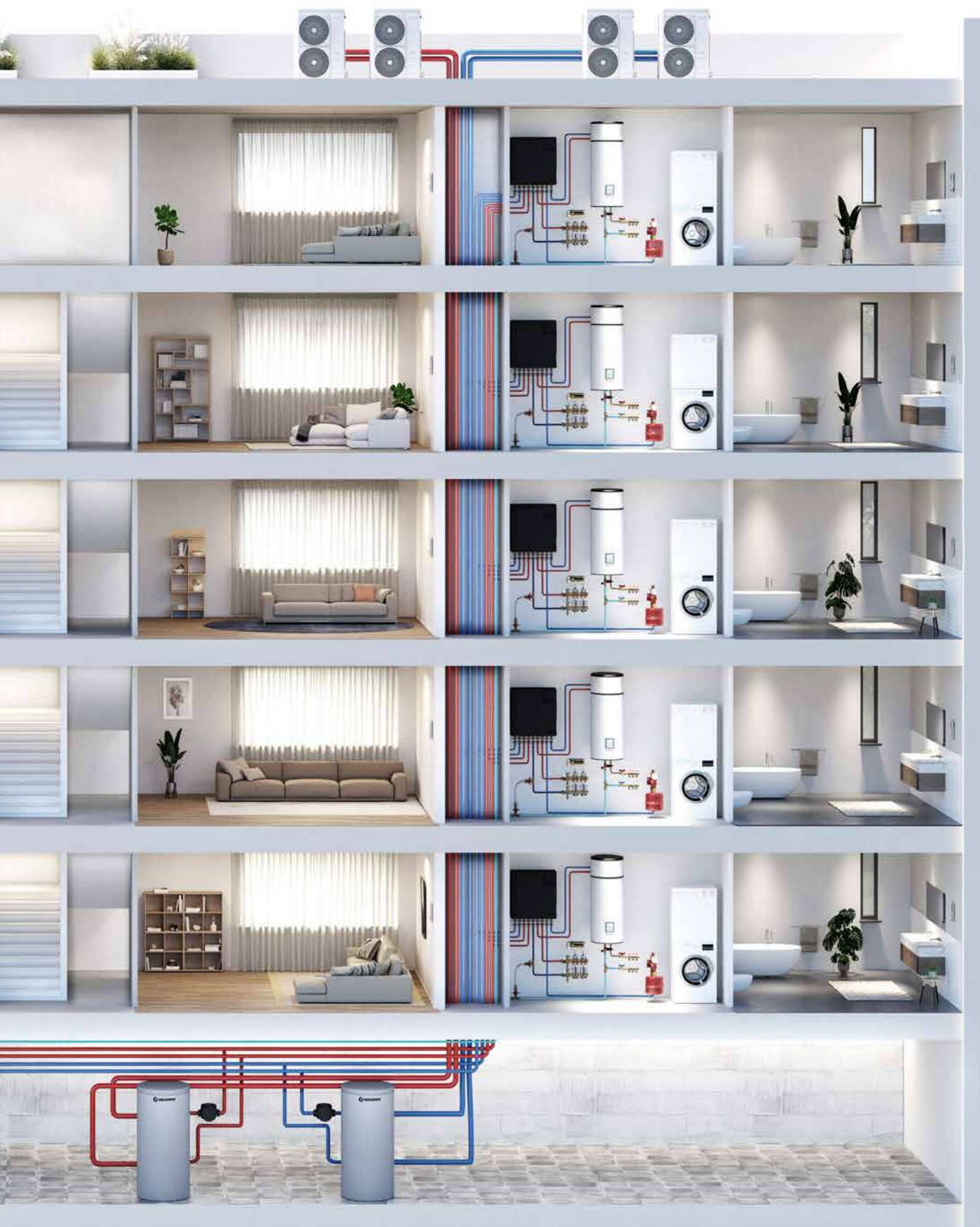
Equipped with shut-off valves, phased threads, sealing O-rings and identification plates for different outlets.

- ⊕ Phased threads
- ⊕ Tool-free assembly
- ⊕ No PTFE or hemp needed





## Residential Plus technical solution | hero products



## Residential Plus: core and supporting systems

### ➤ Radiant systems



**KPM22**  
Electronic controls

Radiant floor  
and wall system



Radiant plasterboard  
ceilings

### ➤ Boiler room components, air venting, and filtration



**R74M** Magnetic filter

**R146C**  
Magnetic dirt separator



**R87CK**  
Air and air-dirt separator  
with adjustable connection

**R87CMK**  
Version with magnet

### ➤ Hydronic balancing components



**R411DB**  
Angle valve with thermostatic option  
with dynamic flow balancing



**R206B**  
Static balancing valve



**R206C**  
Differential pressure controller



**R206A**  
Pressure independent  
control valve (PICV)



**R274C**  
Compact 6-way zone valve



**R553FPDB**  
Preassembled manifold kit in technopolymer,  
with dynamic flow balancing

