

ENGINEERING
TOMORROW

Danfoss

Modern heating technology for social housing providers

Increase the energy efficiency of your multi-family building

Energy-efficient and reliable heating solutions.

Up to **23%**
energy savings
thanks to intelligent
thermostats,
temperature control
and hydronic
balancing.



As a resident, I expect
affordable living with
plenty of comfort

*“ Affordable rent
and utilities with
no surprises ”*

*“ Individual temperature
zones – anytime,
everywhere ”*

*“ Modern building
services – that I don't have
to worry about ”*

*“ No noises from the heating
system – and all the radiators
give off heat! ”*

*“ Modern heating
technology that gives the
environment a break ”*

“ Accurate billing ”





As the owner I expect
profitability and
satisfied tenants

“ *Stable costs during the
planning and implementation
of renovation and
new-build projects* ”

“ *Lowest possible
investment with
rapid payback* ”

“ *Long-term value
retention: easy to rent,
easy to sell* ”

“ *Satisfied tenants:
no complaints due to
noise or undersupply to
individual radiators* ”

“ *Reliable heating
technology – easy to
operate and easy to bill* ”



Radiator Thermostats

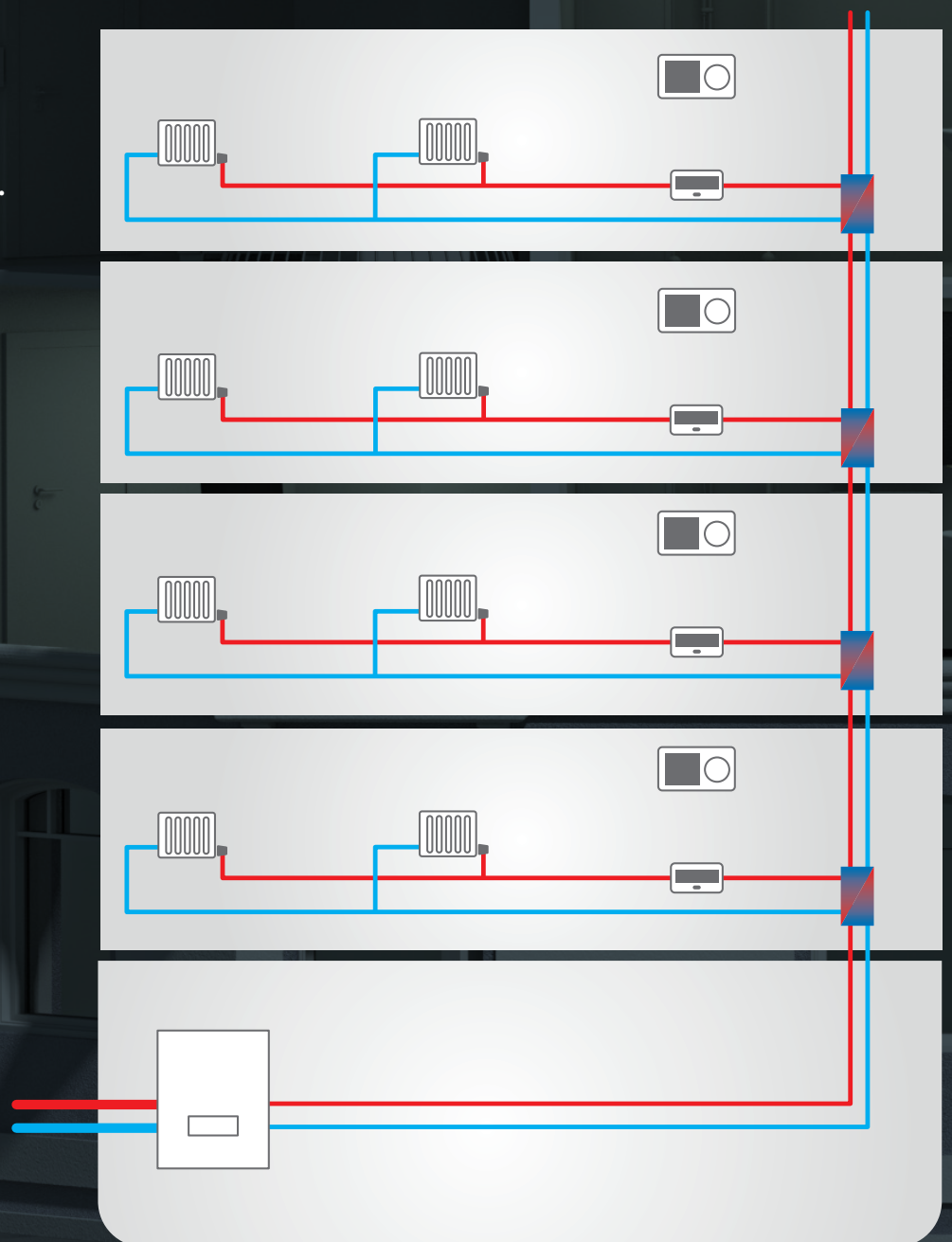


Programmable room thermostats

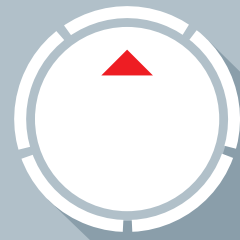


SonoSelect/Safe Energy Meters

Communal heating with accurate billing in each property, programmable room thermostat and TRVs for individual room control.



More comfort, less effort with intelligent temperature control



Room temperature control and intelligent heating



Upgrade your building

Modern temperature control enhances the living comfort of your property, improving your chances of renting or selling it at an attractive price.

Renovate with ease

Defective or missing thermostats can lead to tenants withholding rent. Replacing or installing thermostats is easily done, even when residents are at home.

Independent tests have shown that lowering the home comfort temperature by just one degree can reduce energy consumption by as much as 10%.



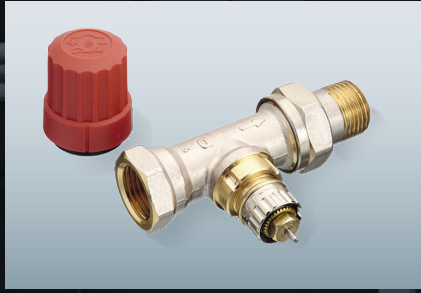
I want to set the temperature in every room individually - and I want the temperature to stay constant even when the weather outside changes.



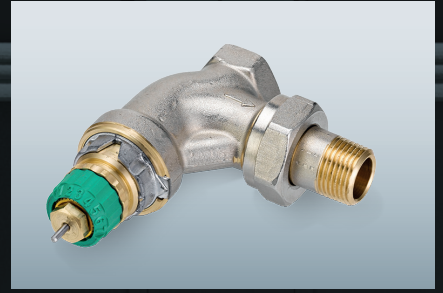
I want an attractive, easily rented property with satisfied residents who feel good in their homes.



Ensure constant differential pressure in all risers with ASV ¹⁾.



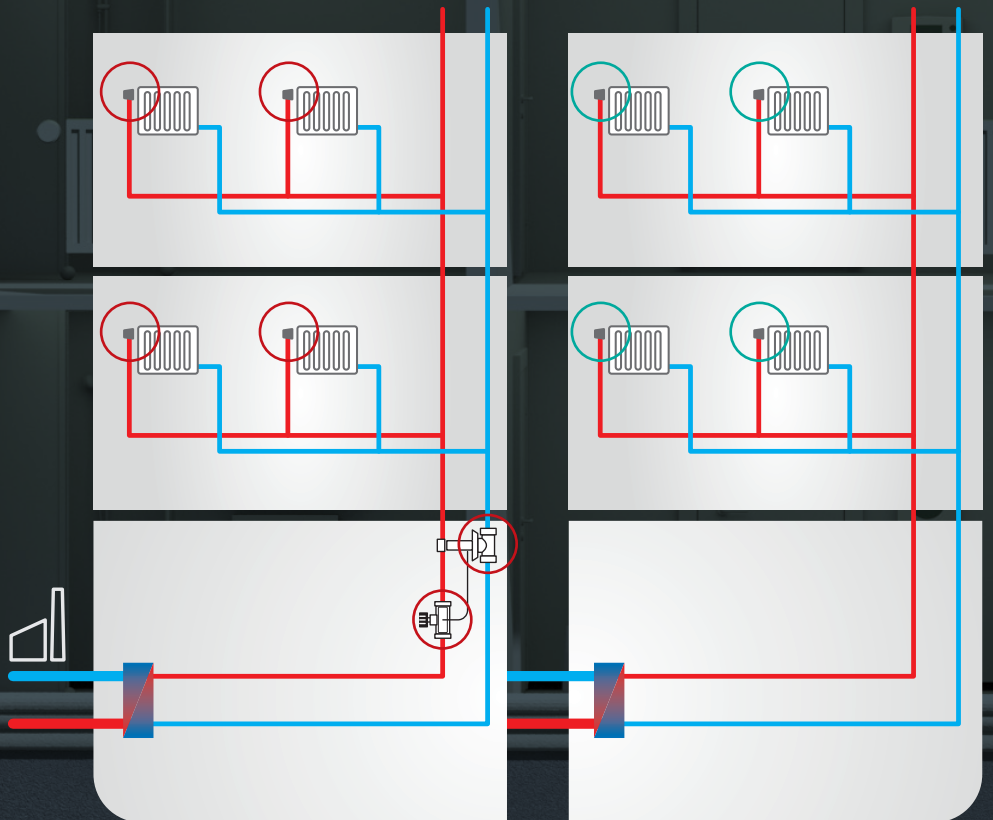
Ensure design flow per radiator with RA-N pre-setting valves.



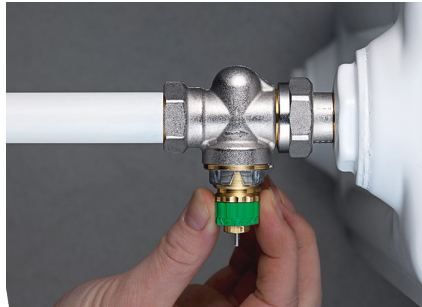
Ensure constant differential pressure and design flow per radiator with *Dynamic Valve*™.

Automatic balancing solution with riser-mounted ASV and radiator-mounted RA-N valves.

Automatic balancing solution with radiator-mounted *Dynamic Valve*™.



Noise-free heated radiators thanks to **hydronic balancing**



Hydronic balancing of heating systems

No complaints

Heating systems that have undergone precision hydronic balancing avoid both annoying flow noises and undersupply of individual radiators, letting everyone sleep soundly.

Reduce utility costs

Heating systems with effective hydronic balancing via controlled pumps, differential pressure controllers and presettable thermostatic valves also consume less energy. This reduces heating and utility costs.

The most common complaints from residents concern flow noise and under- or over-heated radiators. Both are typically caused by a poorly balanced heating system. Automatically balanced heating systems eliminate the main cause of these complaints.

Depending on your heating system, you can choose between riser-mounted automatic balancing valves combined with pre-setting radiator valves, or radiator mounted pre-setting valves with a built-in differential pressure controller.



I expect every radiator to emit heat and I don't want annoying noises from the system keeping me awake at night.



I don't want any complaints due to flow noise or undersupply of individual radiators.



District heating substations with electronic controllers

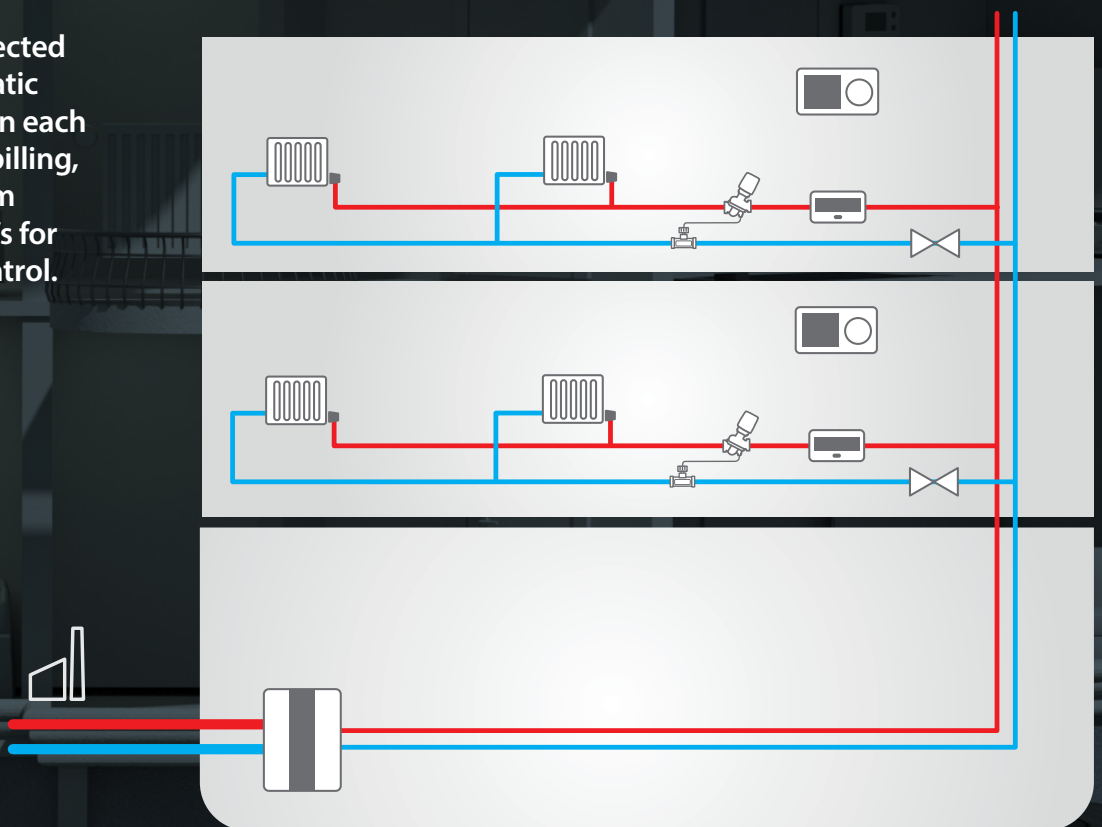


Thermostatic radiator valves and electronic room controls



SonoSelect/Safe Energy Meters

Heat network connected system with automatic balancing solution in each property, accurate billing, programmable room thermostat and TRVs for individual room control.



Modern heat supply – **flexible,** **reliable,** and **future-proof**



Central supply with one or more energy sources



District heating

District heating is an environmentally friendly source of energy. It does not emit exhaust fumes or pollutants at the point of use. It doesn't require a gas tank, oil tank, boiler or heater. All it needs is a substation. This separates the supply network and the building installation and efficiently transmits the district heating.

Individual time and temperature control in properties with programmable room thermostats, accurate billing with energy meters, and FJVR to meet strict requirements for return temperature in these kinds of systems.

For the sake of my family's future, I want to use affordable and environmentally friendly heating sources at all times.



I want to be flexible in my choice of energy sources so that I can react to price changes and fulfill both legislative requirements and the wishes of my residents.



We offer energy-efficient solutions for all common heating systems, including radiator-based and floor heating systems for all new-build and renovation projects. We offer a full range of products to accurately meet

the requirements of any specific system, some of which are shown here. Find out more at www.heating.danfoss.co.uk Please contact us to have a Danfoss expert advisor assist you in planning your project.



Plate Heat Exchangers



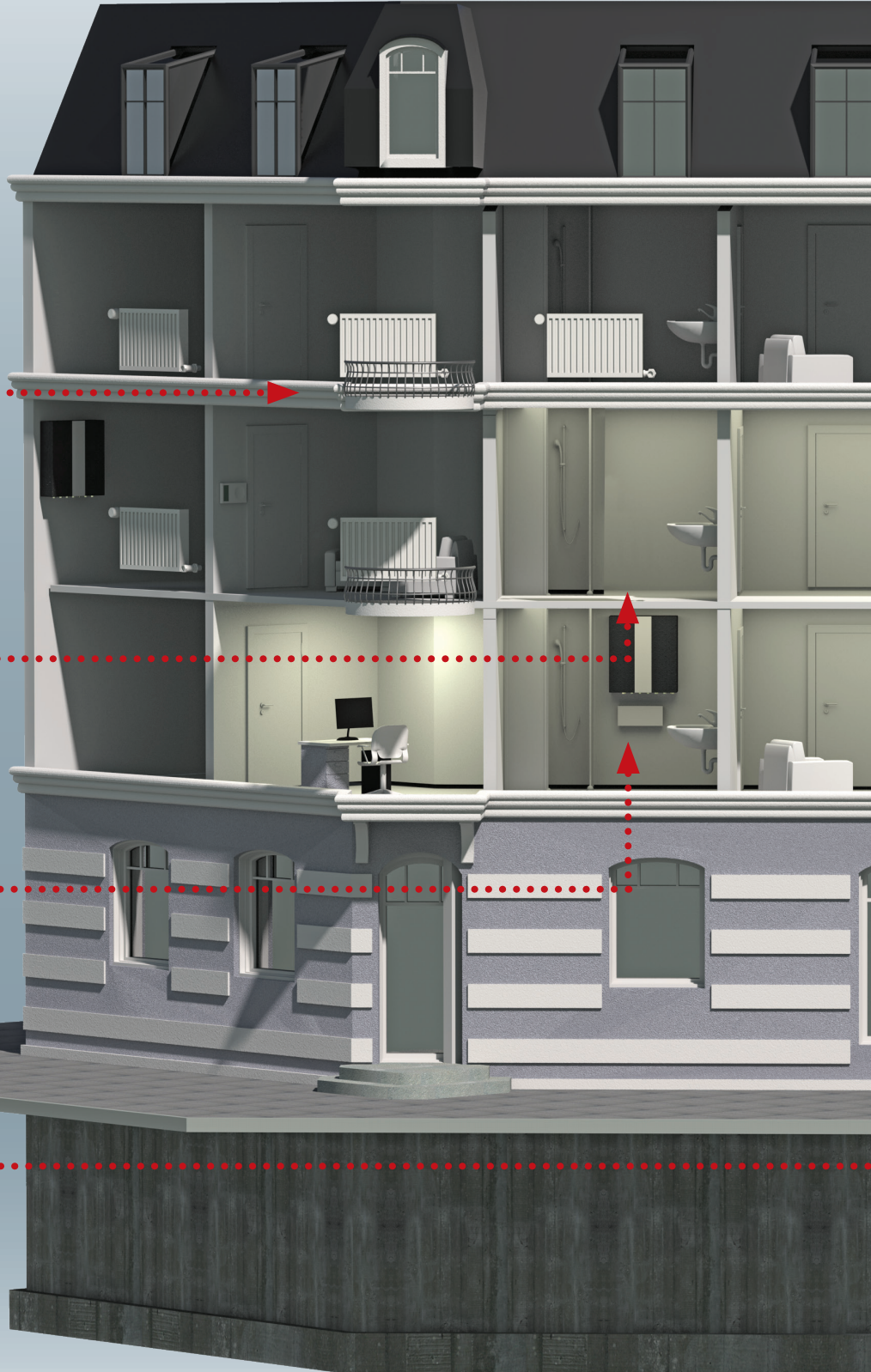
Electric Floor Heating Controls



Energy Meters



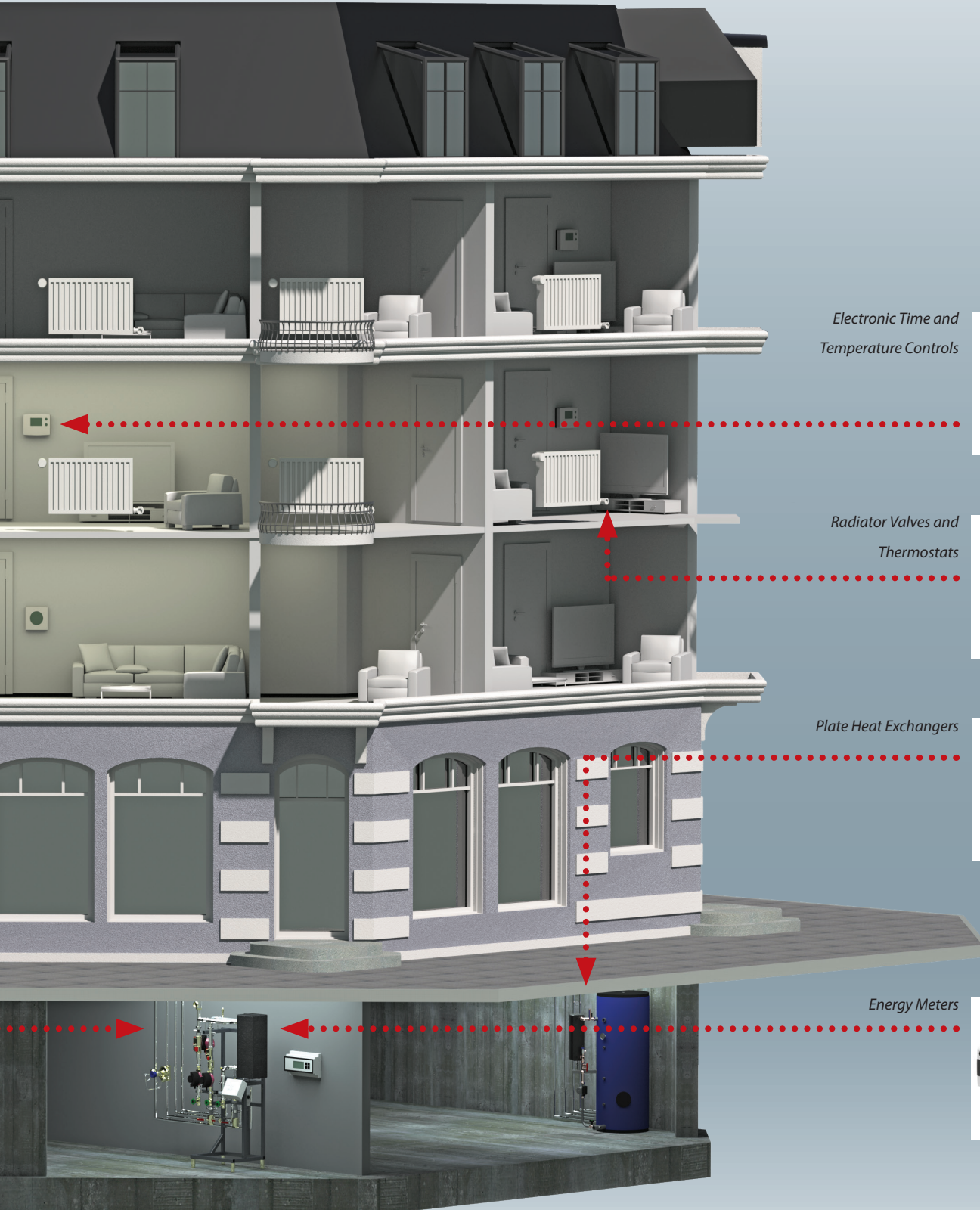
Sub-Stations



Sample applications for new buildings and renovations



Proven solutions for your system



*Electronic Time and
Temperature Controls*



*Radiator Valves and
Thermostats*



Plate Heat Exchangers



Energy Meters



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