

Energy efficiency you can feel.

The optimum hydraulic balancing alone saves up to 25% energy. And also the drive unit is only ever activated when an adjustment is made, but then saves a whole 50% compared to other systems.

Pleasure from the system.

All components are hand-picked by Simplex. This ensures consistently high quality and allows for perfectly coordinated assemblies. This is the root of long operational safety.

Increased comfort.

With the unique Change Over function, the heating and cooling loads can be entered separately. This improves the regulation behavior and significantly increases comfort.

On your marks, get set, smile!

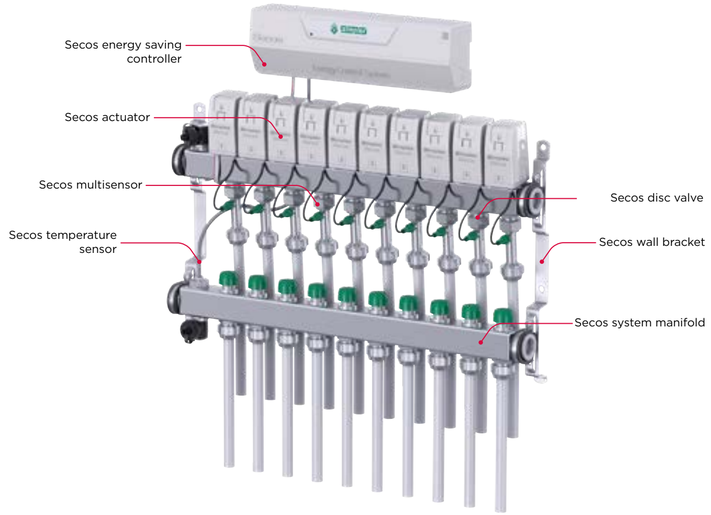
Fast installation and commissioning via plug & play. Pre-assembled plug-in assemblies and cabling and automatic flushing, filling and venting save a lot of time. The commissioning is even faster with the app where the configuration is performed with links.

The more flexible it is,the happier you are.

Everything is possible, nothing is compulsory. You are completely flexible with both the type of installation system and floor structure as well as with the room thermostats. You are not tied in to a specific manufacturer. A BMS interface and smart home option are included

Simplex Secos
the system

Simplex Secos is a unique energy control system for surface temperature control, where the flow rate and temperature are continuously recorded and optimally controlled. This means that no circuit control valves are required. Secos stands for economical energy consumption and positive emotions.
It is suitable for both new buildings as well as for renovations



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Simplex Secos

Simplex Energy Control System
for surface heating

NEU Unique Change Over Funktion



that's excellence.

cera disc valve technology
cost ecology

simplex
A GERMAN BRAND

aalberts hydronic flow control

Simplex Secos

Its performance puts a smile on everyone’s face.

Planners, installers and builders have waited a long time for this

Poorly balanced systems are a thing of the past. Instead, the highest level of control, the best heat distribution and maximum energy savings in a single system.



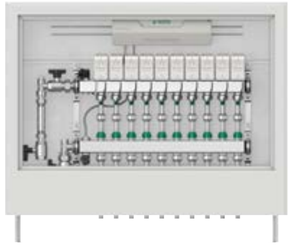
cera disc valve technology
cost ecology

The newly developed sensor-controlled Simplex valve technology makes this possible. For the first time, it provides fully automatic and dynamic hydraulic balancing and a precise heat supply to meet the demand.

In a nutshell: everything is perfectly controlled.

at one glance

- Automatic, dynamic, hydraulic balancing.
- Up to 25 % energy saving.
- Long service life through wear-free ceramic disc valves.
- BMS interface and smart home options.
- Change-over function; separate input of heating and cooling load.



the ideal solution

It’s time to say goodbye to poorly balanced systems. And hello to optimal control accuracy, ideal heat distribution and maximum energy saving in a single system. **Simplex Secos** is a groundbreaking system of temperature control for indoor spaces which also **continuously records and optimises** flow rates and temperatures. This also makes it possible to dispense with circuit control valves.
Secos is the byword for value in energy consumption and positive experience. It is ideal for both new buildings and the renovation of old properties

- For heating and cooling.
- Secos - leading the way in installation technology, control performance and comfort.
- Cleverly combining hydraulics and electronics.

set separate cooling capacity

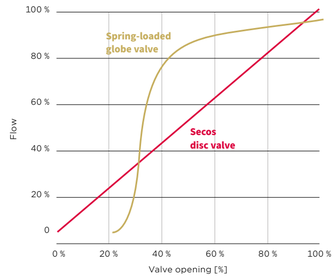
So far, a performance setting for heating and cooling has been used. However, higher flow rates are required for cooling than for heating..

The new **“Change-Over”-Function** allows to set individual cooling performance per room, which contributes to increased comfort.

Unique in the market!

the intelligent details

- Ceramic Disc Valves.
- Multi sensors for precise volume flow and temperature measurement.
- Automatic flushing.
- Compatible with all commercially available230V Room thermostats.
- Integrated cabling.
- Valve and pump protection functions



the digital conversion

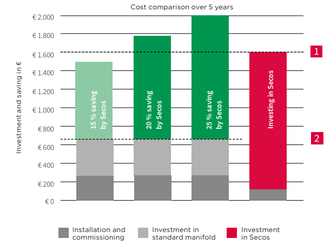


Operation and commissioning can be conveniently started from the tablet or mobile phone. All settings, including operating parameters and allocation of heating zones to the various Secos actuators, can easily be adjusted using the Flamconnect app.

Additional functions, such as automatic flushing functions for convenient filling and venting, can also be launched using the app.

Secos can also be used to integrate Smart Home capable room thermostats.

the convincing economy



Assumption: Apartment 84 m2. Heating costs € 11,30 m2 / year.
Installation & Commissioning time (rate € 60,- / hour): with standard manifold = 4 hours, with Secos = 2 hours

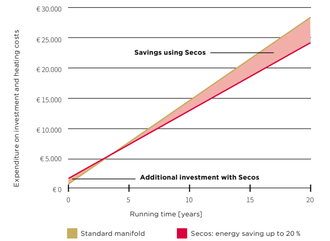
1 Break-even-Point 2 Installation- and operating costs with standard manifold.

Payback after 5 years

The system with permanent hydraulic balancing makes it possible to save up to 25% energy costs in comparison to standard solutions on the market.

The additional costs for the Secos system will be recouped after about 5 years and an assumed energy saving of 20 %.

You will also benefit from faster installation and commissioning and from satisfied customers.



Assumption: Detached house 110 m2. Heating costs € 12,50 m2 / year.
Installation & Commissioning time (rate € 60,- / hour), costs included.

Sustainable investment

Depending on the percentage of energy saved, the capital invested will be multiplied and become available to the owner. The investment in Secos will ensure that you are protected to some degree from further increases in heating costs. Secos satisfies all the technical requirements for local subsidy regulations and funding eligibility.

More information:
www.bafa.de oder www.kfw.de