



# #energiespeicher

**Leading the way for the  
necessary social change.**

**Raum-K opens up  
possibilities for archi-  
tects, builders and  
planners of the future.**

We have the answers to how previous  
energy consumers can be turned into  
energy providers and how buildings can  
be used in a climate-neutral way.

Our mission unites, connects, multiplies  
knowledge and transforms it into a new  
climatic era in which people are aware of  
their responsibility and benefit hand in  
hand from and with each other.

Armin Bühler  
Founder and developer from Raum-K

# #energieverstehen

Photos: unsplash

We are working on the energy community  
in which everyone - from homeowners  
to housing associations - becomes part  
of the sustainable energy and heat tran-  
sition. Our motivation for the large-scale  
building-storage concept is an energy  
bonus solution designed by individuals,  
that has the potential to bring about  
much-needed social transformation.  
change that is urgently needed.

**Are there any unanswered questions?  
We will gladly help you.**

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## VISION

### Surface temperature control – inside and out understanding

Raum-K is the heating and energy system of the future. As main starting point for resource-efficient, healthy and renewable energy, it creates a unique link between the building mass as an energy store and surface heating and cooling in a single building component: the flexible, modularly expandable climate ceilings from Raum-K. For series renovations according to the energy-sprung principle and for sustainable new construction projects.

## MISSION

### Reducing climate change through the heat transition

Raum-K is the place in which innovative and climate-neutral complete systems ensure a healthy and pleasant indoor climate: through value-creating synergies with like-minded business partners and people who think, understand, plan and build for the future. This makes us the pioneers and energy providers of the present and the future.

## POTENTIAL

### Climatic ceilings can do both: heating and cooling.

Up to now, cooling has been used far too sparingly, or balanced with an additional air conditioning unit.

Reversible heat pumps offer ideal conditions for a comfortable indoor climate all year round and maximum energy efficiency. Climate-controlled ceilings enable this potential and prepare the building for the increased cooling demand that we can expect in the course of climate change.

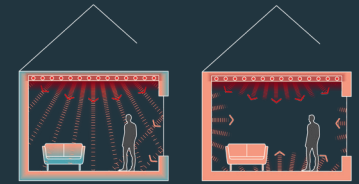
## PARTNER

### Energy source and multiplier for the heat transition in the present and future.

By working together with business partners, Raum-K offers a value-creating synergy that brings maximum benefit on the market and an enormous turnover potential for all involved. This significant value chain provides the basis for our joint future energy budget.

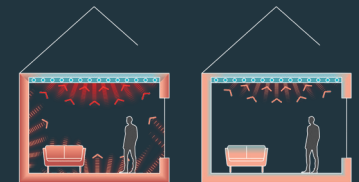
## HEATING

Heating with radiant heat instead of convection: All surfaces in the room are warmer than the room air. Like the ceiling, they radiate evenly and gently into the room.



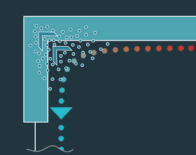
## COOLING

The ceiling surface absorbs the room heat and dissipates it via the cooled down water. The radiation exchange between the ceiling and the warm surfaces ensures that the walls, floor and furniture decrease in temperature.

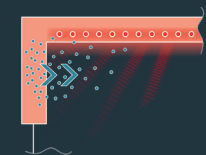


## HEALTHY BREATHING AIR

### Soothing: climate-controlled ceilings actively prevent mould growth and moisture in the walls.



If the air is warmer than the surfaces, it cools down on them. This increases the air's humidity and allows moisture to penetrate the walls.



If the air is cooler than the enveloping surfaces, it warms up on them. This causes water to evaporate: the wall dries.

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