

Cooling technology components by AVS Römer

# Into the future of e-mobility with ef cooling



**Success Story**  
ef cooling Ernst H. Furrer AG

## Liquid cooling in HPC charging stations

HPC charging stations are a vital part for the future of mobility. Modern HPC charging stations can achieve charging capacities of up to 500 kW, significantly reducing charging times and enabling smooth long-distance travel. However, this level of charging power generates considerable heat in both the charging cables and the charging station electronics. AVS Römer optimises the cooling technology for HPC charging stations using an innovative, comprehensive system of components.



## At a glance

### The customer ef cooling Ernst H. Furrer AG

ef cooling is a leading global supplier of cooling systems for industry and has a long-standing reputation for providing innovative, customer-specific solutions. The company produces technologically advanced, market-oriented and high-quality cooling units and systems.

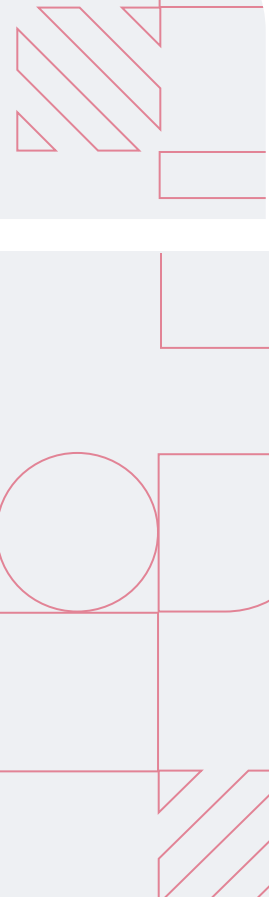
### The project

ef cooling required robust and powerful components to further develop and optimise its cooling devices for e-mobility. In 2020, ef cooling launched the "E-Mobility Project" in collaboration with AVS Römer, the expert in fluid technology solutions.

### The requirements in detail

Cooling technology components with the following features:

- ✓ Coverage of a temperature range from -35 to 85 °C / 100 °C
- ✓ Use of push-in technology for easy assembly
- ✓ Durability and reliability
- ✓ Compact design
- ✓ Cost efficiency



## The solution

When the going gets tough, AVS Römer shows what true partnership means. Starting with a standard component, the team developed a completely customised solution for an individually designed distributor, step by step. With rapid implementation, close support during every phase of development and a clear focus on optimal functionality, the result was a solution that perfectly suits the application. Once again, AVS Römer demonstrated its particular strength: understanding complex requirements, solving them creatively and transforming them into tailor-made products.

## The advantages

This special solution met all the essential requirements of the customer and delivered the desired advantages.

- ✓ Space-saving design
- ✓ Reduction in the number of required components
- ✓ Reduced assembly time

All the other components from AVS Römer, including the fittings, connectors and valves, helped the overall project to achieve the more efficient production that EF Cooling was aiming for.

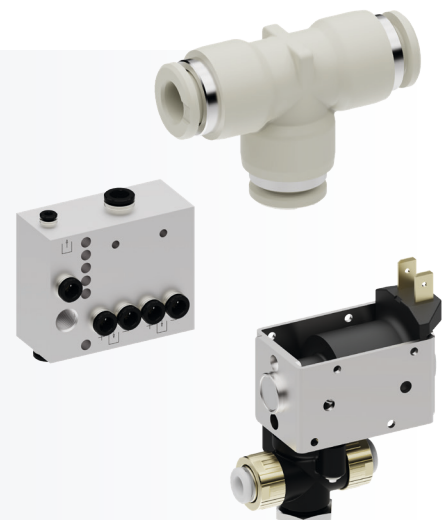


“In our search for the right connecting elements, we drew on our past experience with AVS Römer to analyse the requirements of the new project. This enabled us to develop a product that meets our needs. Direct, daily communication was key to our collaboration with the AVS Römer team. Initially, we used standard parts from the catalogue. Over time, we collaborated to develop increasingly sophisticated solutions tailored precisely to our application and specific requirements.”

**Daniel Bärtschi, managing director**  
**Paolo Pezzani, project manager**

## The conclusion

AVS Römer has consistently delivered outstanding performance throughout this challenging project. The customer said that the high level of vertical integration and the ability to act as a holistic partner throughout the process, from initial idea to finished solution, were key to the joint project's success. Particularly noteworthy is the rapid implementation and intensive customer support, especially during the prototype phase.





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