

Reliable heating and perfect appearance  
thanks to the new laser welding technology:  
Zehnder Charleston LaZer made

**zehnder**

always  
around you

Heating

Cooling

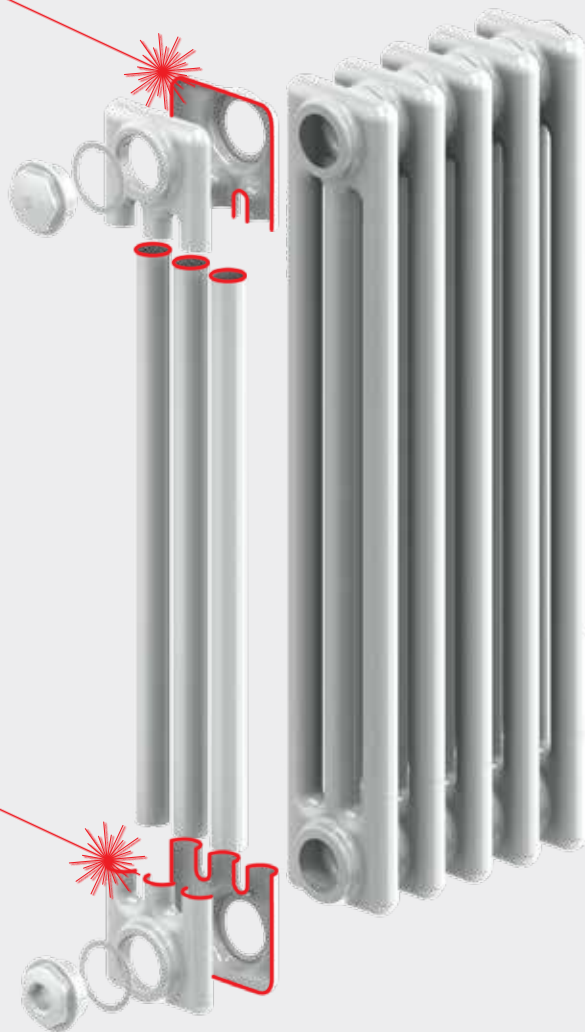
Fresh Air

Clean Air



# New: Zehnder Charleston LaZer made – the high-tech, residue-free welding method

**The fact that Zehnder Charleston** has become a radiator classic is down in no small part to its innovative strength. And even today it boasts a unique new feature: the manufacturing of Zehnder Charleston with LaZer made. This innovative laser welding method for the production of sectional radiators is setting new standards for quality and technology in terms of precision, quality and functionality. Thanks to LaZer made, manufacturing can be more precise than ever before – all without residues inside the radiator or offsets on its surfaces. This makes for an even more attractive appearance and optimised radiator operation. For the tangible benefits this can offer you and your customers, see the information on the right.



Precision manufacturing of header half sections



Laser-welding headers



Header tube welding



You can find further details on the origin of Zehnder Charleston here.

## Smooth operation, less hassle

The application of this new laser welding method ensures completely clean welding. It guarantees that absolutely no residues remain inside the radiator – this prevents the valves and heat generators from potentially becoming blocked. For you, this means reliable operation and less time required to flush out the heating system.



Old

New

## Top quality, enhanced appearance

Continuous inspection by a 3D co-ordinate measuring machine prevents even the smallest dimensional nonconformities. To ensure absolute tightness, each unfinished structure is subjected to testing in a test bath both during the production process and in the final stage of manufacturing. The unique production method enables leakproof radiators and clean contours free of offsets. The resulting smooth surfaces are easier to clean.



Quality control

## Sustainable manufacturing, made in Germany

Improved energy efficiency, environmental friendliness and sustainability. Because the new laser welding technology requires less energy than the previous method, Zehnder Charleston boasts a satisfyingly low CO<sub>2</sub> footprint. With the “made in Germany” manufacturing label, Zehnder is dedicated to its production site in Lahr as well as to short transportation distances and ensured sustainability.



## More efficient processes, even faster and more reliable delivery

Tube machining is performed directly on the automatically delivered tube bundles. This removes the need for any interruptions between the production stages and speeds up the manufacturing process. Your radiators are therefore delivered to your project site even faster and are guaranteed to arrive on the agreed date.



