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- Materials:
- Aluminum
 - Copper
 - Copper Nickel
 - Carbon Steel
 - Stainless Steel
 - Titanium



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- Product groups:
- Enhanced surface tubes
 - Low-, medium-high-, and high-finned tubes
 - Safety tubes
 - Finned tube and coaxial heat exchangers

Finned tubes and heat exchangers for greater efficiency

Whether for condensation or evaporation, clean or corrosive media, or the most stringent safety and hygiene requirements: tube and heat-exchange solutions can only be efficient if they're precisely tailored to their specific application. This is why we continue to break new ground in heat transfer and forming technologies – by using a wide range of materials, customized designs, innovative surfaces, and reliable joining technologies. The result is a unique service portfolio guaranteed to exceed your expectations.

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- Applications:
- Air Conditioning & Refrigeration
 - Heating Technology
 - Process Technology
 - Machinery & Plant Technology



Finned Tubes

Optimized surfaces for efficient heat transfer

Finned tubes made by Wieland Thermal Solutions are produced from plain tubes that have undergone a forming process. They serve as highly efficient, compact, yet extremely stable heat exchangers. The surface of the tubes is perfectly matched to your intended application. What's more, we have access to a broad spectrum of materials to ensure we use just the right material for your specific needs.



Enhanced surface tubes ❄️ 🔧

Optimized for use as condenser or evaporator tubes in shell and tube heat exchangers.



Low-finned tubes ❄️ 🔥 🔧 ⚙️

For controlling the temperature of gases and liquids, or for evaporating and condensing refrigerants.



Medium-high-finned tubes 🔥 ⚙️

Ideal for use as compact coiled and bent elements in water heaters, oil coolers, and refrigerant condensers.



High-finned tubes 🔥 ⚙️

For the efficient heating and cooling of gases in heating technology, as well as in machinery and plant technology.



Safety tubes 🔥 ⚙️

Double-walled tubes with defined leakage paths for the safe separation of fluids such as drinking water, refrigerants, and oils.

Heat Exchangers

The right solution for any requirement

Heat exchangers made by Wieland Thermal Solutions are marked by their compact, yet highly robust design. In addition to our in-stock finned tube coils, we also offer customized versions of our heat exchangers. Our expertise in heat transfer and forming technologies – coupled with modern design and construction methods – flows into all of our products.



Finned tube heat exchangers

Storage heating, circulation heating of domestic water, protecting solid fuel boilers from overheating, or controlling the temperature of oils and emulsions: With our WRW series of heat exchangers, you are putting your trust in highly developed, compact solutions that are ready to install.



Finned tube condensers

Hygienic and compact: WRK finned tube heat exchangers are ideal for the direct heating of heating and drinking water using refrigerants. The inner grooved surface of the used finned tubes optimize the heat transfer. Thus highest COP-values are possible even with smallest temperature differences.



Safety heat exchanger

Hygienic and compact: With our Safety Heat Exchanger WRKS the air/water hot-water heat pump is particularly cost-effective, low in maintenance and energy-saving. The heat exchanger can be used for condensing the refrigerant within a domestic hot-water tank, ideally placed in the colder lower part. This double walled model offers additional safety against contamination and complies with the guidelines for ensuring the quality of drinking water.



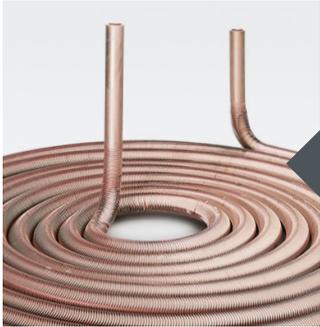
Coaxial heat exchanger

In coaxial heat exchangers, fluids are ideally conducted in counter-flow directions. The Wieland WKC and WKE series have been optimized for the condensation or evaporation of refrigerants and are used in reciprocator chillers and heat pumps.

Customized Heat Exchangers

Individually developed compact solutions made of copper, aluminum, steel or stainless steel for maximum efficiency.

For the individual design of a heat exchanger, we can choose from numerous designs and materials and, with the appropriate selection of tubes and surface structures, we can select an optimum combination for your application. In this way, we create innovative solutions for the most diverse thermal engineering problems in almost every industry. By integrating special functional parts, we can realize complete heat exchanger systems as ready-to-install components.



In addition to finned, and smooth tubes, double-wall solutions, and tubes with variable profile structures are available.



With a broad material portfolio, and a varied possibility of coatings, we are able to offer durable solutions.



With the integration of additional functional parts (i.e. fittings, and mounts) we are able to supply ready-to-use systems for serial production.



Our long-term experience in engineering enables us to supply tailor-made solutions of high complexity.

Contact us

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