HRSFUNKE Heat Transfer Group  
Quality Heat Transfer Solutions  

HRSFUNKE Heat Transfer Group operates at the forefront of thermal processing technology and is a leading heat transfer specialist. The company provides high quality and effective heat transfer solutions for an extensive range of processing applications across a broad spectrum of industries. Industries supplied include marine, food and beverages, sugar, oil and gas, petrochemical and chemical, pharmaceuticals, power and HVAC / district cooling, refrigeration, Domestic Hot Water and steam systems.

HRSFUNKE Heat Transfer Group’s head quarters are in Spain with our MENA main office (formerly known as HRS FUNKE Heat Exchangers FZCO) located at Jebel Ali Free Zone, Dubai. These premises include a 6,600 square foot products and spare parts storage area. HRSFUNKE also has a branch in Abu Dhabi, HRS-FUNKE Heat Transfer LLC, who specialise in the oil and gas industries.

HRSFUNKE works closely with a number of internationally renowned specialist companies including CERTUSS Steam Generators, FUNKE Wärmeaustauscher Apparatebau GmbH and ARI Armaturen.

HRSFUNKE Heat Transfer SL, Spain  

HRSFUNKE Heat Transfer SL is a Company specialized in optimizing both the designs and quality of the heat transfer equipments providing to their customers. Their heat exchangers are exemplary examples of maximum thermal performance, high mechanical strength and reliability. In addition, HRS FUNKE Heat Transfer SL has developed new designs to complete their comprehensive range for the most sophisticated and complex applications.

HRSFUNKE Heat Transfer  was founded by a group of engineers specialized in heat exchanger design and manufacture with a combined professional experience of over 60 years. The accumulated experience covers the use of heat exchangers in all sectors of industry, particularly the Food Processing Industry, Environmental Control, Automotive, Chemical, Pharmaceutical, Shipbuilding and many other diverse industrial applications.
FUNKE WARMEAUSTAUSCHER – GERMANY
For more than forty years FUNKE has specialised in the development and manufacture of Shell type heat exchangers, where our plate heat exchangers with an exchange surface of up to 2000 square metres for all current industrial, food and district cooling applications.


CERTUSS STEAM GENERATORS – GERMANY
CERTUSS was formed in 1957 to manufacture reliable, low-noise steam generators, which were easy to maintain and suitable for continuous steam operation. These generators use the water-tube boiler principle, the most commonly used method of steam generation worldwide.

Today the company operates worldwide. By concentrating on a clearly defined product line and with continuous research and development the company manufactures to the highest quality with certified quality assurance conforming to DIN EN ISO 9001:2008.

ARI-ARMATUREN – GERMANY
Established in 1950 ARI manufactures heavy duty valves under the most stringent production quality controls to comply with DIN EN ISO 9001, from three German production facilities. These valves are used in industrial processes and chemical applications, through shipbuilding to building control for the control, isolation, safety and steam trapping of liquid and gaseous media.

The company has twelve overseas sales subsidiaries as well as a network of sales partners in over 50 countries worldwide.

OUR PRODUCT RANGE
◆ Plate Heat Exchangers
◆ Shell & Tube Heat Exchangers
◆ Hot Water Storage Calorifiers
◆ Solar Water Heating System
◆ Heat Pumps
◆ Hot Water Boilers and Steam Boilers
◆ Steam Accessories & Values
◆ Steam Generators
◆ UNICUS non-fouling scraped surface heat exchanger series
◆ The hygienic piston pumps
◆ Food processing plants
◆ Electric Pre Heaters.
◆ Oil/Air Coolers
PLATE HEAT EXCHANGERS
HRSFUNKE offers a range of plate heat exchangers able to meet almost any machine and plant engineering requirement. Our product series includes single and multi-pass plate heat exchangers with a heat exchange surface of up to 2000 square metres. The heat transfer plates are characterised by optimum embossing, which results in high heat transfer coefficients.

HRSFUNKE’s special off-set system with asymmetric flow gaps creates highly efficient and cost-effective exchangers whose performance, dependent on the design, is up to 17 percent higher when compared with conventional plate heat exchangers. We supply gasketed, welded and brazed plate heat exchangers.

The HRSFUNKE brand stands for the highest quality standards combined with customer-oriented solutions.

SHELL AND TUBE HEAT EXCHANGERS
Shell and tube technology from HRSFUNKE offers a unique range of heat transfer solutions for oil and gas, petrochemical, process industry, refrigeration, air conditioning, Domestic water heating and cooling system and steam applications.

HRSFUNKE’s shell and tube heat exchangers feature innovative corrugated tube technology to give increased heat transfer. Corrugated tube units can generate tubeside heat transfer coefficients of up to $2\frac{1}{2}$ times higher than the equivalent smooth tube unit and are of a more compact design, giving a very cost effective, space efficient heat exchanger.
HOT WATER STORAGE CALORIFIERS

HRSFUNKE Storage Calorifiers offer a high quality solution for Domestic Hot water Supply System. The standard range are manufactured from either Copper Lined Steel or Stainless Steel, but alternative options are available in Glass / PTFE Lined Steel or galvanized steel. All the Storage Calorifiers are manufactured in accordance with European Pressure Equipment Directive(PED) 97/23/EC & British Standards(BS) BS853 Grade A.

HRSFUNKE is known for bespoke designs where customer can decide the dimension of Calorifiers and which will make more convenience in the end-user or client point of view. HRSFUNKE Storage Calorifiers are offered in different series based on the application.

SOLAR HEATING SYSTEM:
HRSFUNKE solar water heating systems offer a clean, green alternative for hot water generation plants. A choice of two types of highly efficient collector panels ensure the optimum usage of solar energy.
STEAM BOILERS

HRSFUNKE three pass back horizontal fire tube boilers for oil, gas or dual operation are of a robust construction, are highly efficient and have been designed for a long working life. Manufactured from high quality materials the welds are checked by radiographic scanning and dye penetrates. Our Steam Boilers are available with design pressures up to 15 bar.

The boiler is supplied fully packaged for easy installation only requiring connection to power, water, steam and blow down lines. Packaged systems supplied includes the feed water tank, softening plant, chemical dosing unit, blow down and condensate recovery systems, and steam accessories.

HOT WATER BOILERS

HRSFUNKE provides hot water boilers together with ancillary boiler room equipment for an integrated systems approach suitable for virtually any industrial process and comfort space heat application.

Boiler capacities are available from 64KW to 6000 kW at standard design pressures of 4 to 10 bar. These compactly designed packaged fire tube boiler assemblies feature configuration with reserve flame & 3 pass flue gas flow arrangements.

HRSFUNKE provides complete packages for customised boiler plant requirements designed to your requirements to ensure safety, reliability and quality.
STEAM GENERATORS

Certuss high quality steam generators are based on the water-tube boiler principle. The steam is available immediately due to pilot burner technology. Dependent on steam requirements options include:

- The Junior SC series with a steam capacity of 80 kg/h to 600 kg/h;
- The Universal SC series with a steam capacity of 700 kg/h to 1800 kg/h;
- The Universal TC series with a steam capacity of 500 kg/h to 1800 kg/h.

All systems can be equipped with either gas or oil combustion, and for a steam capacity of more than 500kg/h, combination burners. In addition we offer steam generators with electrical heating.

All our steam generators are type examination tested in accordance with the European Pressure Equipment Directive 97/23/EC.

OIL/AIR COOLERS

HRSFUNKE oil/air cooler series is available with a heat dissipation of up to 6.2kW/K and in a one or multi-pass design.

Our wide range of standard units meet most application requirements however, we are able to develop special designs for particular projects.

Special designs are available with copper water pass and aluminum fin water cooling application (Air/Water) for domestic water heating or solar water heating systems.
ELECTRIC PRE HEATERS

The use of electric oil/water pre-heaters ensures machine-tool efficiency, minimises energy consumption and protects against wear and tear. HRSFUNKE offers a modular program incorporating different units with heating power ranging from three to 100kW for mechanical and plant engineering applications.

Electric pre-heaters can also be used as inline water heaters for HVAC applications and are commonly known as electric hot water generators.

HEAT PUMPS

HRSFUNKE Heat Pumps are available for heating/cooling applications, with dual mode or single mode. Our range of heat pumps include high temperature heat pump which can produce hot water at 75°C.

Normal water source or air source heat pumps are suitable for 60°C hot water generation.
THE HRSFUNKE HYGIENIC PISTON PUMP OVERCOMES ALL OF THESE PROBLEMS SINCE IT:

- Is competitively priced.
- Maintains product integrity and quality
- Delivers high flow rates of up to 12m³/hr
- Allows high-pressure losses - 30 bar.
- Can work under vacuum.
- Is self-priming.
- Can work empty.
- Requires few spare parts.
- Has no rubber in contact with the product.
- Can work at high temperatures - 100°C.
- Has an adjustable flow

STEAM ACCESSORIES & CONTROL VALVES

You can expect a quick, competent advice from one partner - whether you need butterfly valves or globe valves, if you demand control valves or safety valves, if you require strainers or check valves and new steam traps.

FOOD PROCESSING PLANTS

HRSFUNKE supplies hygienic food processing lines based around a range of modular solutions in standardised packages, which are suitable for most food processing applications.

For those applications where the product or processing requirements can not be met by standardised packages, turnkey plants are available.
TURNKEY SOLUTIONS
HRSFUNKE is one of the leading cost effective turnkey solution provider of water heating and cooling systems for commercial and industrial application using steam generators, hot water boilers, heat exchangers, storage calorifiers & solar water heating panels.

HRSFUNKE is also specialized in steam distribution system with steam generators, Steam boilers, condensate recovery unit and steam accessories for industrial, laundry and restaurant applications.

AFTER SALES SUPPORT:
Our committed and experienced after sales team ensures that for all our equipment the down times are low and the up times are high. The company employs a team of technical engineers who are all highly expert in their respective fields and have experience of handling a wide range of solar water heaters, heat exchangers and calorifiers for construction, marine, industrial and district cooling applications.
Manufacturing Facilities
HRSFUNKE Heat Transfer SL, Spain
C/ Magallanes, 5 – Pol. Ind. La Estrella
Molina de Segura 30500 – Murcia – España/Spain

FUNKE Warmeaautauscher Apparatebau GmbH
P.O. Box 1152, Gronau, Germany

CETRUS Dampfautomaten GmbH & Co. KG
Factory I Hafenstr.65 D47747 KREFELD, Germany.

After Sales & Storage Facility in Middle East
Jebel Ali Free Zone South 5, FZS5 AA05
Storage Area = 6600ft²

Jebel Ali Industrial Area 3,
Ware House No. 11, Storage Area = 2600.5ft²

Tools Available for Design
Thermal design in proprietary software for ECOFLUX
Mechanical design – Pvelite software,
Design / drafting – AutoCAD, Solid Works,
Configuration - TEMA type heat exchangers
or based on Customer’s design.
Solar Design – T*SOL Expert. ASHRAE
Mechanical design - ASME "U", BS 5500, PED, AD Merkblatter, etc.,
Standards design
HTRI Software for Thermal design of Shell & tube heat exchanger

Product Quality:
Equipment is manufactured to the codes mentioned by the customer,
e.g. ASME Sec. VIII –Div.I, TEMA, PED, ASME U Stamp, BS853, ISO

Types of Industries
• HVAC
• District Cooling
• Chemical Industry
• Process Industry
• Petrochemical
• Oil & Gas
• Pharmaceutical
• Food, etc.