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For over 30 years we have been perfecting our products to give you the confidence of making the best choice.

Our story

Since 1988, we have been inspiring people to save our planet's resources through efficient heat transfer. With our reliable exchangers, systems gain in efficiency. An innovative approach combined with the passion of our engineers enables thousands of our customers around the world to reduce costs, save time and make a positive impact on the environment. Their satisfaction makes us proud and at the same time confirms the quality of our brand.

Our commitment

Our commitment is to create the most efficient methods of heat transfer. Thanks to this approach, we are confident that we can take good care of our clients and provide them with high-quality products and construction solutions.



JAG

Plate Heat Exchangers

From the passion for innovation a new product has been born – JAG Plate Heat Exchanger with inventive jagged pattern of a heating plate. Breaking new ground solution brings not only enhanced flow turbulence but also increased heat exchange area. Together it gives more compact, lighter but most of all more efficient device which can be customized to your individual requirements. Highly efficient JAG Plate Heat Exchanger will become a long-life dependable solution for your applications.

APPLICATION

- chemical industry
- food & bev industry
- HVAC-R
- iron and steel industry
- pulp & paper industry
- marine industry
- power

WORKING PARAMETERS

- max. pressure: 6, 10, 16, 25, 30 bar
- max. temperature: 170°C
- min. temperature: -20°C



ADVANTAGES

Heat exchangers dedicated to heating or cooling systems.

APPLICATION

- tap water heating systems
- central heating systems
- solar and geothermic heating systems
- installations with heat pump
- installations with fireplace and water jacket
- heating, technological, cooling and industry installations

WORKING PARAMETERS

- max. temperature: 230°C
- min. temperature: -195°C
- max. pressure: 30 bar



ADVANTAGES



HIGH HEAT TRANSFER COEFFICIENT

COMPACT SIZE



DOUBLE WALL OPTION AVAILABLE



RESISTANCE TO HIGH TEMPERATURE AND PRESSURE



ASYMMETRIC OPTION AVAILABLE

EASY ASSEMBLY

AND DISMANTLE

LUNA

Heat exchangers entirely made of stainless materials designed to maintain high sanitary standards.

APPLICATION

WHEN HIGH LEVEL OF HYGIENE IS CRUCIAL

- systems with demineralized water
- cooling systems with high hygienic standards
- tap water heating systems

WHEN RELIABILITY IS ESSENTIAL

- central heating systems
- systems with aggressive media
- systems with galvanized pipes
- industrial cooling systems
- hydraulic oil cooling

WORKING PARAMETERS

- max. temperature: 200°C
- min. temperature: -195°C
- max. pressure: 20 bar







STAINLESS BRAZING ALLOWS HOMOGENEOUS CONSTRUCTION



HIGH SANITARY STANDARDS







RESISTANCE TO HIGH TEMPERATURE AND PRESSURE

RESISTANCE **TO CORROSION**

R

Brazed plate heat exchangers designed for use in cooling or heating installations. Refrigerant evaporators, condensers and economizers.

APPLICATION

- chillers
- refrigeration units
- ice water generators
- heat pumps
- cooling systems with special construction

WORKING PARAMETERS

- max. temperature: 150°C
- min. temperature: -195°C
- max. pressure: 45 bar





ADVANTAGES





OPTIMIZED FOR MODERN REFRIGERANTS



RESISTANCE TO CYCLIC FATIGUE

RESISTANCE **TO FREEZING**



SPECIAL CHANNEL PATTERN ENSURES EFFECTIVE EVAPORATION OR CONDENSATION

Pool Heat Exchangers

B, TI, REV

Special design of our pool heat exchangers boosts heat transfer and delivers better utilization of heat source. Equipped with straight tubes all of the models ensure low pressure loss thus saving energy. Corrugated straight tubes promote turbulent flow which further intensifies heat exchange and helps reduce fouling.

APPLICATION

- pool with treated water
- salt water swimming pool
- oceanarium
- olympic pools
- aqua parks

WORKING PARAMETERS

- max. temperature up to: 165°C
- min. temperature up to: -20°C
- max. pressure: 16 bar









RELIABILITY









COMPATIBLE WITH ALL TYPES OF POOL INSTALLATIONS

DNA

Shell & Tube Heat Exchangers

DNA heat exchangers constitute another step in the evolution of shell and tube exchangers.

They provide a number of hydraulic and heat exchange improvements, preserving the features and benefits of the traditional design.

APPLICATION

- low pressure steam condensers (flash steam condensers)
- industrial and chemical processes
- recuperation and regeneration in industrial technologies
- waste heat recovery diesel and gas engines, cogeneration systems
- water and steam systems, cooling circuits

WORKING PARAMETERS

- max. temperature up to: 200°C
- min. temperature up to: -20°C
- max. pressure:
 - shell side: 10 bar tubes side: 16 bar

















NO DEAD SPOTS

MULTIPLE CONTACT POINTS ALONG THE TUBE BUNDLE

LARGE HEAT TRANSFER AREA CONTAINED IN COMPACT CONSTRUCTION

JAD

Shell & Coil Heat Exchangers

The design and performance of JAD shell and tube heat exchangers make them perfect for the most demanding applications. Their sizes, compact in relation to the heat exchange area, and consequently the high performance as compared to the standard solutions, are appreciated by many installers and users. Made entirely of stainless steel, they offer a durable and sturdy design. Due to their design flexibility, they may become a part of most heat transfer systems.

APPLICATION

- heat exchange in industrial processes
- district heating substations
- ventilation systems
- air-conditioning systems
- heating systems
- chemical and food industry
- condensers
- evaporators
- economizers

WORKING PARAMETERS

- max. temperature up to: 250°C
- min. temperature up to: -20°C
- max. pressure:
 - tubes side: 35 bar
 - shell side: 16 bar



ADVANTAGES















HAD

Shell & Coil Heat Exchangers

The design and performance of HAD shell and coil heat exchangers make them perfect for the most demanding applications. Due to their properties, HAD heat exchangers are most often used in steam applications, especially when condenser subcooling is required.

APPLICATION

- HVAC systems
- steam applications
- heating and cooling systems
- heat transfer in industrial processes
- oil coolers

WORKING PARAMETERS

- max. temperature: 250°C
- min. temperature: -20°C
- max. pressure:
- shell side: 16 bar
- tubes side: 35 bar



ADVANTAGES

SIZE

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LARGE HEAT EXCHANGE AREA





HIGH PERFORMANCE

TURBULENT FLOW PROMOTED BY CORRUGATION OF TUBES

VERTICAL INSTALLATION REDUCES SPACE REQUIREMENTS



WIDE RANGE OF PRODUCTS



FACTORY-INSTALLED INSULATION







P-line

Shell & Coil Heat Exchangers

Hexonic P-line heat exchangers meet the challenges offered by the pharmaceutical industry. They also meet its restrictive hygienic standards imposed by inspection authorities and the industry. They were designed so to minimize the risk of contamination and ensure safe and sterile operation.

APPLICATION

- production of high purity inhalation medicines
- production of advanced therapy medicinal products (atmp):
 - gene therapy products
 - somatic cell therapy medicinal products
 - tissue engineering products
- production of ophthalmic medicines and contact lenses
- production of biotechnological preparations
- production of diagnostic preparations
- cleaning of containers, packaging and installations.

WORKING PARAMETERS

- max. temperature:
- tubes: 140°C
- shell: 200°C
- min. temperature up to: -25°C
- max. pressure: 10 bar







DESIGNED TO OPERATE IN PHARMACEUTICAL PRODUCTION



3-A CERTIFIED

MADE ENTIRELY OF STAINLESS STEEL

ONE-, TWO-, AND FOUR-PASS TYPES



HORIZONTAL AND VERTICAL MODELS AVAILABLE



SURFACES THAT COME INTO CONTACT WITH PURE MEDI-UM HAVE BEEN POLISHED TO RA ≤ 0.5 µm

MANUFACTURED IN ACCORDANCE WITH CGMP, PED, ASME

ST

Tube in Tube Heat Exchangers

ST tube in tube heat exchangers find their application where fluids of high viscosity, density or high fibre or solid particle contamination are subjected to heat treatment, e.g. at waste water treatment plants.

The presence of different types of mechanical contamination causes their sedimentation on the walls, which blocks the flows in the exchanger. Large diameter of the ST exchanger tubes ensures their free flow and the dismountable design allows for mechanical cleaning of the heat exchange surface. Stainless steel make ensures corrosion resistance and the simple design ensures long-term failure-free operation.

APPLICATION

- sewage treatment plant
- cooling and heating of wastewater sludge
- food and beverage industry
- paper industry
- chemical industry

WORKING PARAMETERS

- max. temperature up to: 110°C
- min. temperature up to: 0°C
- max. pressure:

tube side: 16 bar shell side: 10 bar











OPTION TO INCREASE HEAT EXCHANGE SURFACE

RESISTANCE **TO CORROSION**



JAG SHIELD

Plate & Shell Heat Exchangers

The JAG SHIELD heat exchanger represents a new, revolutionary solution, ensuring not only increased flow turbulence, but also extensive heat exchange area.

APPLICATION

- refrigeration industry as evaporators and condensers
- vapour condensation
- industrial cooling and heating systems
- oil coolers and heaters
- gas heaters and coolers
- CIP systems
- systems with aggressive media
- suitable for chemical processes

WORKING PARAMETERS

- max. temperature: 200°C, 250°C, 300°C, 450°C
- min. temperature: -50°C
- max. pressure: 16, 25, 40, 60, 100 bar
- (60, 100 bar non-openable shell only)
- min. pressure: -1 bar



ADVANTAGES



INNOVATIVE CORRUGATION DESIGN

UP TO 10% HIGHER HEAT TRANSFER EFFICIENCY



UP TO 10% LOWER PRESSURE DROP FOR HIGH FLOW PATTERN

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ENHANCED FLOW TURBULENCE

DECREASED FOULING



INCREASED HEAT EXCHANGE AREA



INCREASED PLATE DURABILITY

DNA ECO

Economizers

DNA ECO represents a derivative product from well known and globally acclaimed heat exchanger DNA with helically shaped heating tubes. Recovery modular heat exchanger using new hexagonal DNA tubes represents next step in energy regeneration.

APPLICATION

- preheating of boiler feed water
- waste heat recovery
- cogeneration
- waste heat boilers
- heating and cooling systems
- industrial processes
- petrochemical industry
- food industry

TECHNICAL PARAMETERS

- shell side flue gas side: max. temperature: 250°C, 600°C max. pressure: 0,5 bar
- tubes side medium side: max. temperature: 110°C, 200°C max. pressure: 6 bar





EFFECTIVE HEAT TRANSFER AREA







MODULAR DESIGN



PROFITABILITY OF AN INVESTMENT



HIGH PERFORMANCE



LOW CO² EMISSION



HIGH MECHANICAL RESISTANCE



HIGH HEAT TRANSFER RATES



LOW PRESSURE DROP

D.COOL

Dry Coolers

Dry coolers are used to cool industrial systems, as well as industrial and commercial facilities.

The process consists in dumping excess heat to the environment, if its utilization is not economically justifiable. They operate by cooling the fluid passing through the tubes inside the finned heat exchanger with fans-generated air flow.

Fluid cooling using dry coolers is the cheapest method for dispersing waste heat, as they reach high performance at minimum power consumption.

APPLICATION

- data centre cooling systems
- heat and power plants
- industrial processes
- renewable energy
- biogas plants
- large volume air-conditioning systems

WORKING PARAMETERS

- max. temperature up to: 100°C
- min. temperature up to: -20°C
- max. pressure: 10 bar







EFFICIENT COOLING METHOD



HIGH PERFORMANCE AT MINIMUM POWER CONSUMPTION



CLOSED-CIRCUIT SYSTEM OPERATION





HIGH DURABILITY OF THE KEY COMPONENTS

AVAILABLE IN THREE COLOR VERSIONS

LOW NOISE LEVEL STARTING FROM <40 DB

TEMA

Heat Exchangers

We undertake complex and technologically challenging projects. Using state-of-the-art software, we are able to simulate any heat exchange process in order to find an optimal solution.

The heat exchangers we design and manufacture operate successfully at power plants, combined heat and power plants, industrial heating and cooling systems, cellulose plants, chemical plants, refinery plants and many others.

Advanced industrial technology and own device manufacturing guarantee high quality products. Experienced team of designers constantly works on designing state-of-the-art and efficient devices, adjusting them to customer requirements.

APPLICATION

- HVAC
- refrigeration
- food industry
- power industry
- sewage treatment plants
- chemical industry
- refining industry

WORKING PARAMETERS

- max. temperature up to: 900°C
- min. temperature up to: -198°C
- max. pressure: 480 bar
- min. pressure: full vacuum



ADVANTAGES



SPECIFICALLY ADDRESSING YOUR NEEDS

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HIGHEST EFFICIENCY





CUSTOM DESIGN



WIDE RANGE OF APPLICATIONS



MADE OF THE BEST QUALITY MATERIALS



OWN DEVICE - IN HOUSE



hexonic.com



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