

CUSTOM DESIGNED HEAT EXCHANGERS

PRODUCT OVERVIEW

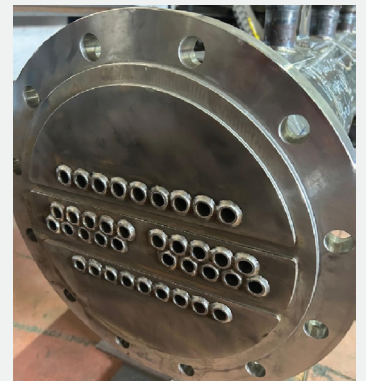
ENEVA Custom Engineered Heat Exchangers are high-performance thermal systems designed to provide efficient, controlled and reliable heat transfer between process fluids under demanding industrial conditions.

Unlike standard catalog solutions, ENEVA heat exchangers are developed specifically for each application, ensuring optimal performance even in cases involving high temperature, pressure, fouling or complex fluid characteristics.

Each unit is engineered as an integral part of the process, delivering maximum efficiency, operational stability and long-term reliability.

MAIN ADVANTAGES

- Process-specific heat transfer design
- High thermal efficiency with optimized surface area
- Controlled pressure drop for system compatibility
- Reliable operation under harsh industrial conditions
- Flexible configurations for various fluid types
- Designed for fouling resistance and easy maintenance
- Long service life with robust mechanical construction



ENEVA ENGINEERING APPROACH



ENEVA heat exchangers are not standard products - they are engineered solutions based on detailed process analysis:

- Fluid properties and chemical composition
- Temperature levels and heat duty requirements
- Allowable pressure drop constraints
- Fouling tendencies and maintenance strategy
- Thermal expansion and mechanical stress analysis

Material selection and mechanical design are optimized according to operating conditions, ensuring both thermal performance and structural integrity.

TECHNICAL SPECIFICATIONS (TYPICAL)



Design Type	Shell & tube, finned tube or custom configurations
Materials	Carbon steel, alloy steels, stainless steels
Standards	TEMA, EN, ASME (upon request)
Design Pressure & Temperature	Project specific
Heat Transfer Surface	Optimized per application
Maintenance	Accessible and service-friendly design



HEAT EXCHANGER TYPES

SHELL & TUBE HEAT EXCHANGERS

- Suitable for high pressure and high temperature applications
- Ideal for steam, hot water, thermal oil and process fluids
- Designed for fouling fluids requiring easy cleaning
- Configurable according to TEMA standards

Shell & tube exchangers are the most widely used and proven solution for industrial heat transfer.

FINNED TUBE HEAT EXCHANGERS

- Designed for gas-gas and gas-liquid applications
- Ideal for air heaters and flue gas heat recovery systems
- Suitable for high flow, low pressure applications
- Compact design with extended heat transfer surfaces

These exchangers are widely used in waste heat recovery and energy efficiency applications.

TYPICAL APPLICATIONS

- Chemical and petrochemical plants
- Waste heat recovery systems
- Steam and thermal oil systems
- Power generation facilities
- Food and process industries
- Gas engine and turbine systems

ENGINEERING AND MANUFACTURING FEATURES

- Process-driven thermal and mechanical design
- Optimized geometry for efficiency and compactness
- Designed for thermal expansion and mechanical durability
- Fabricated with controlled welding and quality procedures
- Custom configurations for integration into existing systems

WHY ENEVA?

- Strong expertise in process-based heat transfer design
- Custom engineering for complex applications
- Compliance with international standards
- High manufacturing quality and reliability
- Integrated approach from design to delivery

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