

Shell and tube exchanger

High pressure and extreme temperatures



Industrial equipment that can be designed as a pressure vessel, making it the reference solution for processes with high pressures, extreme temperatures and continuous thermal loads where mechanical reliability and operational safety are decisive.

Consisting of an outer pressurised cylindrical shell and an internal tube bundle, it allows two fluids to exchange heat without ever mixing. Suitable for energy and thermal generation, oil, gas and petrochemical, chemical and pharmaceutical, naval and offshore, biogas and high-pressure processes. Particularly suitable for compressors, turbines, reactors, transformers and critical 24/7 operating equipment. The design can incorporate multiple tube passes, single or multiple circuits, configurations for condensation or evaporation including NH₃, and horizontal or vertical mounting. Each unit starts from a specific thermal and hydraulic analysis.



TECHNICAL SPECIFICATIONS

Admissible pressure	Very high (pressure vessel)
Temperature	Very high
Standards	PED 2014/68/EU / ASME
Materials	AISI 304/316L, 904L, Duplex, Hastelloy, titanium
Mounting	Horizontal or vertical
Evaporation / condensation	NH ₃ included
Typical ROI	6-18 months

PED

Pressure
Equipment
Directive

ASME

international
pressure code

24/7

continuous
operation