



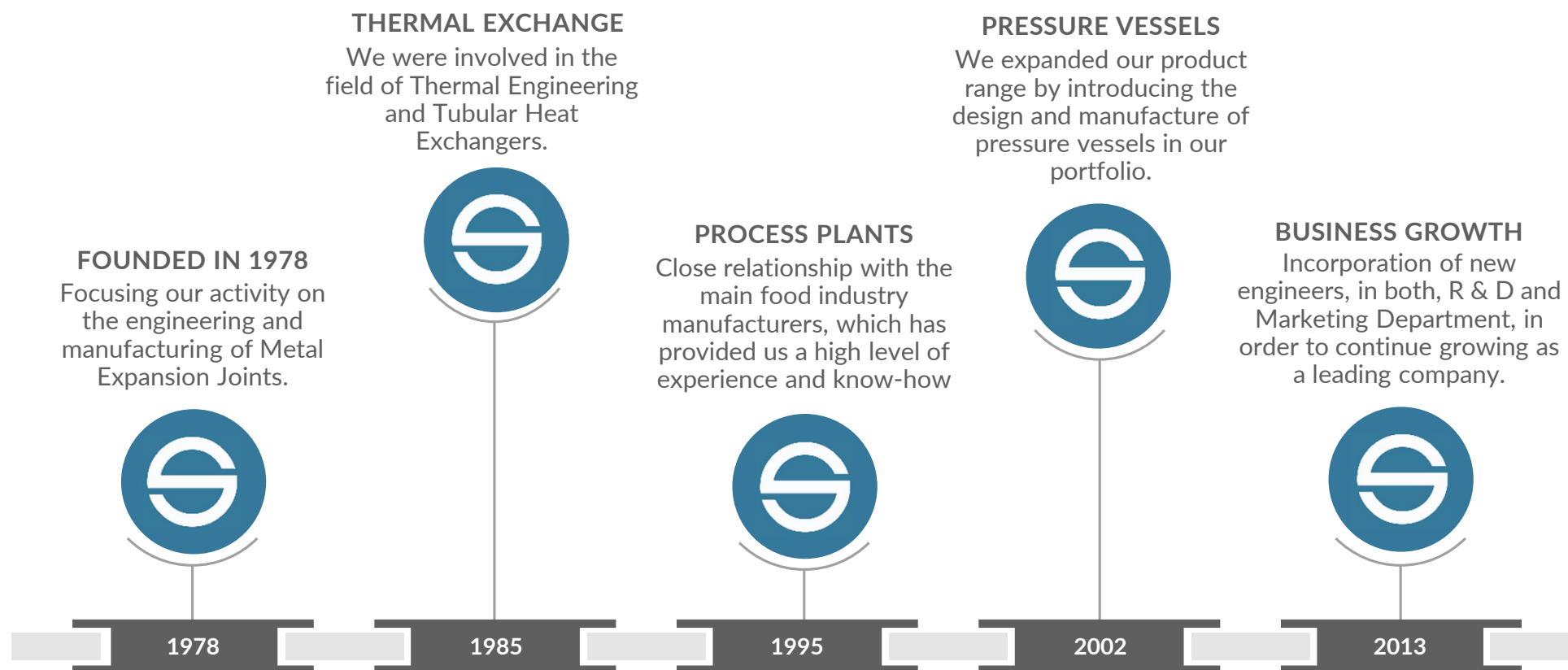
INDUSTRIAL LINE

EXONDER®
A World of High Quality Products

SHELL AND TUBE HEAT EXCHANGERS

SACOME | TIMELINE

ENGINEERING, DESIGN AND MANUFACTURING SINCE 1978





SACOME | VALUES

EXPERTISE

More than 6.000 references worldwide.

RELIABILITY

Innovation & continuous improvements.

QUALITY

Quality products that fully meet the needs of our clients.

TEAMWORK

Teamwork skills and cooperation.



RESPONSIBILITY

We honour our commitments and agreements.

CUSTOMER-FOCUSED

In-depht analysis of customer needs and requirements.

FLEXIBILITY

Fully adapted and customized designs.

HONESTY

An ethical approach of honesty as integral part of our philosophy.



SACOME| MAIN ADVANTAGES

MANUFACTURING SINCE 1978

ENGINEERING & DESIGN

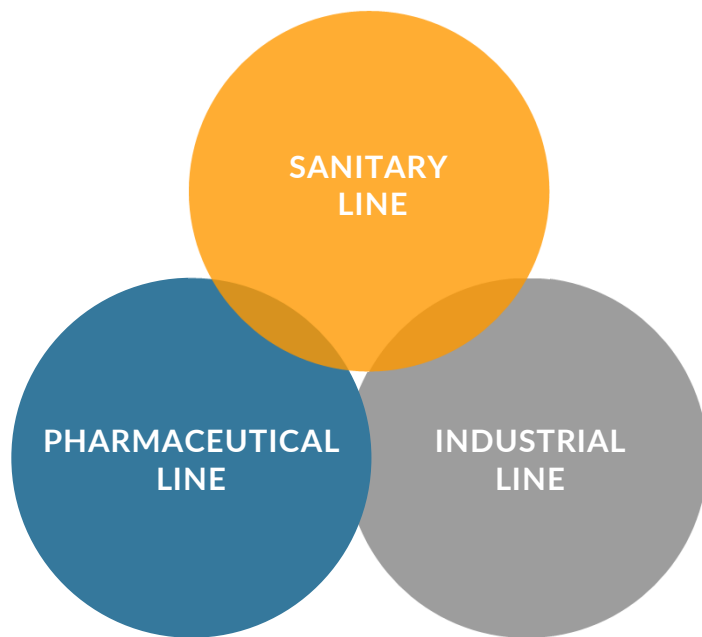
CUSTOM-MADE MANUFACTURING

QUALITY MANAGEMENT SYSTEM

RESEARCH, DEVELOPMENT & INNOVATION

**REGULATION & CONTROL FOR OUR
SYSTEMS & SKIDS**

SACOME | NEW LINES



SANITARY LINE

Optimized designs to favor a good CIP (Clean In Place) cleaning of the product channel, guaranteeing the best finishes and the drainability of the equipment.

PHARMACEUTICAL LINE

Designed in accordance with the recommendations set by the FDA. To avoid cross-contamination the exchanger has a double tubesheet. The finished meet the highest standards, with certified roughness if required. The design ensures drainability and product recovery.

INDUSTRIAL LINE

Designed both thermal and mechanically to ensure long life and high reliability.



SACOME | QUALITY SYSTEM

ISO 9001:2008

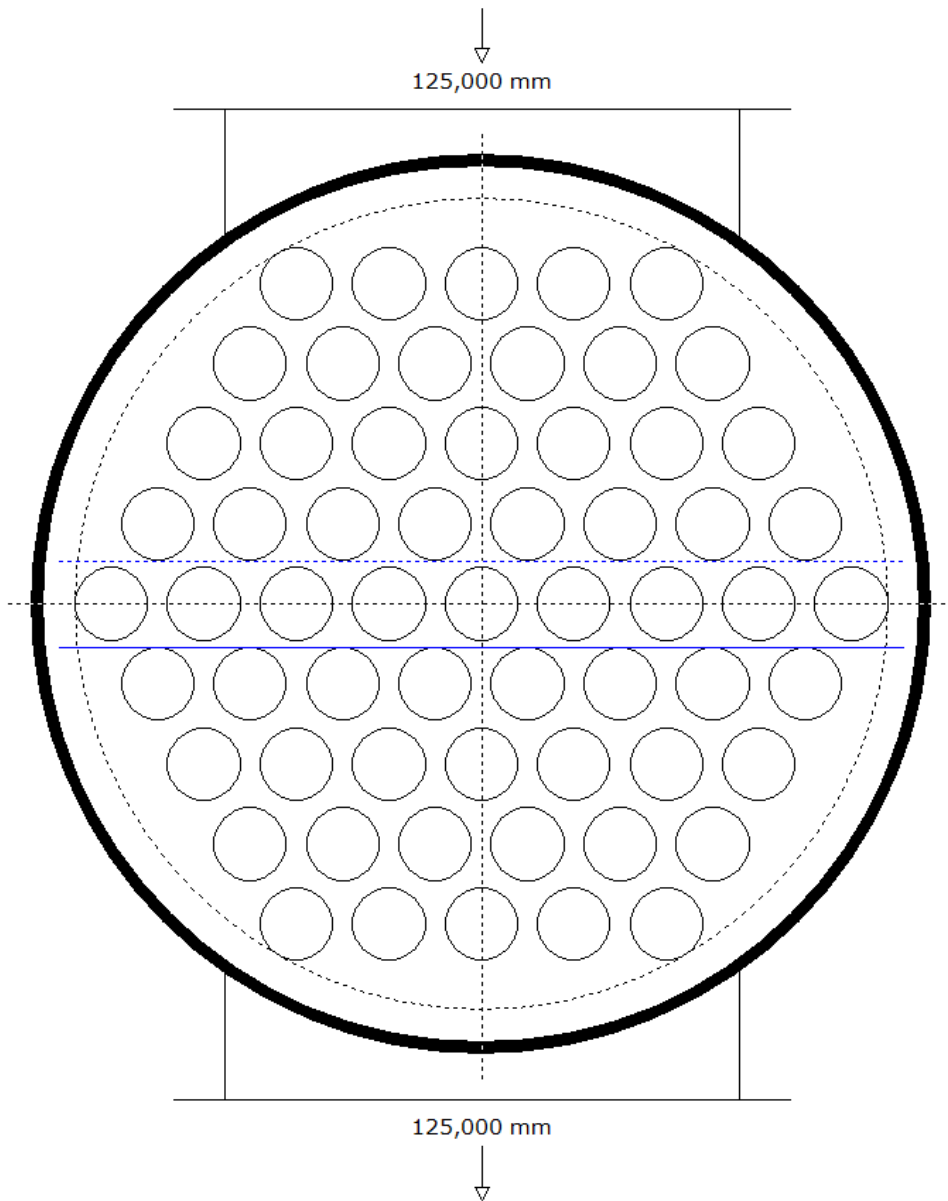
QUALITY SYSTEM UNE-EN-ISO9001: 2008



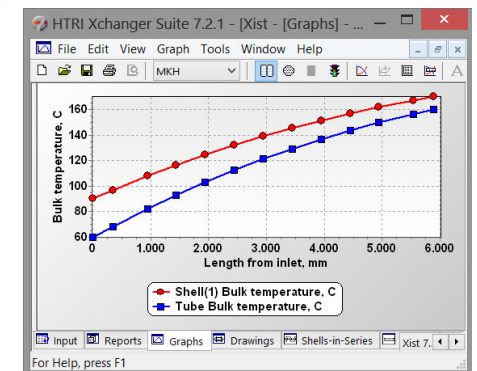
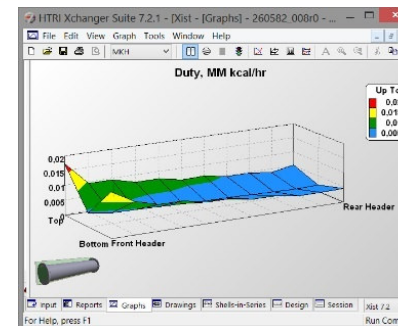
2014/68/EU

NEW DIRECTIVE 2014/68/EU



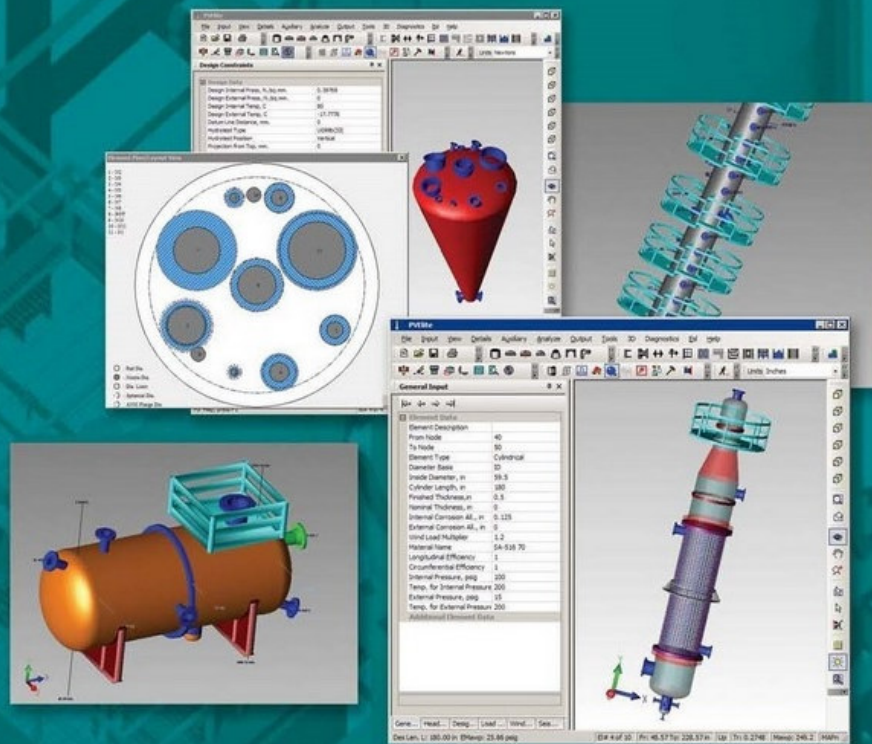


SACOME THERMAL DESIGN



PV Elite®

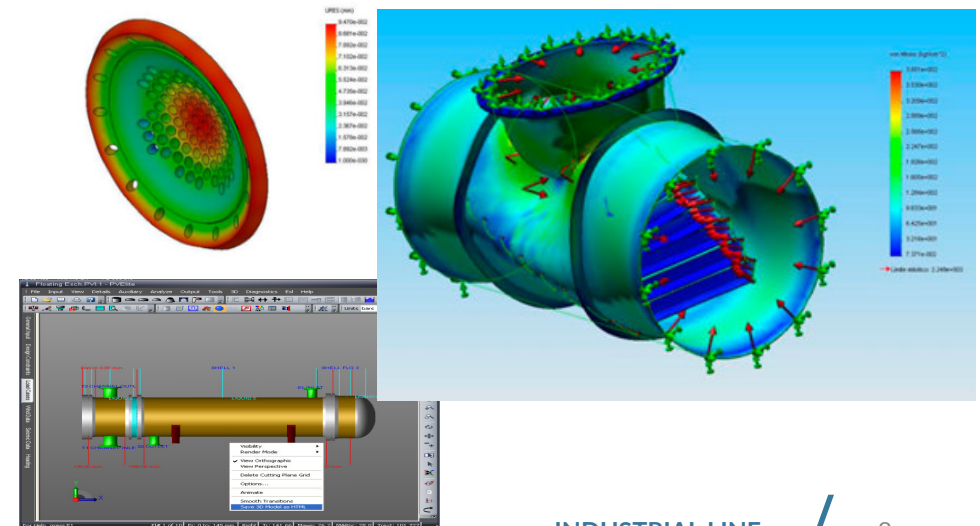
Vessel and Exchanger Analysis



SACOME MECHANICAL DESIGN

» FINITE ELEMENTS ANALYSIS (FEA)

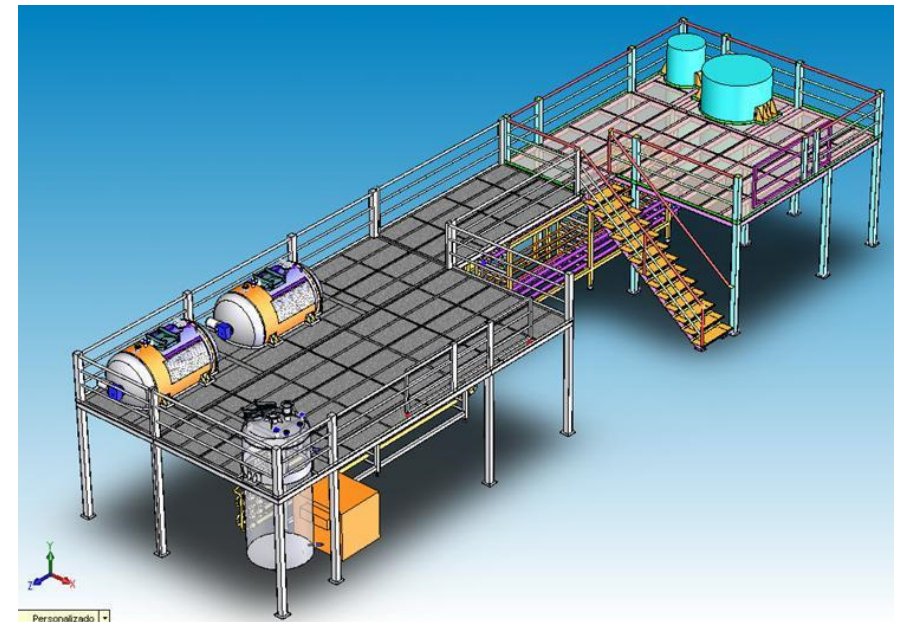
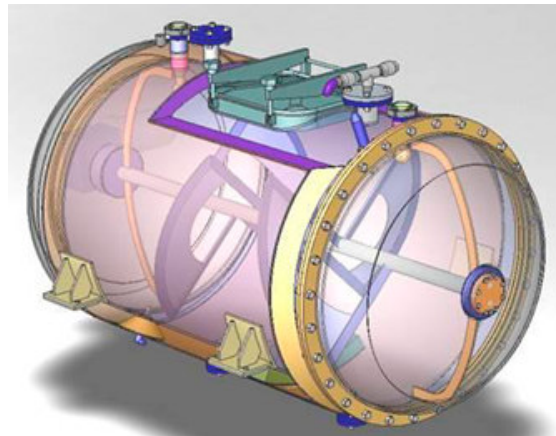
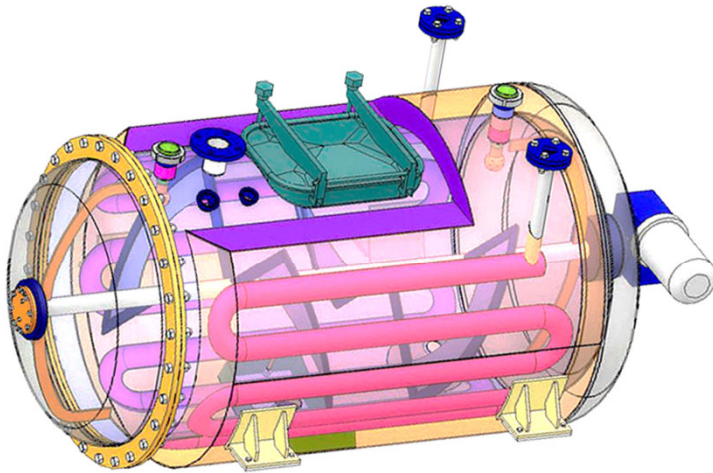
» PV Elite



INDUSTRIAL LINE



SACOME CAD 2D & 3D DESIGN





ADVANTAGES HEAT EXCHANGERS

SACOME TUBULAR HEAT EXCHANGERS

LOW MAINTENANCE COSTS

HIGH WORKING PRESSURES

HIGH WORKING TEMPERATURES

PROCESSING OF PARTICULATE OR FIBRE
PRODUCTS

EASY INSPECTION AND DISASSEMBLY

HIGH SECURITY IN ASEPTIC PROCESSES

EASY TO ENLARGE



INDUSTRIAL LINE HEAT EXCHANGERS

Designed both thermal and mechanically to ensure long life and high reliability.

HEAT EXCHANGERS (I)

TUBULAR HEAT EXCHANGERS FOR THE INDUSTRIAL SECTOR

INDUSTRIAL LINE



I-TF20-I TUBE IN TUBE



NON REMOVABLE INNER TUBE

I-TFM-I MULTITUBE



NON REMOVABLE TUBE BUNDLE

I-TFMP-I MULTIPLE PASS



NON REMOVABLE TUBE BUNDLE

I-TFM-D MULTITUBE



REMOVABLE TUBE BUNDLE

HEAT EXCHANGERS (II)

TUBULAR HEAT EXCHANGERS FOR THE INDUSTRIAL SECTOR

INDUSTRIAL LINE



V SERIES MULTITUBE



NON REMOVABLE TUBE BUNDLE

TEMA MULTITUBE



ACCORDING TO TEMA STANDARDS

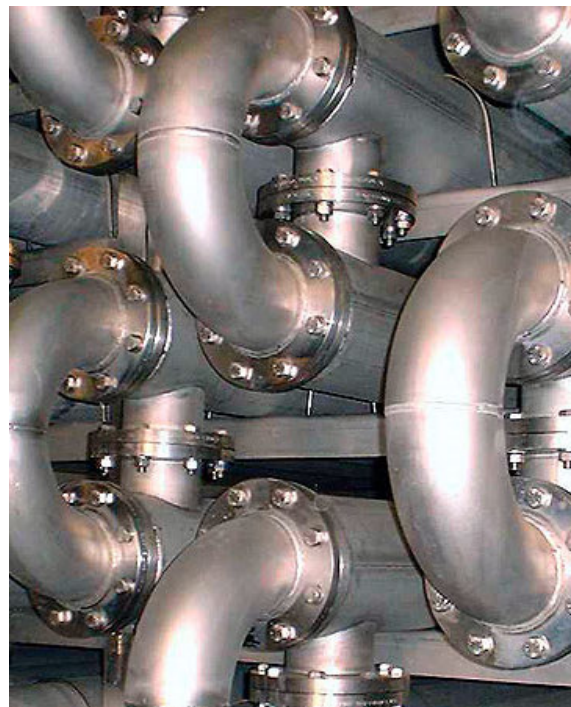
I-TFMU-D MULTIPLE PASS



REMOVABLE U TUBE BUNDLE

I-TF20-I TUBE IN TUBE

TUBE IN TUBE HEAT EXCHANGER. NON REMOVABLE INNER TUBE.



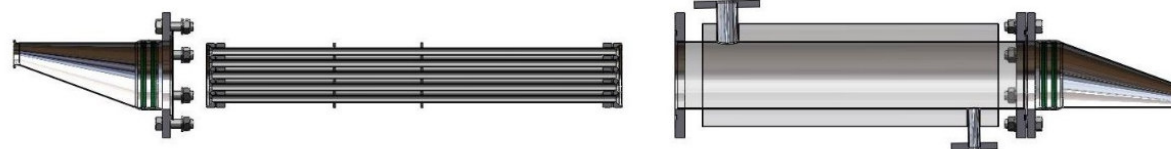
I-TFM-I MULTITUBE

MULTITUBE HEAT EXCHANGER. NON REMOVABLE TUBE BUNDLE.



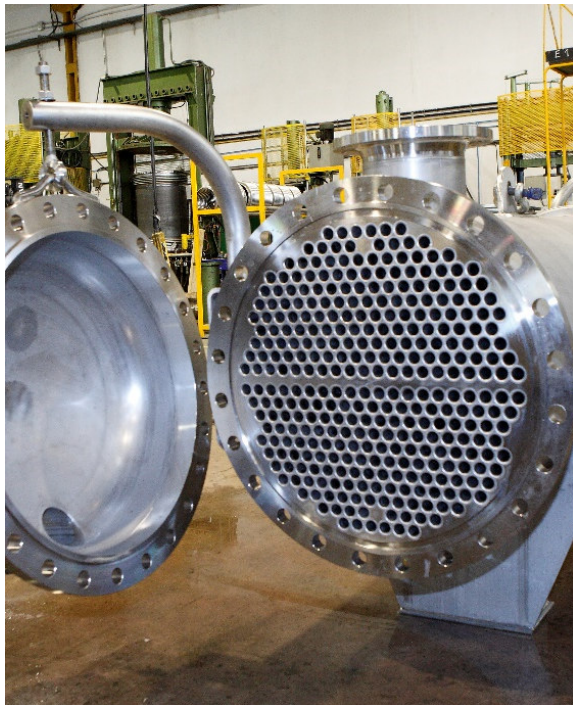
I-TFM-D MULTITUBE

MULTITUBE HEAT EXCHANGER. REMOVABLE TUBE BUNDLE.



I-TFMP-I MULTIPLE PASS

MULTIPLE PASS HEAT EXCHANGER. NON REMOVABLE TUBE BUNDLE.



V SERIES MULTITUBE

STANDARD MULTITUBE HEAT EXCHANGER. NON REMOVABLE TUBE BUNDLE. IN STOCK.



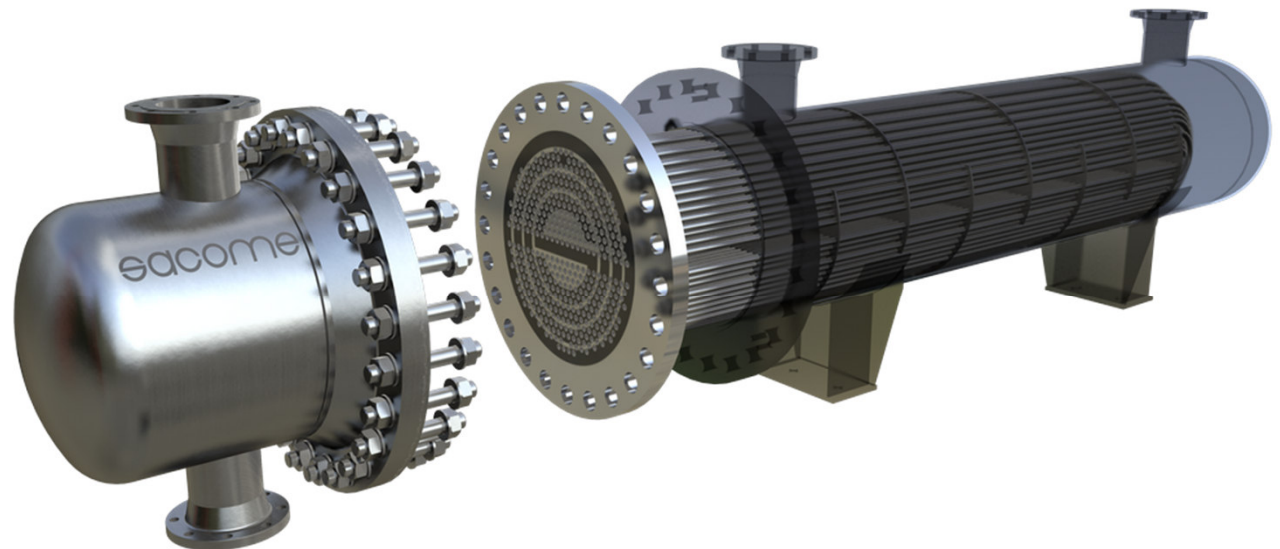
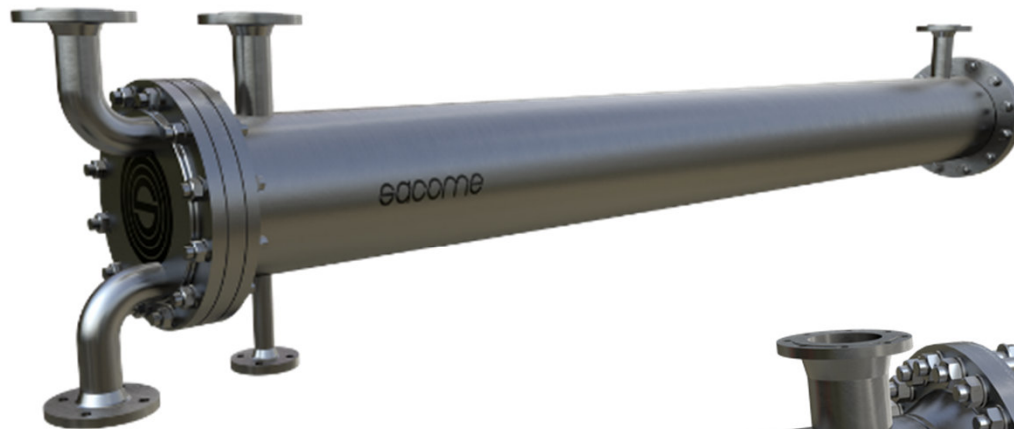
TEMA MULTITUBE

MULTITUBE HEAT EXCHANGERS DESIGNED ACCORDING TO TEMA STANDARDS

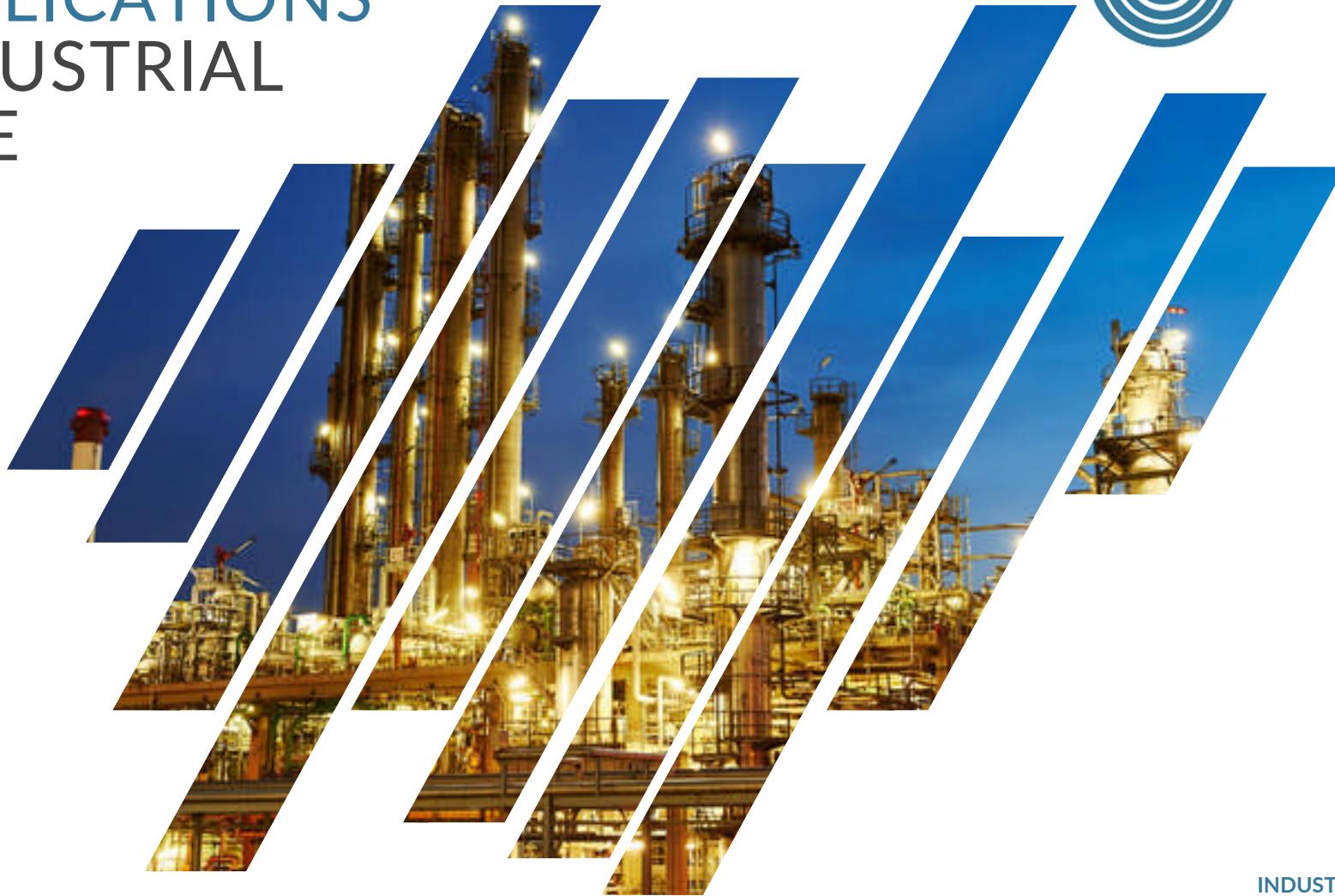


I-TFMU-D MULTIPLE PASS

MULTIPLE PASS HEAT EXCHANGER. REMOVABLE U TUBE BUNDLE.



APPLICATIONS INDUSTRIAL LINE





APPLICATIONS VEGETABLE OILS AND ANIMAL FATS

Plenty of references with multinational companies processing vegetable oils and animal fats guarantee the know-how of SACOME in this field and have led our company to become the right partner.

It is not necessary to emphasize the importance of the energy consumption in the costs when refining oil (degumming, bleaching, deodorising or neutralising are processes which involve a thermal treatment), in which our corrugated tube heat exchangers have been successfully used to do the energy recovery and thus reduce the consumptions and operational costs of the plant.



APPLICATIONS STEAM CONDENSATION

Shell and tube condensers are currently the most typical geometry used in the process industries. SACOME has designed and manufactured corrugated shell and tube heat exchangers to condense a wide range of vapors (water steam, methanol vapors, ethanol vapors, among others) in many sizes and duties, adequately-sized to suit the stringent client's specifications. Our Technical Department can check the thermal (with the XIST software by HTRI) and the mechanical design for a full range of pressures (since vacuum to 130 barg). A special care is taken to prevent the risk of acoustic and mechanical vibrations.

Particularly, we have a standard range ON STOCK of water steam condensers (V SERIES HEATERS) using our corrugated tube technology.



APPLICATIONS PAINTS

SACOME has a wide background designing and manufacturing heat exchangers to process paints, varnish and other coats for the automotive industry (pigments, resins, polyesters, etc.)

The corrugation in the inner tubes helps to increase meaningfully the thermal performance and this leads to smaller and more compact equipment to suit the clients' specifications.



APPLICATIONS VACUUM GASES

A compact shell and tube condenser is an essential component of a steam jet vacuum system, in which its aim is to remove the condensable phase from the fluid stream, reducing the overall steam consumption.

These condensers are designed for efficient operation and optimized by our XIST software (by HTRI), and mechanically checked according to ASME Section VIII Div. 1 (with the PVELite software) or AD MERKBLÄTT, among others.

Materials such as carbon steel, austenitic or duplex stainless steel can be furnished according to the client's requirements.



APPLICATIONS WASTE WATER, SLUDGE & SEWAGE

In many processes involving liquid with high content of suspended solids, it is necessary to do the heating or the cooling of the product to reduce the activity of some microorganisms or to do the separation of the different solid-liquid phase in a later step (i.e. in a centrifugal decanter) among other purposes.

Sometimes, this waste water can be even used to pre-heat the water going to the process getting a large energy recovery and getting a meaningful saving in the energy consumption.



APPLICATIONS BIODIESEL

With a society increasingly aware of the environment and sustainable production, the importance of the Biodiesel Industry is more than evident. Biodiesel is considered, with ethanol and biogas (methanol), one of the most important biofuels produced through the use of renewable resources, which is a vitally important factor in securing future energy supply, as well as Favoring the reduction of CO₂ emissions and environmental pollution.

SACOME has more than 60 references in applications for the production of Biodiesel with the most important multinationals in this sector.



APPLICATIONS

CIP

SACOME V SERIES heat exchangers are specially designed to do the heating of water or CIP solutions using steam or hot water as heating media. The excellent performance of these heat exchangers lies in the high levels of turbulence caused by the corrugation to the fluid circulating inside the inner tubes. This turbulence increases the thermal exchange, decreases the fouling and the required area is much lower than with smooth tubes. SACOME V-series heat exchangers are fully welded (no gaskets are required as in a plate heat exchanger) and manufactured in 316L stainless steel.

Given the high demand, SACOME V- Series heat exchangers are available on stock to give a quick answer to the client requirements. In addition, SACOME can dimension and manufacture a complete and customized CIP system to suit the client's needs.

INDUSTRIAL SECTOR

SACOME MAIN REFERENCES





sacome

ENGINEERING, DESIGN AND
MANUFACTURING SINCE 1978



CONTACT US!

Our Technical Staff shall be delighted to
provide you with detailed information



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