

# SHELL & TUBE HEAT EXCHANGERS



## PRODUCT OFFER

### SHELL AND TUBE HEAT EXCHANGERS FOR REFINERIES AND PETROCHEMISTRY

FAMET owns a long years experience in design and manufacturing of modern and reliable heat exchange equipment. FAMET GROUP companies specialize in deliveries of shell and tube heat exchangers consistent with design and technological requirements indicated in TEMA standards. Besides refineries, petrochemical and chemical industry, offered heat exchangers are generally used in power industry, heat engineering and gas industry.

Heat exchangers offered by FAMET comply the wide range of constructional types, both in single-pass and multi-pass system.

#### EXCHANGER TYPE SELECTION:

- HELICON baffled® heat exchangers
- MONOLITH baffled® heat exchangers
- Heat exchangers with straight tubes and fixed tube sheets
- Heat exchangers with u-tubes
- Heat exchangers with straight tubes and floating head
- Grid type heat exchangers
- Evaporators

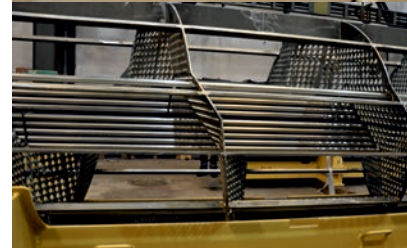
#### ENGINEERING:

- Technical advise
- Process design (flow and thermal)
- Mechanical calculation (strength calculation of pressure parts)
- Technical documentation: acceptance, workshop and as-built

Documentation is carried out in accordance with: ASME (U, S), API 660, AD 2000 Code, WUDT 2003, EN 13445, KTA 14001, TEMA R, C, PED 2014/68/EU, GOST R.

#### DELIVERIES OF:

- Different types of heat exchangers depending on technical assumptions and applications
- U-tubes as heat exchangers components are carried out with:
- Test assembly of heat exchangers in manufacturing plant
- ASME (U, S), Lloyd`s Register, TUV, UDT approvals

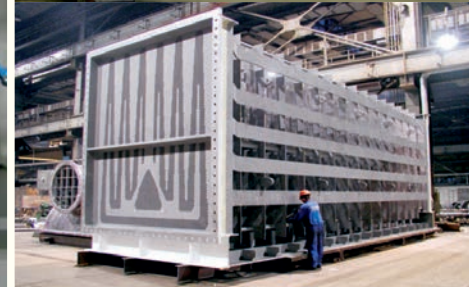


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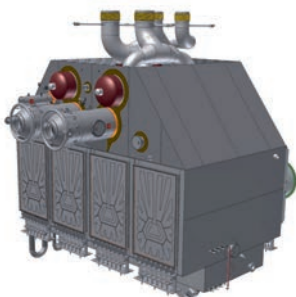
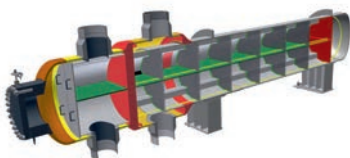
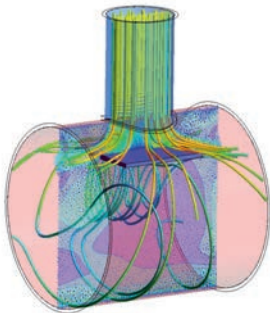
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## SCOPE OF ACTIVITY:



- EQUIPMENT SELECTION BY THERMAL AND MECHANICAL DESIGN
- MANAGING AND SUPERVISING OF PROJECTS
- TECHNICAL AND WORKSHOP DOCUMENTATIONS
- ASSEMBLY AND START-UP SUPERVISING
- TRAINING OF CUSTOMER PERSONNEL
- WARRANTY AND AFTER-SALES SERVICES

### FOR:

- AIR COOLED HEAT EXCHANGERS
- SHELL AND TUBE HEAT EXCHANGERS FOR POWER PLANTS, CHEMICAL AND PETROCHEMICAL PLANTS
- STEAM SURFACE CONDENSERS
- PRESSURE VESSELS (REACTORS, TOWERS ETC.)
- FEED WATER TANKS, CONDENSATE TANKS

### TECHNICAL DOCUMENTATION OF PRESSURE EQUIPMENT IS CARRIED OUT ACCORDING TO CUSTOMER'S TECHNICAL SPECIFICATION AND REQUIREMENTS OF:

- PED 2014/68/EC (EN 13445-3, AD 2000, WUDT 2003)
- GOST R ▪ ASME Sec VIII Div.1 ▪ TEMA R,C, API 660, API 661

### SOFTWARE USED FOR EQUIPMENT SELECTION AND DESIGN:

- HTRI Xist, ASPEN Shell and Tube Heat Exchangers, ASPEN HETRAN
- CODEWARE – Compress, ASPEN Shell and Tube Mechanical
- HTRI Xace, ASPEN Air Cooled Exchanger
- CODEWARE Compress, Microprotol, VVD, Nozzle Pro
- ASPEN Fran
- HEI
- WUDT, AD 2000 i ASME, EN 13445-3
- Autocad 2010/2014
- Inventor AISI10/2008/2014
- Robot Millenium/Autodesk
- Ansys mechanical NLS
- Ansys CFD Flow

