

TUBULAR EXCHANGER

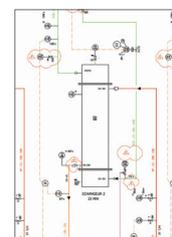
Specialized in heat transfer, ALLIA offers solutions adapted to specific markets and supports you from design to installation.

According to your demands, we can adapt our services from the means commitment to the performance commitment.



METHOD / THERMAL DESIGN

In accordance with the continuous and transitional operating conditions of your process, ALLIA defines the adapted exchanger (type, power, surface, number of passes...) as well as its integration in the process (regulation, control, safety).



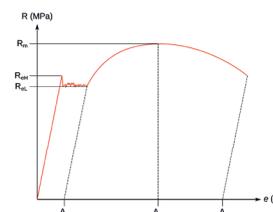
MECHANICAL DESIGN

According to the main construction codes: (TEMA, CODAP, EN 13,445, ASME VIII, Rostekhnadzor, RCCM, ADM), we realize the mechanical sizing (tube sheet thickness, shell, tubes...). We also realize the finite elements analysis for out-of-code equipment.



HEAVY DUTY DESIGN

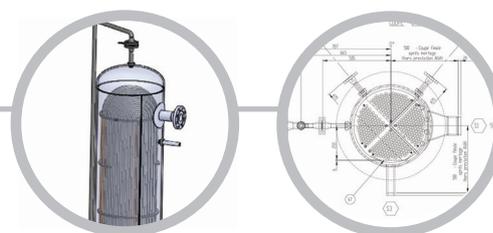
In order to adapt equipment to the most corrosive fluids, Allia specify the suitable materials (SS, titanium, exotic alloys...)



IMPLEMENTATION DRAWING

Based on the sizing, ALLIA realizes 2D or 3D detailed studies.

Parts list



MANUFACTURING

As part of a proven methodology, ALLIA realizes on its premises the studied units, carries out the Non Destructive or Destructive Controls, the tests and the quality follow-up in accordance with the fabrication codes and the customer specifications.



INSTALLATION

ALLIA teams perform the packing, the delivery and the installation in the most demanding environments (including procedures).

ALLIA ADDED VALUES



A unique combination of know-how to carry out turnkey projects

Operational project team,

All services in-house : design, fabrication, installation,

Reactivity & flexibility of a French company,

A single contact with overall performance / cost / deadline commitment.





SONATRACH / Liquefaction train GL1Z - Algeria

Vacuum steam condenser

Ø 3 300 x 12 500 mm - Weight: 30 T

2 334 tubes

Tubes and tubesheets in Cupro-nickel



PERENCO / Sanaga - Cameroon

Tubular heat exchanger skid - Gas / Sea water

Ø 572 x 7 014 mm

253 tubes

Tubes and tubesheets in titanium

Design pressure: 139 bar

Design temperature: 90°C



GE / Sostanj - Slovenia

Heater

Ø 1 200 x 11 500 mm - Weight: 14 T

526 tubes - Tubesheets: 135 mm

Design pressure: 45 bar

Design temperature: 240 ° C

PHOSAGRO / Cherepovets - Russia

Tubular heat exchanger - Steam / Carbamate

Ø 1800 x 16000 mm - Thickness 80 mm - Weight: 94T

2 000 tubes in SS316L - Tubesheets in SS316L

Shell with internal coating in SS316L

Design pressure: 9 bar / 163 bar

Design temperature: 200°C



BOREALIS / Grand Quevilly - France

Tubular heat exchanger - Water / Nitrous acid

Ø 4 800 x 10 000 mm - Weight: 60T

984 tubes - Ø50 - SS304L / 1269 tubes Ø25,4 - SS304L

Tubesheets in SS X2CrNi 18-9, 55mm



JSC AZOT / Kemerovo - Russia

Tubular heat exchanger - Steam / Carbamate

Ø750 x 10 000 mm - Weight: 10T

2 082 tubes in SS316L Urea grade

Tubesheets in SS316L Urea grade

Design pressure: 85 bar

Design temperature: 270°C

