



HOLGER ANDREASEN & PARTNER GMBH

OIL & GAS



Holger Andreasen & Partner GmbH is a renowned company with more than 40 years of experience in the field of shell and tube heat exchangers, pressure vessels and packages for industrial refrigeration systems and oil and gas applications.

Our headoffice is located in Vienna, Austria, where the design and construction department is located. Our production plant is located in Germany, near to Berlin.

We distinguish ourselves through innovative, state-of-the-art developments and solutions especially in the areas of NH₃ and CO₂ cooling systems. In recent years we had great success with our Flux Hi™ System. This spraycooler, specially developed by us, is used in over 350 plants worldwide as a CO₂ / NH₃ cascade or liquid cooler.

Another segment of our business are heat exchangers for corrosive media made of special materials such as titanium and copper/nickel.

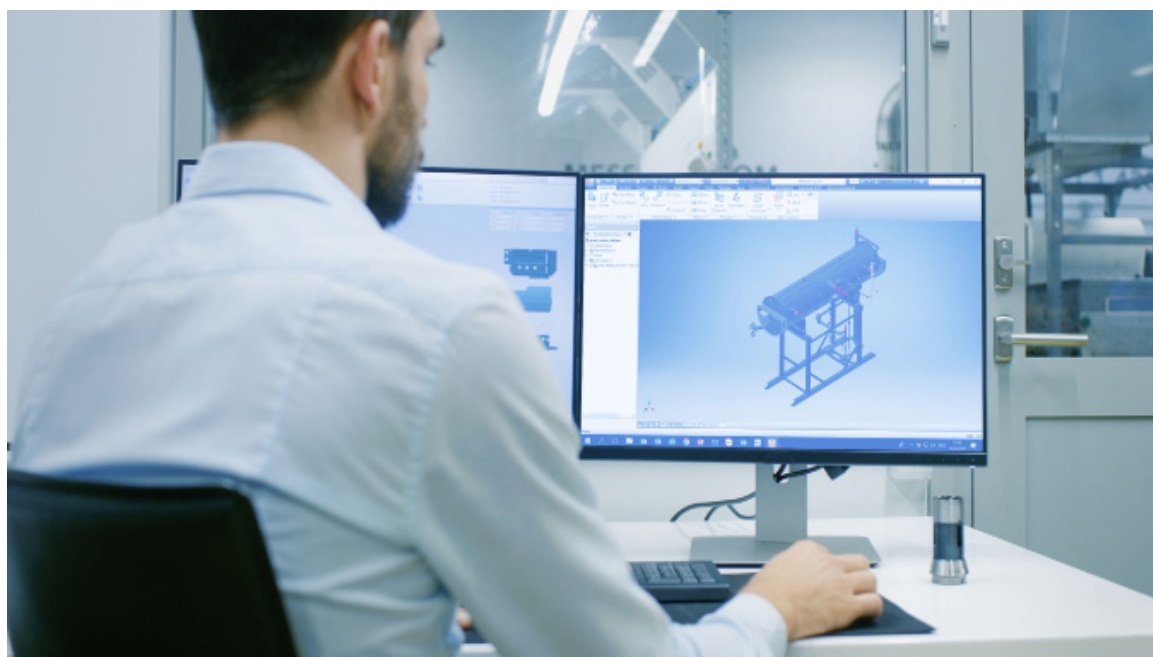
Our product range includes special designs in the fields of pressure vessels, shell and tube heat exchangers and oil separation, as well as the activity as an OEM manufacturer of oil coolers and oil separators for leading compressor manufacturers.

All our products are manufactured in our factory in Germany. On our 10.000 square meter large property, our production plant has a large work area of about 4.000 square meters and is equipped with a pressure chamber (10 m long), paint shop (15 m long), sandblasting chamber and overhead cranes up to 25t. Furthermore, we have a separate work area for our stainless steel production.

We are approved by leading approval companies and have a large number of inspection options in our production, such as X-ray and ultrasound.

Engineering

Our highly qualified and experienced team, as well as excellent know-how in the field of refrigeration technology, oil & gas and packaging has made us a specialist for the engineering of refrigeration components, energy recycling systems and special pressure equipment.



Design programs:

- Aspen Tech (Thermo dynamical Design)
- Autodesk Inventor (3D CAD+FEA)
- Ohmtech (Design code calc. for AD 2000, DNV, ASME div 1, LRS, EN13445)
- Nozzle Pro (Finite Elements)

Approvals: ASME U-Stamp, PED, DNV-GL, LRS, RMRS and EAC

Codes we are working with:

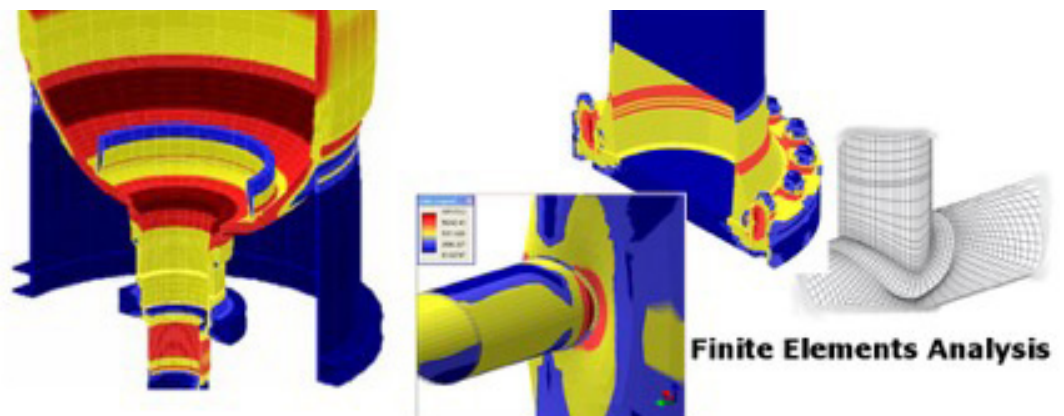
ASME VIII div.1 and div. 2
EN 13445
AD 2000
TR

Other codes (LR, DNV...) on request.

PQR's ASME: SMAW, GTAW, SAW, GMAW, 8-200mm, with and without heat treatment, P1G1 bis P1G1, P1G1 bis P1G2 and P1G2 bis P1G2

HAP benefits:

- 40 years of experience
- Competent advice for concept development
- Experience in high pressure applications (Pressure vessels up to 450bar HEX up to 250bar)
- Engineering
- Innovative solutions and technology
- Efficient systems
- High Quality
- Durable products



TUBULAR HEAT EXCHANGERS

APPLICATIONS:

Evaporators

Tube in tube safety heat exchangers

Condensers

Cascades

APPROVALS:

DNV-GL • ASME U-STAMP • LRS • PED • EAC • RMRS

MATERIALS:

Boiler- and Finegrained steel • Titanium • Copper • Stainless steel • Brass etc.

NON DESTRUCTIVE TESTING:

X-Ray • Ultrasonic • PT Testing • MT Testing • HIC Test for plate materials • Hardnesstesting after welding
• Zero Point Messurement

PRESSURES:

up to 250 barg

WEIGHT:

up to 50 tons



Evaporator for Propylene

PRESSURE VESSELS

APPROVALS:

DNV-GL • ASME U-STAMP • LRS • PED • EAC • RMRS

DESIGN CODES:

AD 2000 • ASME VIII div.1/2 • EAC • EN 13445

MATERIALS:

Boiler- and Finegrained steel • Titanium • Copper • Stainless steel • Brass etc.

NON DESTRUCTIVE TESTING:

X-Ray Testing • Ultrasonic • PT Testing • MT Testing • HIC Test for plate materials • Hardness-testing after welding • Zero Point Measurement

PRESSURES:

up to 500 barg

WEIGHT:

up to 50 tons



Droplet Separator for CNG



Storage vessels for Hydrogen, Design pressure: 450barg

PULSATIONDAMPERS

APPROVALS:

DNV-GL • ASME U-STAMP • LRS • PED • EAC • RMRS

DESIGN CODES:

AD 2000 • ASME VIII div.1/2 • EAC • EN 13445

MATERIALS:

Boiler- and Finegrained steel • Titanium • Copper • Stainless steel • Brass etc.

NON DESTRUCTIVE TESTING:

X-Ray Testing • Ultrasonic • PT Testing • MT Testing • HIC Test for plate materials • Hardness-testing after welding • Zero Point Measurement

PRESSURES:

up to 500 barg

WEIGHT:

up to 50 tons



Pulsationdampers for Sour gas application with heating coils

REFERENCES

OIL AND GAS APPLICATIONS

Total France: Pulsation dampers acc. AD 2000, Plate Material full HIC tested, integral Flanges, for HIC application; pressures up to 6 MPa



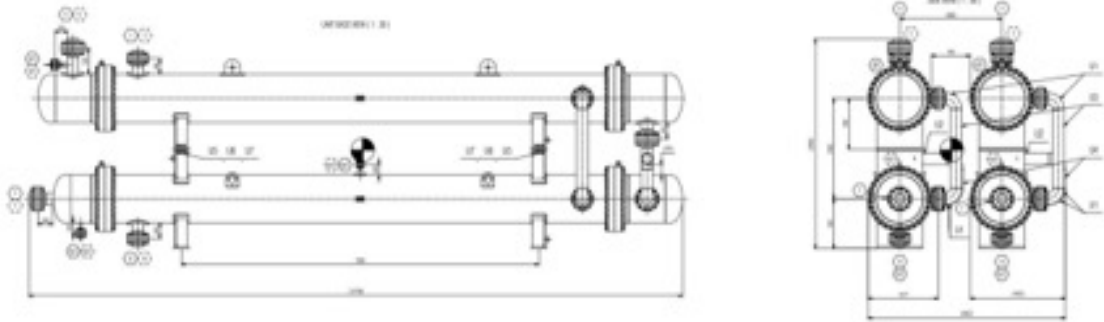
Project MND: Natural Gas conditioning plant cooling of gas from terrestrial storage, design pressure: 98 barg



Project Sourgas: 24 Pulsation dampers acc. ASME VIII div.1 for HIC application, design pressure up to 270 barg



Project North Stream: Natural Gas conditioning plant cooling of gas before transport in pipeline;
design pressure gas side: 9.4 MPa



Project OMV Schönkirchen: 14 Pulsationdampers and Separators for HIC application acc. AD 2000



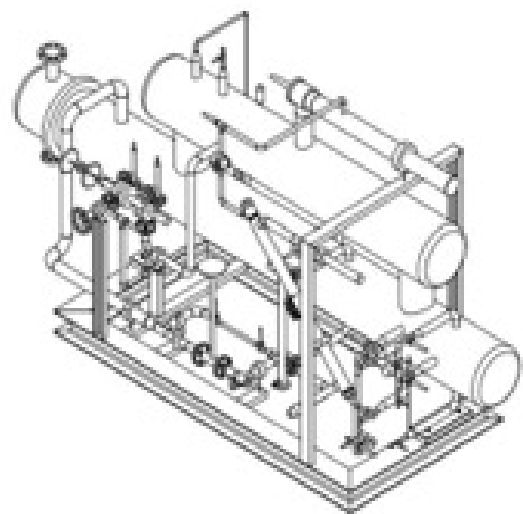
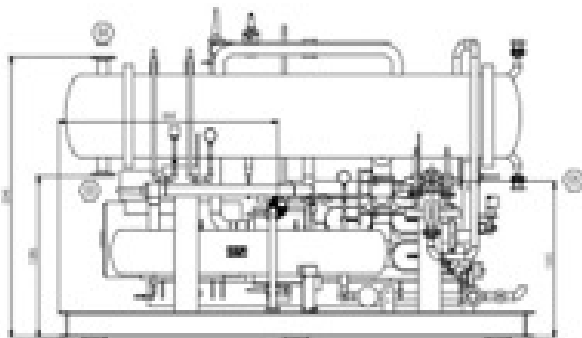
Project Rosneft Propane/Propylene Plant: Gas coolers (Shell and Tube 3,5MW Capacity each)
and Separators acc. EN 13445 and GOST



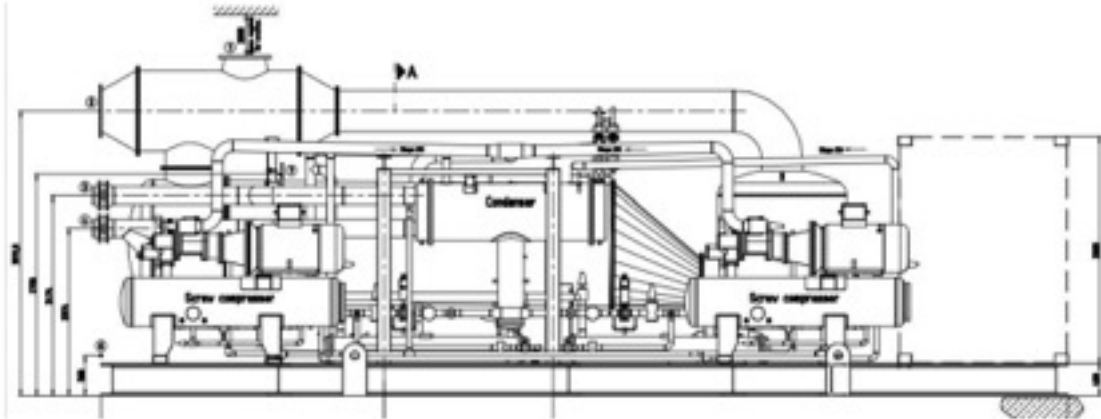
Project Olefin Plant:
Propene condensers and evaporators 20640kW each
Evaporator with top mounted separator
Design Code: ASME VIII div.1



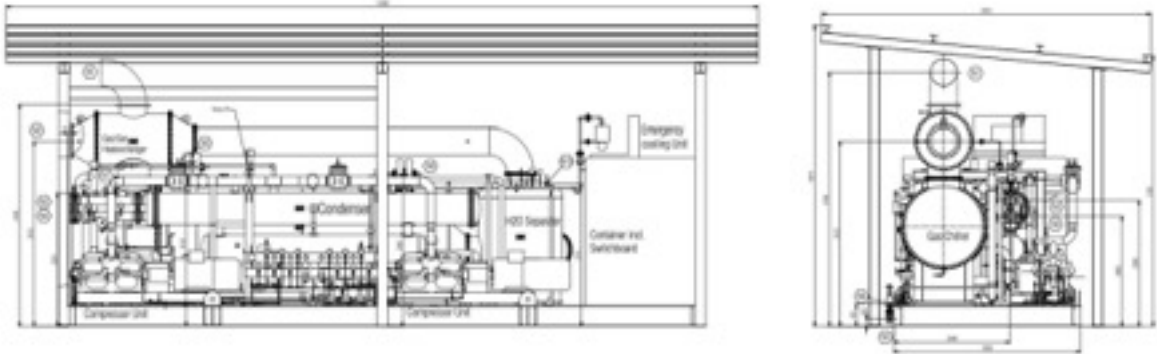
Project OMV-Skids Propylene Plant: 2 Skids complete with piping



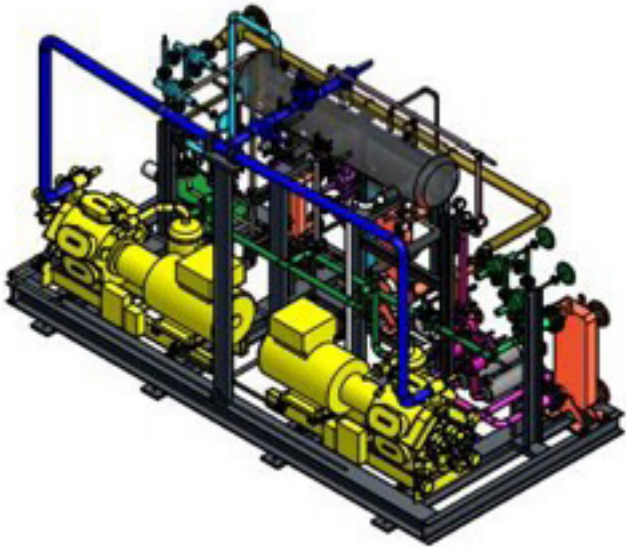
Project Jindal Steel: Shell and tube gas coolers mounted on skid



Project Beshay Steel: Shell and tube gas coolers mounted on skid



OMV Butadien Unit: LxBxH 5x2,4x3,4m



Project Sibur Portenergo: Cooling plant for Propane / Butane tank storage 16 Shell and Tube Heat exchangers, 7 vessels (Ø2600x6000), all items assembled in 10 skids (including piping).



Further clients:

**AKZO Nobel
Shin-Etsu
BASF
BAYER
JCI
GEA
Viking
LMF
Grasso
Technip
OMV
Grenco
SCHIESSL
Rosneft**

**Gazprom
BioEnergo
National Chlorine
HAFI
Parker
Linde
Cofely
Mayekawa
ShinETSU
Shell
BP
...**



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