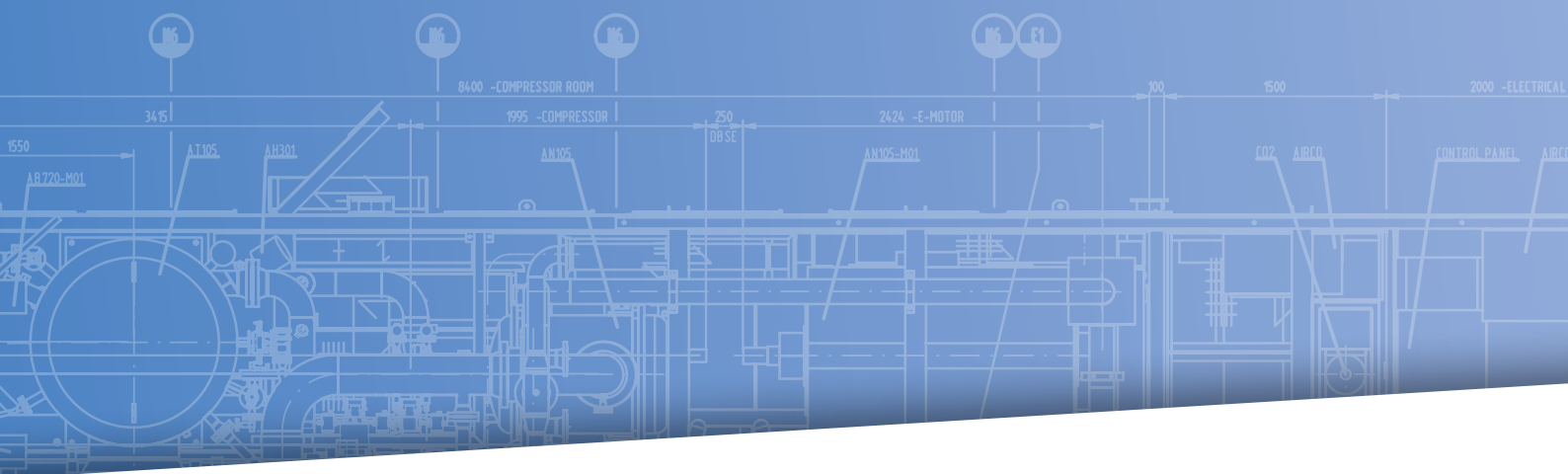




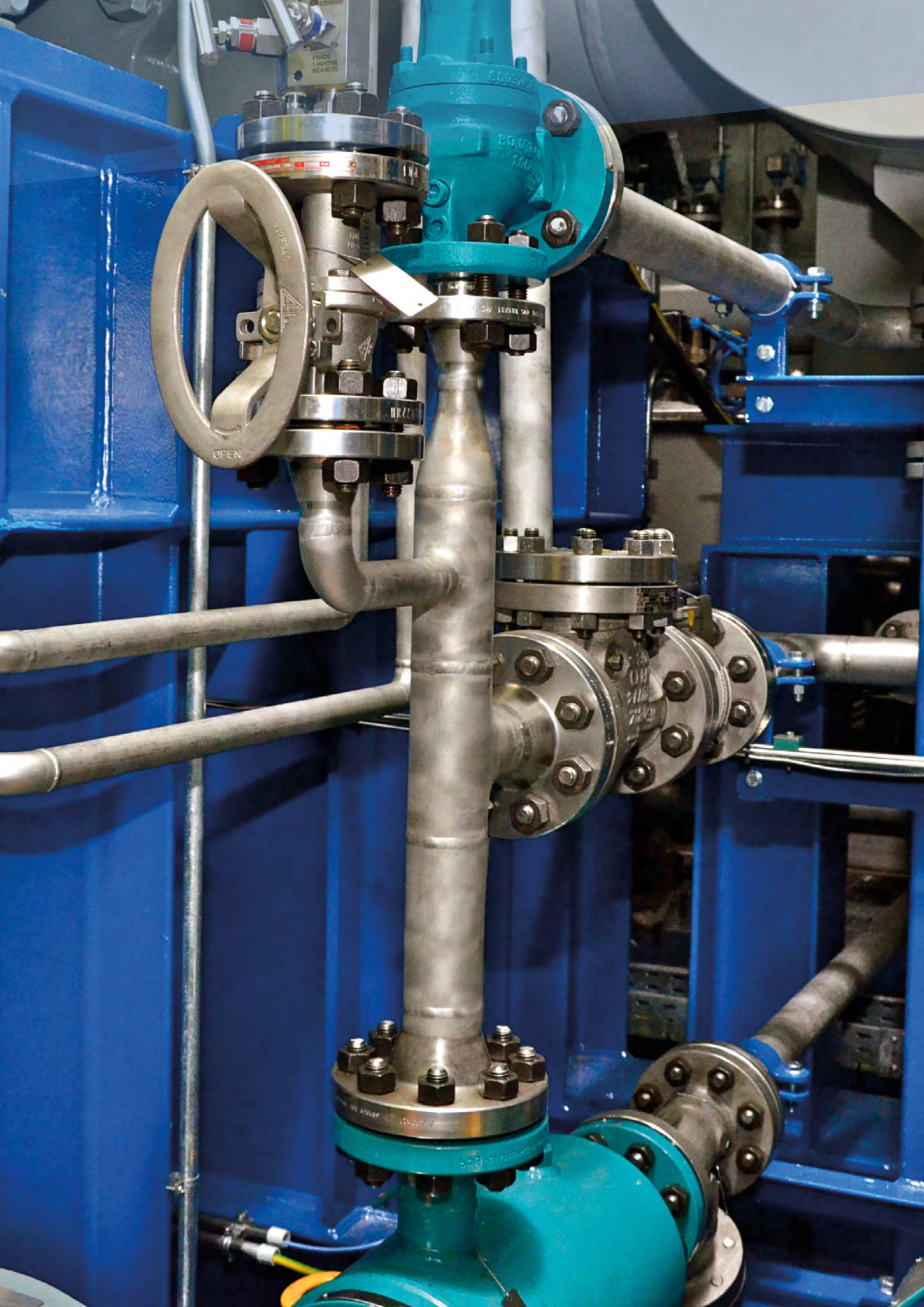
## COMPANY PROFILE

GAS COMPRESSION  
GAS TREATMENT  
ENGINEERING



**ELTACON**  
ENGINEERING BV





## OVER 30 YEARS EXPERIENCE IN ENGINEERING

Eltacon Engineering is an independent engineering contractor since the year 1987. Eltacon is situated in Waddinxveen, The Netherlands, close to Schiphol airport and Rotterdam/Antwerp harbour.

Our mission is to preserve our independency and company identity by maintaining our high quality products and services. Over the years, Eltacon has obtained an excellent reputation in the design and fabrication of tailor made equipment. We supply equipment according our own quality standards as well as according international and specific customer specifications.

"With 30 years of experience in engineering, Eltacon develops client specific units according the provided specification and enquiry"



### TREATMENT & TRANSPORTATION OF GASSES AND OIL

Eltacon is specialised in the treatment & transportation of gasses and oil related fluids for various applications. By combining our skills and knowledge of processes, mechanical and electrical applications, we deliver products and services for the international industry. We have special capabilities in design, engineering, manufacturing, delivery and commissioning. Products and services are available as partial solutions as well as total solutions or specific services.

### QUALITY REQUIREMENTS

Depending on project requirements, an overall quality-plan will be developed with the client and thereafter strictly adhered to. All personnel is certified for their duties (e.g. welders, NDT personnel etc.) and appropriate design standards are used during design & manufacturing phases.

### SAFETY REQUIREMENTS

The packages will be designed and constructed to ensure safe and proper operation by personnel and conform international environmental standards.

### SERVICE AND ASSISTANCE

Eltacon develops products and services to adopt customers' concerns during commissioning, start-up and operation of equipment. Technical modifications or operational adjustments caused by changes in operating philosophy or related to changes in (local) regulations can be covered in a contractual relation with Eltacon.

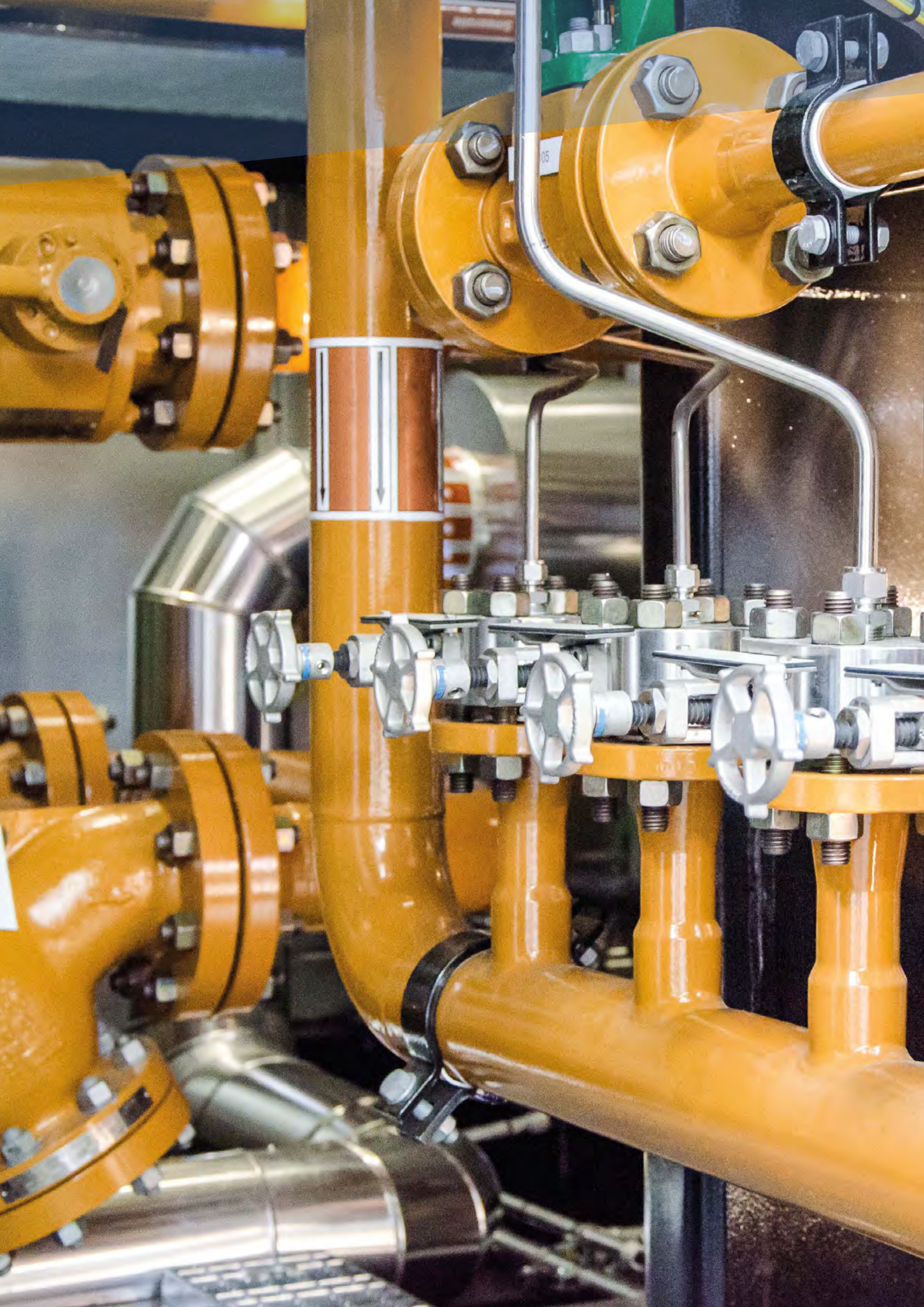


ISO 9001  
ISO 14001  
ISO 45001  
**BUREAU VERITAS**  
Certification



We are ISO 9001, ISO 14001 and ISO 45001 certified and we are qualified for module D, D1, H & H1 according Pressure Equipment Directive 2014/68/EU.





## PRODUCTS

Eltacon has a wide range of products related to the petrochemical industry. With 30 years of experience in engineering, Eltacon develops client specific units according the provided specification and enquiry.

We deliver the following products

- Gas Compressor Packages
- Fuel Gas Booster Compressors
- Wellhead Compressor Systems
- Gas Treatment Systems



## ADVANTAGES

For end-users, EPC contractors, turbines manufacturers and other clients Eltacon delivers high quality products with flexible services. The technical solutions are based upon proven design and reliable products and will contain a complete solution based upon the wide range of products.

The company itself is very flexible and able to meet the variety of requests from the market. Most clients are constantly striving for new solutions to minimize environmental impact. Conversely, their goal is to maximize productivity while generating a reliable supply of energy. Thanks to many years of experience and know-how Eltacon can meet the market demands and other requirements.

## WORKSHOP

The workshop contains 3.000 m<sup>2</sup> for final assembly and testing of all sizes of units and products. A clean working environment as well as internal procedures ensure safe and high quality operations.

## GAS COMPRESSOR PACKAGES



## GAS TREATMENT SYSTEMS



## OTHER SKID MOUNTED UNITS







## GAS COMPRESSOR PACKAGES

**For almost three decades Eltacon had designed, manufactured, tested and delivered various types of gas compressor packages for numerous reputable end-users and turbine manufactures. Eltacon supplies gas compressor packages in a wide range of alternative executions, based on oil-injected twin rotary screw compressors.**

Being an indepent packager Eltacon selects the best available model and size of compressor using the product range of international recognized manufacturers such as Howden, GEA Grasso and Kobelco.

Compression systems are used for pressurizing fuel gas and process gasses. The choice for oil injected screw type is based on the better economics and the higher compression ratio compared to other type compressors.

At Eltacon the compressors are "categorized" in accordance with the service they are designed for. Based on this Eltacon has the following main groups:

### Fuel Gas Booster Compressors

The fast reacting compressor systems are especially designed for Gas Turbine application. The low gas pulsations and low pressure fluctuations enable reliable and efficient operation.

The stand-alone systems include fuel gas treatment in the discharge of the compressor to minimize oil carry-over.



### Typical Gas Compressor range of Eltacon

- Gas inlet between 1 bara and 40 bara (15 psia and 600 psia)
- Gas discharge pressures up to 60 bara (900 psia)
- Pressure ratio from a minimum of 1,2 up to approx. 22 (pending composition of gas)
- Maximum "swept" volume approx. 6.000 m<sup>3</sup>/h
- Installed motor power up to 3.500 kW
- Capacity control by means of sliding-valve and/or frequency-convertor



### Wellhead Compressors

Wellhead compressors are used to extend the lifetime of a nearly depleted gas well. Inlet pressures may vary from 6 bara down to 1,1 bara.



### Other Gas Booster Compressors

- Vent- or flare-gas compressors
- Associated-gas compressors
- Off-gas compressors







## GAS TREATMENT SYSTEMS

**Eltacon supplies gas filter units in a wide range of executions; all based upon ELT filter elements (e.g ELT-110, ELT-120 being coalescing filters and ELT-315 being a particle filter) in several standard configurations.**

### Typical gas flow ranges

- From 2.000 to 15.000 Nm<sup>3</sup>/h for (single) turbine outputs from 5 to 60 MW.
- up to 30.000 nm<sup>3</sup>/h for power plants up to 200 MW (with multiple turbines).



All standard configurations are available in carbon steel, low temperature steel and stainless steel for both the filter housing and piping. Standard connection sizes are 1" to 8" and pressure rating from 150# to 900#.

Besides this standard range of filter units Eltacon is also capable of designing and manufacturing specialized fuel gas treatment packages in various executions to customer specific requirements and specifications.

Furthermore Eltacon is experienced in designing and manufacturing units suitable for a wide range of harsh environments, ranging from arctic to desert or off-shore conditions.

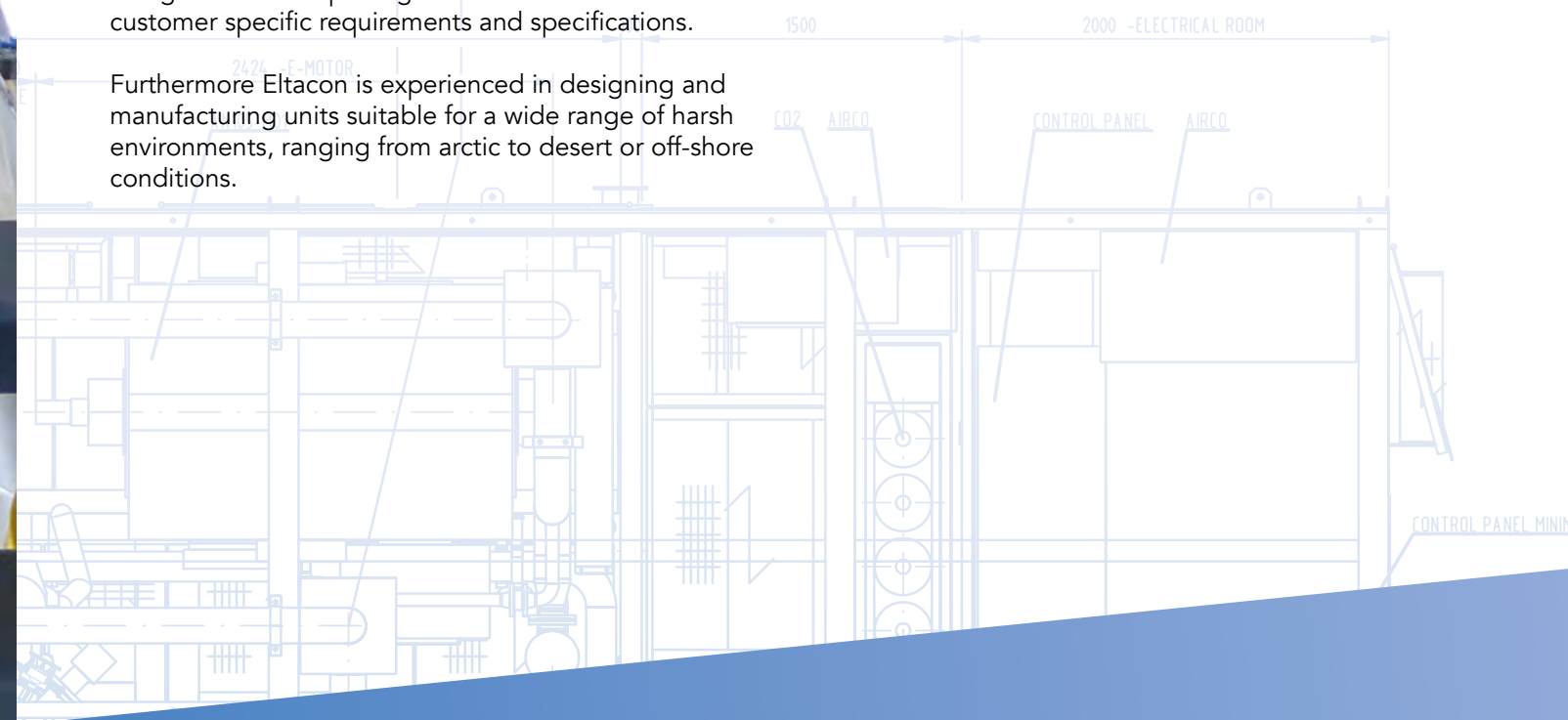
### Fuel Gas Treatment Systems include

- Knock Out drums
- Filter / separators
- Gas heaters
- Pressure reduction
- Flow metering runs
- Unit Control Panels
- Gas mixing



The standard gas filter units are usually designed according ASME B31.3 and ASME VIII div. 1 and can be supplied with, but are not limited to, the following certification;

PED / CE, DVGW / TA Luft / TRD, NACE MR0175, GOST / CU TR, ABS, DNV, ATEX / NEC / CSA / IECEX.





## Heating

For these applications Eltacon uses several techniques, like shell and tube heating or electrical heating, based upon the available utilities at site and feasibility.

- Dewpoint heaters
- Joule Thomson heaters
- Performance heaters
- Electrical heating
- Shell and (double) Tube heaters



## Pressure Reduction

For fuel gas pressure reduction Eltacon uses pilot self-operated reduction valves. The pressure reduction section is configured according EN-12186, using active- and monitoring valves as well as slam shut valves for additional safety.



## Flow Metering

For process monitoring, custody transfer or other applicators Eltacon delivers gas flow metering runs on separate modules or as part of the gas treatment installation.

The following methods are used

- Mass Flow metering with Coriolis flowmeters
- Volume flow metering by Turbine flowmeters
- Volume flow metering by Ultrasonic flowmeters
- Volume flow metering by Vortex flowmeters
- Volume flow metering by Orifice flowmeters

Flowmeters runs are delivered including required up- and downstream piping, instrumentation and flow computers.



## OTHER SYSTEMS & ENGINEERING

**Eltacon provides complete technical solutions for power plants and other gas related industries.**

**Besides the gas compressors and gas treatment systems, Eltacon supplies the following equipment as part of the balance of plant.**

### Intrument Air Systems

The Eltacon range of skid-mounted instrument air systems can be made for both in- and outdoor use.

This range is based on oil flooded rotary vane compressors and compressed air conditioning by adsorption dryers & filter sets.



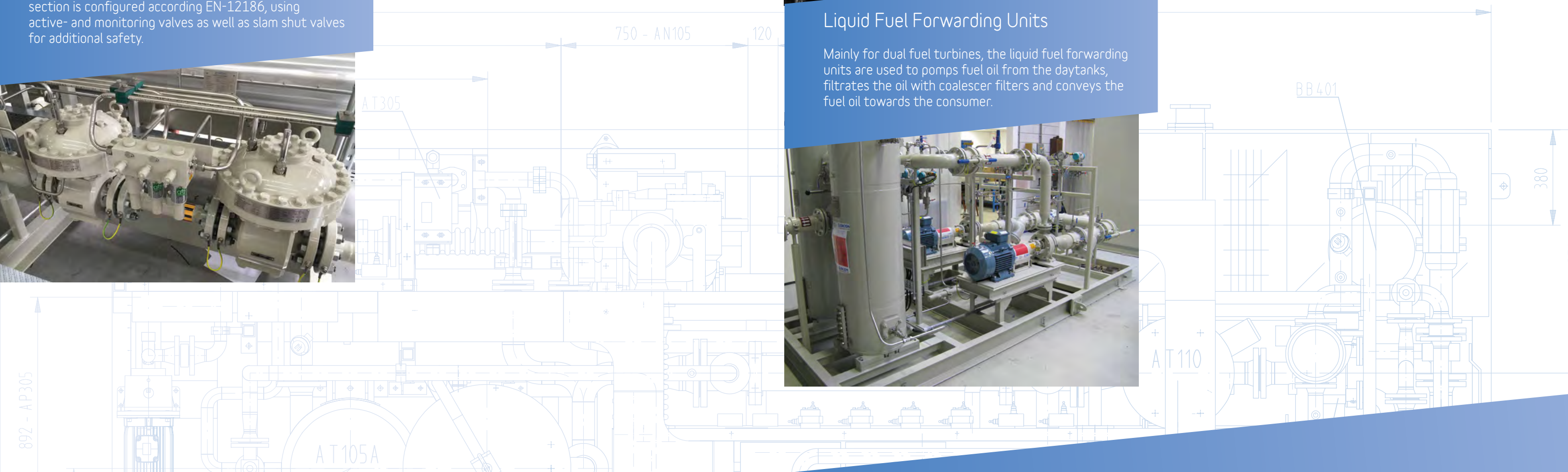
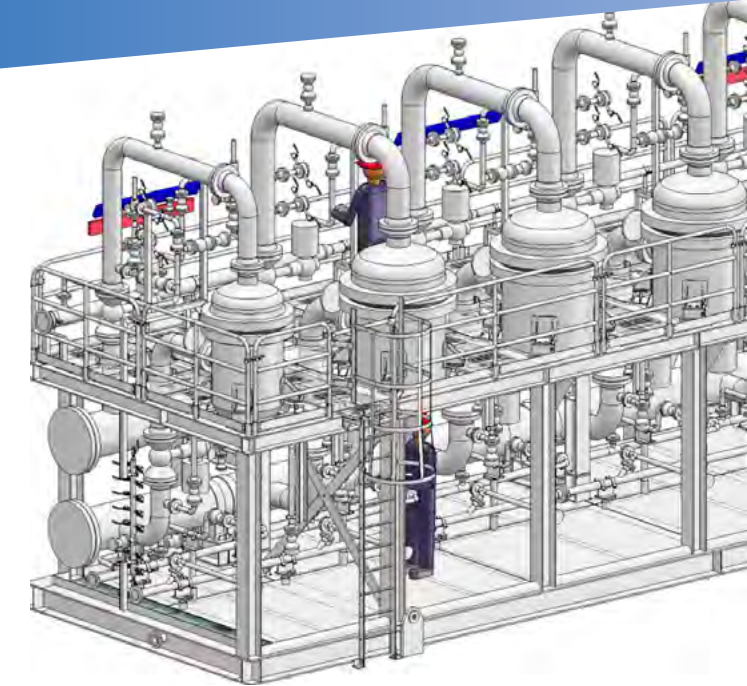
### Liquid Fuel Forwarding Units

Mainly for dual fuel turbines, the liquid fuel forwarding units are used to poms fuel oil from the daytanks, filtrates the oil with coalescer filters and conveys the fuel oil towards the consumer.



## Engineering

For all skid mounted units the engineering is done by experienced and skilled engineers, using 2D and 3D CAD software as well as certified calculation software.



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