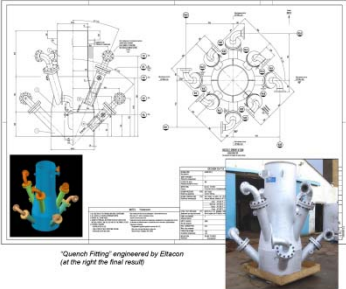



Company Profile of **ELTACON** ENGINEERING BV

Engineering and Packaging
by
ELTACON
ENGINEERING BV




"Quench Filling" engineered by Eltacon
(at the right the final result)

Gas Compressor Packages
supplied by
ELTACON
ENGINEERING BV




Three identical gas compressors installed on site in Latvia



In operation in the U.K. In operation in Russia. During installation in Romania.

Gas Fuel Systems
supplied by
ELTACON
ENGINEERING BV




Unit under construction. Housing assembly.

The gas receiving station installed on site (at the right)


Air Compressors
supplied by
ELTACON
ENGINEERING BV

Air compressor packages




Oil-lubricated units (E-motor driven)
Oil-free 2-stage units (2x E-motor & 1x steam turbine)
Oil-lubricated emergency unit (Diesel engine driven)

Instrument air systems




From left to right:
- Small instrument air systems with water type compressors
- System with oil-free screws
- System with oil-lubricated screws

Service and Assistance
by
ELTACON
ENGINEERING BV



Maintenance in Africa. Commissioning in Venezuela. Testing in Kazakhstan.



Commissioning and start-up in Latvia

Service@Eltacon.com

Eltacon Engineering B.V., located in Waddinxveen, The Netherlands, is an independent engineering contractor for the chemical, petrochemical, and related industries since the year 1987.

We are ISO-9001 and ISO 14001 certified and qualified for module D, D1, H & H1 according Pressure Equipment Directive 97/23/EC.

Eltacon Engineering 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 together with our capabilities in design, engineering, manufacturing, delivery and commissioning we deliver products and services for the International industry.

Products and services are available as partial solutions as well as total solution or specific service. Some examples of our product range on design and manufacturing of custom build packages are:

- Gas compressor packages
- Gas fuel units and liquid fuel systems
- Metering skids for gasses and fluids
- Instrument air compressor packages
- Air compressor packages (*tailor-made*)

Quality requirements

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

Safety requirements

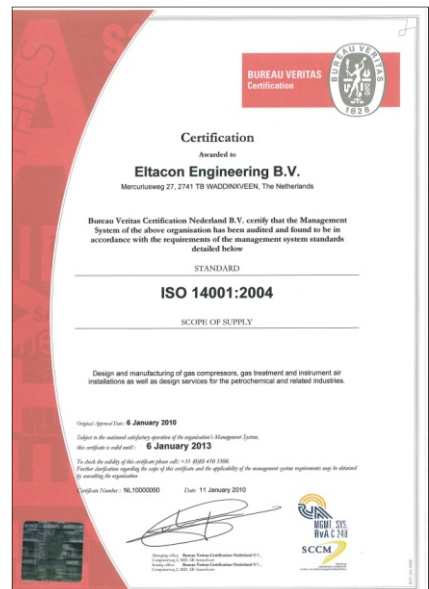
The packages will be designed and constructed to ensure safe and proper operation for operating personnel and for the environment according international standards.

Standards and codes

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.



ISO-9001 Certificate



ISO-14001 Certificate



Certificates for D, D1, H & H1 according pressure equipment directive 97/23/EC

Gas Compression Packages

Compression systems are used for pressurizing fuel gas and process gasses. Consumers such as gas turbines, reformers and grids may require higher supply gas pressures into their loops than locally available.



Three identical Eltacon fuel gas booster compressors in Riga – Latvia.

Each compressor unit has an oil-lubricated screw compressor driven by an 11 kV, 1400 kW E-motor driver. Gas is being compressed from 6 barg up to 29 barg. Capacity 3x 12.000 kg/h. The compressor systems are used for gas boosting to gas turbines model SGT-800.

The gas receiving station (at the right) is also part of the Eltacon scope of supply.



Two identical Eltacon fuel gas booster compressors in Sochi – Russia, each with an oil-lubricated screw driven by a 3 kV, 650 kW E-motor. Gas is being compressed from 9 barg up to 27 barg. Capacity 2x 7.763 kg/h.



Package with 1130 kW E-motor. 20.000 nm³/h from 4 to 26 barg.



Eltacon off-gas compressor package. Year of construction 1995

Gas fuel units

Since 1988 we delivered various types of gas fuel units for numerous national and international reputable customers.

Besides the "standard" range based on the ELT-110 filter elements we also supply larger, extended gas fuel units and fuel oil conditioning units.

The design of each fuel system is based on the specific requirements of the consumer and the environment in which it is expected to operate. To meet those requirements we have various fuel systems available, which can be used in combination with each other or can operate as a stand-alone unit (in single or dual execution) with either standard and/or special materials.

We designed and manufactured an extended range of fuel gas skids for filtering, heating, cooling, reducing, (fiscal) metering, and all possible combinations.



Above three extended gas skids with KO-vessel, 2x 100% particle and 2x 100% coalescing filter, electric heater (with thyristor control panel), stainless steel piping & vessels and a flow meter



Above at the left gas pressure reduction station with 2x 100% streams for gas turbine and auxiliary boilers. Gas flow 50.000 nm³/h, footprint 8,5 x 2,5 meters.

Above at the right a fiscal metering and pressure reducing station for various gas turbines and auxiliary boilers. Gas flow 100.000 nm³/h, footprint 12 x 8 meters.

At the right a liquid fuel system, with two (100%) oil conditioning lines each with fuel pump, coalescing filters, valves, controls etc. for liquid-fuel firing of dual-fuel gas turbines.



Air compressor packages

Eltacon designs and fabricates air compressor packages using oil-flooded and oil-free screws. Driven by E-motors, diesel- or gas engines as well steam turbines.

We supply air compressors for utility air, instrument air systems, as well as back-up systems.



Three oil-free compressors on a site in Venezuela. Two units with a 350 kW E-motor & one unit with a 325 kW steam turbine. In operation since 1998.



Three air compressor packages during testing. Each package includes a 2-stage oil-free screw that is driven by a 5,5 kV / 510 kW E-motor.



Typical tailor-made diesel engine driven (back-up) compressor package including an oil-flooded screw.



A set of three units on location in Algeria (picture taken during operator training in 2011) each unit with a 160 kW E-motor driven oil-free 2-stage screw.

Instrument air systems

Over the years, we have supplied a variety of instrument air packages suitable for in- or outdoor use. We supply systems suitable for desert conditions at + 55 °C ambient as well as containerised systems suitable for ambient temperatures down to – 50 °C.

Instrument air systems are based on the use of oil-lubricated vane or screw type compressors as well as oil-free screw (two-stage) compressors. Conditioning of the compressed air by adsorption dryers and filter sets.



Instrument air system including vane-type compressors



Three identical instrument air systems (incl. housings).



Instrument air system including oil-free screw compressors.

Engineering and Packaging

We offer third party engineering and packaging. This additional service is based upon specific knowledge and skills within our organisation. Third party engineering is based upon our knowledge and experience with mechanical, electrical, and process engineering.

Engineering

From the start in 1987, Eltacon Engineering B.V. has performed engineering and project activities for a large number of small and medium size projects for numerous national and international reputable customers.

The highly qualified staff of engineers, designers and draftsman enables us to offer "in-house" engineering in all important disciplines like:

- Mechanical engineering (structural steel, piping, pressure retaining equipment).
- Rotating equipment engineering.
- Electrical, instrumentation and system control engineering.
- Procurement, inspection and expediting as well as QA/QC.
- Drafting and CAD.



Packaging / Project management

Packaging is based upon our practical and theoretical experience regarding skid mounted "packaged" units. Basically all types of equipment can be packaged according your standard and international requirements.

At the right an oil-free reciprocating type of compressor packaged by Eltacon for a Japanese client to allow them to comply with European rules and regulations

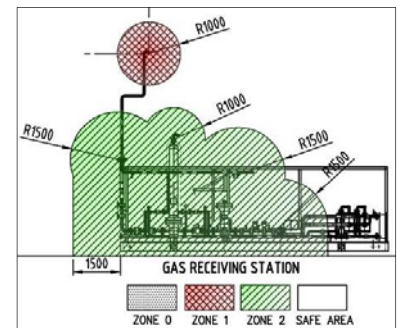


Consulting (ATEX)

Eltacon assisted over the past various companies regarding hazardous area classifications due to explosive atmospheres and the associated risks.

These consults can be done in two steps.

- Area classification summarizes associated hazardous areas and problem areas will be identified. Eltacon can provide a summary of solutions and costs estimates to resolve identified non conformities.
- If required we can offer and provide the required modifications of your installation to comply with ATEX directives, local laws and regulations and industry standards.



Control systems

Control systems are required for all electrical control or logic supervision in today's industry. The products and services we deliver are based on experience gained in designing for the (petro) chemical, onshore- and offshore-related industries. Eltacon has developed control system solutions, which have proved to be reliable in these markets.



We design, manufacture, test, and deliver control systems for all industries. Most of these systems form an integral part of complete projects and will be combined with our possibilities for service and operation.



Service and assistance

Eltacon Engineering B.V. has developed 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.

Eltacon has available field supervisors and commissioning engineers who will come to purchasers shop or job site to provide consultation and technical support.

ELTACON SYSTEMS
service@eltacon.com

Main activities by our service department:

- Assistance at commissioning & start-up
- Training of client's personnel
- Maintenance and repair
- Spare parts supply



Training and instruction to operators



On-site instruction during commissioning and start-up



Start-up of three (3) gas booster compressors.

How to reach us

Address: Eltacon Engineering B.V.
P.O. Box 413
NL-2740 AK Waddinxveen
The Netherlands

Visiting address: Eltacon Engineering B.V.
Mercuriusweg 27
NL-2741 TB Waddinxveen
The Netherlands

Telephone : +31 (0) 182 – 63 41 00
Fax : +31 (0) 182 – 63 59 17
General email : info@eltacon.com
Sales department : sales@eltacon.com
Service department : service@eltacon.com

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www.eltacon.com
to download the latest information
about our products and references.