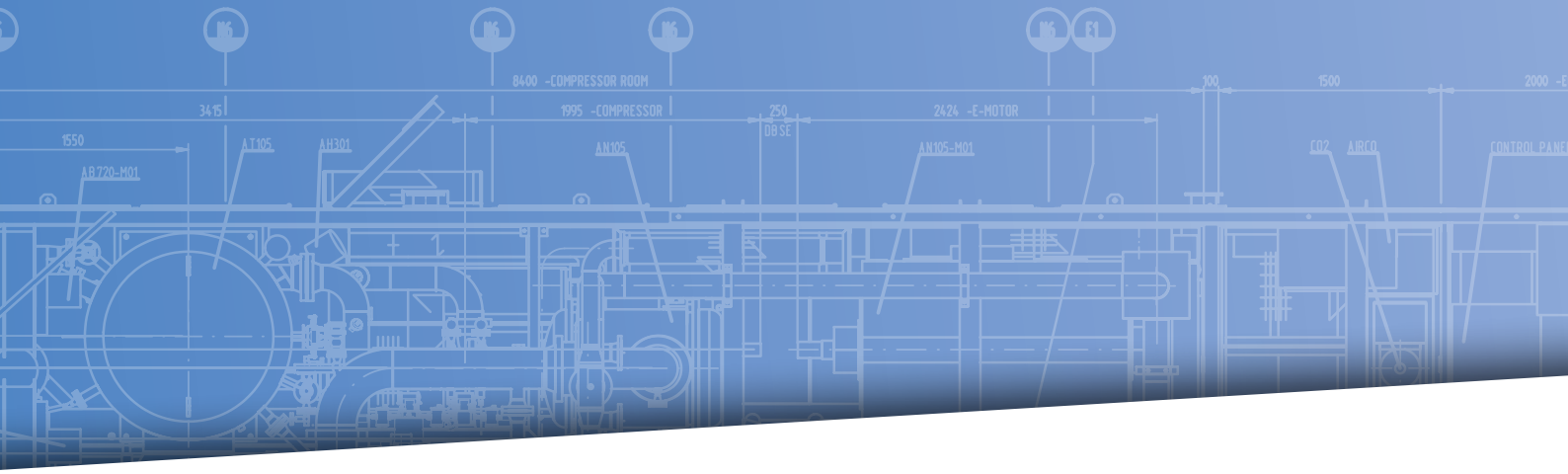
FUEL GAS BOOSTER COMPRESSORS

For more than 30 years Eltacon Engineering B.V. designs, constructs, tests and delivers fuel gas booster compressors for gas fired power plants. Eltacon supplies gas compressor packages in a wide range of alternative executions, all based on oil-injected twin rotary screw compressors. The choice for this type is based on the better economics and the higher compression ratio of the oil-injected screw compared to other type compressors.



ELTACON
ENGINEERING BV

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

As a standard all packages are designed and fabricated for outdoor installation. Built on a rigid base frame suitable for single point lifting, the units are equipped with a liquid tight reservoir to avoid leakages to the environment as well as a sound silencing enclosure. Floor grating and service doors are installed to provide maximum accessibility to the main components.

Optionally the units can be supplied with an "integrated" package control room, air-cooled cooling water systems, gas- & fire detection as well as a fire-fighting system.

Certification

- Complete CE certified units
- Pressure Equipment Directive 2014/68/EU
- ASME VIII Div. 1 pressure vessel design (including certification mark)
- Alternative vessel codes AD2000, EN 13445
- ASME B31.3 or EN 13480 piping
- Russian TR CU certification
- ATEX / IEC Ex certification

Service contracts are offered to maintain a high availability of the units. This includes replacement of filter elements and mechanical seals, yearly detailed inspection and 5-year overhauls.

Key Features

- Minimal vibrations
- Availability of >99,5% per year
- Robust design
- Minimal maintenance costs
- Flexible capacity regulation
- Adjustable compression ratios
- Unit Control by safety PLC S7-1500
- Automatic safety systems
- Proven quality, over 150 units in operation worldwide

Typical Range

- Gas inlet between 1 bara and 40 bara
- Gas discharge pressures up to 60 bara
- Pressure ratio from a minimum of 1,2 up to approx. 22
- Maximum "swept" volume approx. 6.000 am3/h
- Installed motor power from ≈ 75 up to 3.500 kW
- Capacity control by means of sliding-valve and/or frequency-convertor