ELT Fuel Gas Booster Compressor Packages
(for Gas Turbines up to 15 MW)

Three identical ELT fuel gas booster compressor packages installed on site in Romania.

Special Eltacon fuel gas booster used for a Gas Turbine testing facility.

Eltacon Engineering  During fabrication  Ready for shipment  Installed on site
For almost three decades Eltacon Engineering has designed, manufactured, tested and delivered various types of gas compressor packages for numerous reputable end-users and turbine manufacturers. In the early nineties we supplied units like ……

Today we supply a wide range of compressor packages, all based on oil-injected twin rotary screw compressors. The choice for this type of compressor is based on economics, higher compression ratio and capacity control.

Especially for gas fired power plants with gas turbines up to approx. 15 MW Eltacon has a range of fuel gas booster compressor packages based upon:
- Howden and Grasso screws (rotor diameters 163 up to 214 mm)
- Low voltage E-motors up to 355 kW

As a standard these "small" packages are designed and fabricated for indoor installation (or outdoor under roof installation). Optionally these units can be made suitable for outdoor (unsheltered) installation.

Typical range of "small" Fuel Gas Booster Compressors (green area) with flow in nm³/h & inlet pressure in bara.
This Eltacon range is based on:
- Gas inlet pressures between 1 and 24 bara (15 & 350 psia)
- Gas discharge pressures up to 30 bara (450 psia)
- Pressure ratio from a minimum of 1,2 up to approx. 22 (pending nature of gas)
- Minimum "swept" volume approx. 400 am³/h
- Installed motor power from ≈ 110 up to 355 kW
- Capacity control by means of frequency-convertor

Some of the recent references are shown on the next pages.

Assembly of four (4) fuel gas boosters

Note: We can supply multiple installations for gas fired power plants up to 400 MW (based on multiple GT's).

For the Eltacon range of "large" fuel gas booster compressors (for gas turbines up to 120 MW) we refer to our special brochure.
Fuel gas booster compressor for indoor installation
- Model : ELT 163/250
- Flow rate: 2.750 nm³/h
- Driver : 250 kW

Fuel gas booster compressor in the U.K.
- Model : ELT 163/250
- Flow rate: 2.400 nm³/h
- Driver : 250 kW

Three (3) fuel gas compressors in Belarus
- Model : ELT 177/200
- Flow rate: 2.900 nm³/h
- Driver : 200 kW

Two (2) associated gas compressors for Russia
- Model : ELT 128/200
- Flow rate: 1.350 nm³/h
- Driver : 200 kW

Three(3) natural gas compressors for Romania
- Model : ELT 163/132
- Flow rate: 3.000 nm³/h
- Driver : 132 kW

Six (6) associated gas compressors for Romania
- Model : ELT 163/220
- Flow rate: 2.500 nm³/h
- Driver : 220 kW
Associated gas compressors (outdoor under roof)
- Model : ELT 128/160 (two sets of two units)
- Flow rate : 1.000 nm³/h
- Driver : 160 kW

Five (5) associated gas compressors for Germany
- Model : ELT 90/75, ELT 90/90 & ELT 128/160
- Flow rate : 600 up to 2.400 nm³/h
- Driver : 75, 90 & 160 kW

Fuel gas booster compressor for Greece
- Model : ELT 125/155
- Flow rate : 2.200 nm³/h
- Driver : 155 kW

Typical 3D drawing of a small (water-cooled)
ELT fuel gas booster compressor package.

As a standard these small packages are water-cooled and designed and fabricated for indoor installation (or outdoor under roof installation). The Unit Control Panel to be installed in client's control room.

We can offer the following as an option:
- Special housing to allow outdoor (unsheltered) installation.
- Free-standing air-cooled water-coolers including auxiliaries (water pump etc.) to arrange the required cooling water for the gas compressor.
- Gas inlet filter (to ensure correct gas quality before entering the compressor)
- Gas discharge filter (last-change filters upstream gas turbines)

Note: Although not common for small units and therefore not advised by Eltacon we can (upon special request) also offer a top-mounted dry-cooler, fire detection & fire fighting and an integrated package control room.