



SPECIAL APPLICATION

Technically mature and long term experiences are the basis for individual solutions. We supply a wide range of special plants for emission-free SF₆ gas handling - exactly adapted to the requirements of our customers. We consider each new requirement as an exciting challenge we are pleased to meet.

SPECIAL PLANTS

Units for gas insulated lines (GIL)	198
Refrigeration units for gas insulated transformers (GIT) and accelerators plants	199
SF ₆ units for accelerators	200

■ UNITS FOR GAS INSULATED LINES (GIL)



For this special application we supply different high performance devices. Thus efficient handling of large volume GIL lines is no problem.

Product range:

- Compressed-air preparation plants for pressure tests on GIL
- Powerful vacuum pump units with Roots blower for evacuation of air (final vacuum < 1 mbar)
- Mixing and filling plants for homogenous gas mixture with an SF₆ percentage of 10 to 80 %
- High pressure recovery units (final vacuum < 1 mbar) for storage of gas mixtures up to 250 bar
- Large mobile filter units for drying gas
- Cylinder bundles for storage of gas mixtures



SF₆/N₂ mixing plant



REFRIGERATION UNITS FOR GAS INSULATED TRANSFORMERS (GIT) AND ACCELERATOR PLANTS

The essential advantage of our refrigeration units is that the cooling is carried out by means of water outside the transformer. This is to prevent the transformer from being damaged if leaks occur. The cooling systems can be connected to the gas insulated transformer directly and are optimally suited for continuous operation.

Components:

- Circulating pump: 30.0 m³/min
- 30 l dry filter with compressor
- Cooling capacity: ~ 45 kW



Refrigeration unit for cooling the SF₆ gas
in gas insulated transformers (GIT) and accelerators
(paint according to customer requirements)



■ SF₆ UNITS FOR ACCELERATORS



We also deliver custom-tailored solutions for the SF₆ gas handling of electron accelerators. Compared to the "normal" gas handling in the energy sector, larger SF₆ gas volumes - usually several tons - have to be handled in the field of electron accelerators. Therefore, high-performance system components as well as large supply lines (up to DN 100) are needed, so that the gas volume can quickly and effectively be filled from the storage tank into the accelerator and recovered again. The SF₆ gas is filtered during operation by aid of large filter units and dried at the same time.

On customer request we connect several accelerator units over the hall piping on the central gas handling plant.



SF₆ gas handling plant for an electron accelerator