

Typical Applications

- Transformer manufacturing
- Circuit breakers
- Electrical switch-gear
- Window thermal insulation
- Magnesium casting
- Sports Shoes

SF₆ is used around the world as a dielectric medium for high-voltage circuit breakers, switchgear, and other electrical equipment. Additionally, it is used for the filling of insulated windows and for the casting of magnesium. SF₆ is expensive and is also a powerful green house gas (20,000 times more potent than CO₂). GENERON® membranes allow SF₆ to be retained at high pressure (close to feed pressure) while permeating out the unwanted air.

GENERON;S® SF₆ recovery membrane systems help cut the SF₆ emissions by > 90% with a projected payback time of less than a year (for most applications). The customized SF₆ recovery membrane systems are fabricated in our ISO 9000 Certified facility in Houston, TX, while the membrane is fabricated in our Pittsburg, CA facility. GENERON works directly with the client to provide the most efficient and most cost effective solution.

The GENERON® Advantage

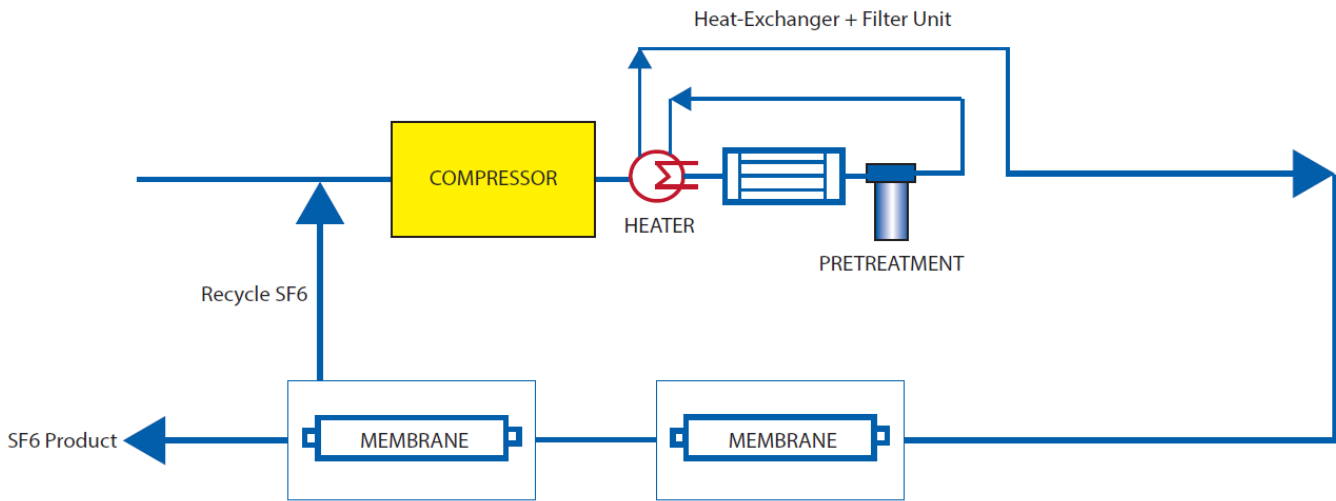
- **Extensive Experience** - Custom Designing
- **Simple Solution** - No Moving Parts, maintenance
- **State of the Art Membrane** - High Recoveries
- **No chemicals** - Environmentally friendly



SF₆ Recovery

GENERON® Membrane Technology

In a typical GENERON® membrane system for SF₆ recovery the feed gas is compressed and filtered to remove particles and condensate. A heating step provides an optimum operation temperature for the feed gas to enter the GENERON® membrane modules. SF₆ gas permeates extremely “slow” through the membrane walls and remains at pressure. The “faster” permeat-



The System Performance:

- Feed gas pressures up to 2000 psi (138 bar)
- <5 vol % SF₆ in feed
- > 90% SF₆ recovery
- Flow rates of 0.5 to 1,000 SCFM

In addition to membrane skids GENERON also provides:

PSA systems

Instrument air packages

Air and gas compression packages

Blowers

On-site oilfield services—operating personnel and rental equipment



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