

Typical Applications

- **Pipeline** gas applications
- **Biogas** or **digester gas**
- **Fuel gas** conditioning

Hydrogen Sulfide, H₂S, a highly corrosive gas, commonly found in natural gas, can cause corrosion in gas engines or turbines (if used as fuel) and gas transmission lines. H₂S has to be removed before the gas can be used as fuel or sent to the gas pipeline.

H₂S, can be easily removed from methane or light hydrocarbon gas streams by Generon's membrane systems. As an added benefit, the system also removes any water vapor and CO₂ present. GENERON® membrane systems effectively remove the H₂S, no matter how high the H₂S levels are.

GENERON supplies customized H₂S removal systems. GENERON® fabricates its own GENERON® membrane modules and works directly with the client to provide the most cost effective

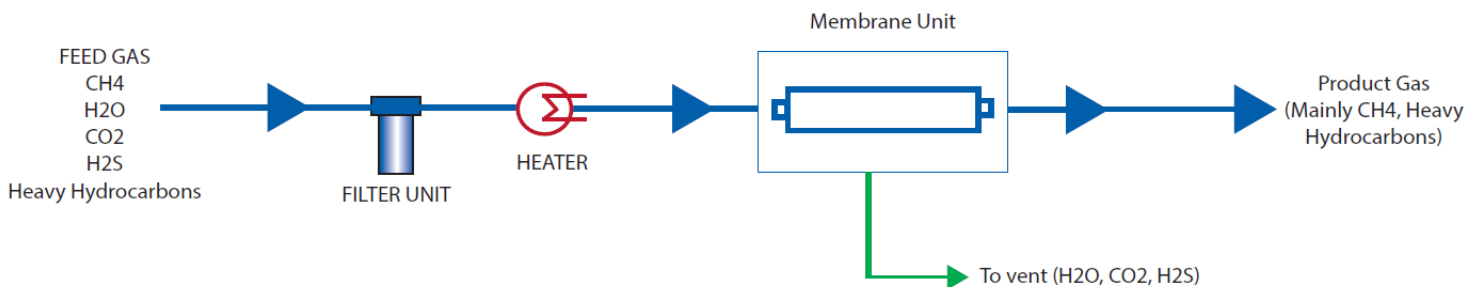


The GENERON® Advantage

- **Extensive Experience** - Custom Designed Skids
- **State-of-the-art Membrane** - High Recoveries
- **H₂O Removal** - No Additional
- **Remote Operation** - Minimal Attention Required - Fully Automated Systems

H₂S Removal GENERON® Membrane Technology

In a typical GENERON® H₂S removal membrane system the feed gas is first filtered to remove any particles and liquid condensate. The gas then enters the GENERON® membrane modules. The H₂S as well as any CO₂ and H₂O also permeate preferably through the membrane. The non-permeated gas, mainly CH₄ and heavy hydrocarbons, remains at pressure and is the product gas.



Advantages of MEMBRANE Systems:

- **No moving parts**, and designed for **remote unmanned operation**
- **Efficient packaging minimizes space and weight** — ideal for offshore applications
- **Custom designed systems** - maximize total hydrocarbon recovery
- **System flexibility** - Can operate at wide range of flow rates and H₂S Content
- **Quick deployment & quick Installation** - skidded system can be installed in hours
- **Advantages over scavengers**- membranes have lower operating cost, lower installation cost and do not require any bed changes every few months

The System Performance:

- Feed gas pressures up to 2,000 psi (138 bar)
- Flow rates from 0.01 to 500 MMscfd
- Treat wide range of H₂S in feed

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