

## Typical Applications

- Natural gas dehydration
- Cracked gas drying
- Polymer plant feedstock drying
- Olefin plant feedstock drying

Natural gas is generally saturated with water. Small changes in pressures and/or temperatures can cause condensation of the gas. This can lead to corrosion and hydrate formation. The gas generally needs to be dehydrated for better handling. Generon IGS supplies customized gas dehydration membrane systems. GENERON fabricates its own membrane modules and works directly with the client to provide the most cost effective solution.

Other options for gas dehydration require a molecular sieve desiccant type PSA (pressure swing adsorption) system or a liquid glycol absorption system which are complex and have high capital, operating and installation cost. There is also a high fuel cost associated with these systems as well as the potential to cause harm to the environment.

## The GENERON Advantage

- **Extensive Experience** - custom designed skids
- **State-of-the-art Membrane** - high recoveries
- **Simple Solution** - no moving parts, minimal maintenance
- **Remote Operation** - minimal attention required, fully automated systems
- **Minimal Losses** - low HC losses
- **No Chemicals**—environmentally friendly
- **Small Footprint**—easily meet requirements



In addition to membrane skids, GENERON also provides  
compressors and blowers

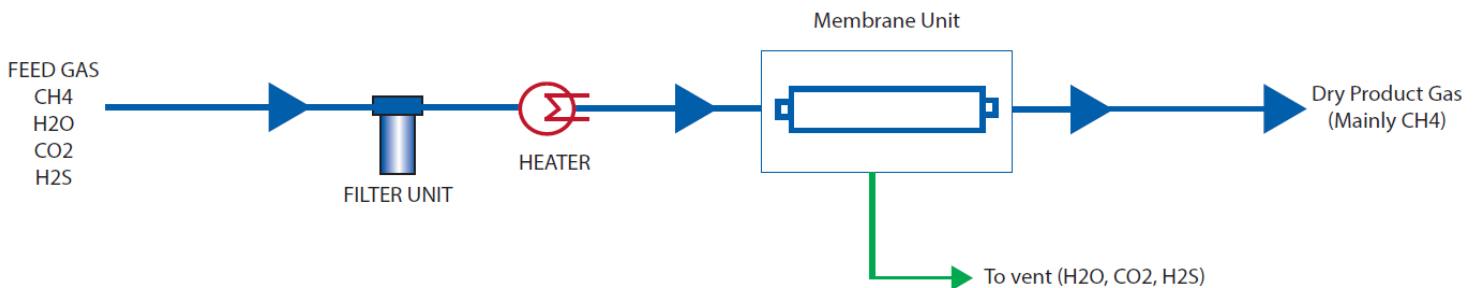
## Process Gas Gas Dehydration—GENERON® Membrane Technology

In a typical GENERON® membrane dehydration system the feed gas is first filtered to remove any particles and liquid condensate. The gas then enters the GENERON® membrane modules. The H<sub>2</sub>O as well as any CO<sub>2</sub> and H<sub>2</sub>S permeate preferably through the membrane. The non-permeated gas, mainly CH<sub>4</sub>, 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 a wide range of flowrates
- **Quick Deployment and quick Installation** - skidded system can be installed in hours



### The System Performance:

- Feed gas pressures up to 2000 psi (138 bar)
- Meet pipeline specification of 4 lbs/MMscf
- Dew point to -40 °F
- > 95% hydrocarbon recovery
- Flow rates from 0.01 to 500 MMscfd

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