



Typical Applications

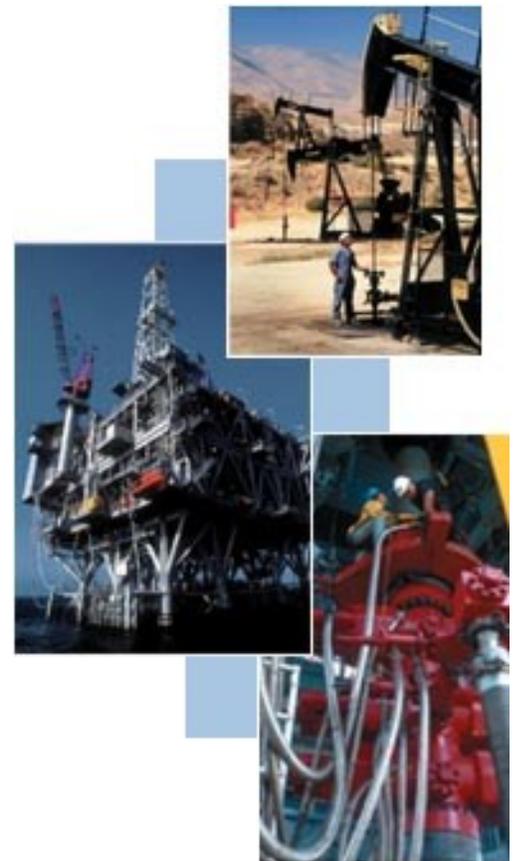
- CO₂ capture from stack / flue gas
- CO₂ removal from bio gas or digester gas
- Enhanced oil recovery (EOR)
- Fuel gas conditioning
- Syn gas from steam-reforming of natural or bio gas
- Methanol cracking
- H₂-PSA purge gas
- Methanol production
- gasification plants (IGCC)
- Amine plant feed gas purification

The GENERON® Advantage

- Skid mounted process units are easy to connect and commission
- Built to your specifications and convenience
- Remote control operation
- Operation flexibility with automated part-load
- Engineering support from concept to completion

CO₂ is found in natural gas from many sources. In order to meet pipeline or application specifications the CO₂ and other contaminants, e.g. H₂O and H₂S, must be removed before the methane gas can be used. The GENERON Membrane System is of simple process technology and utilizes patented GENERON® Membrane Technology.

Membrane Technology is competing against Amine systems which are used frequently but are complex and have high capital, operating, and installation costs, a relatively high fuel cost and potential environmental issues.



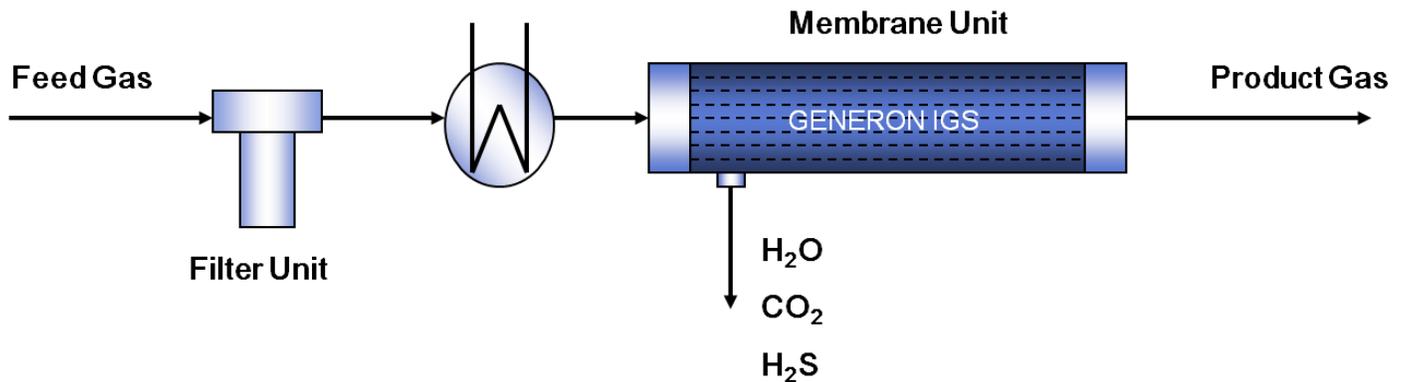
CO₂ Removal GENERON® Membrane Technology

In a typical GENERON® membrane system for CO₂ removal the feed gas is filtered to remove particles and liquid condensate. The feed gas is then heated to an optimum operation temperature and ready to enter the GENERON® membrane modules. CO₂ gas permeates preferred through the membrane walls. The non-permeated gas remains at pressure and is the high heating value product. The “faster” permeating gases, e.g. CO₂, H₂O, H₂S, are collected in the permeate.



Advantages of MEMBRANE Systems:

- no moving parts, and designed for remote unmanned operation
- Efficient packaging minimizes space and weight — ideal for offshore applications
- Optimized process design to maximize total hydrocarbon recovery
- CO₂ content can be adjusted to desired specifications
- Easy installation: skidded system can be installed in hours



The System Performance:

- Feed gas pressures up to 2,000 psi (138 bar)
- > 60 vol% CO₂ in feed
- < 2% CO₂ content in product
- > 95% recovery of hydro carbon gas
- > 90% removal of CO₂
- Flow rates of 10 to 350,000 SCFM

GENERON

16250 Tomball Parkway
Houston, Texas 77086

713-937-5200

Sales@Generon.com

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