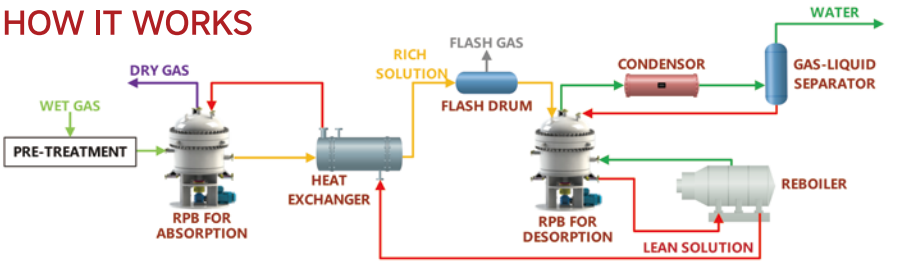
NATURAL GAS DEHYDRATION

TRIETHYLENE GLYCOL (TEG) ABSORPTION WITH RPB

SUMMARY

Moisture in natural gas causes corrosion and operational risks. Conventional towers are bulky, heavy and unsuitable for offshore use. By combining Triethylene Glycol (TEG) absorption with Rotaing Packed Bed (RPB) technology, dehydration becomes more efficient and compact, making it especially suitable for offshore platforms.

HOW IT WORKS



TRACK RECORD

Implemented on offshore platforms, with clients including CNOOC.

TECHNICAL ADVANTAGES

- Wide inlet flowrate range: 10,000-250,000 Nm³/h
- Water content in dry gas: <5 lb/MMSCF
- 90% smaller and 50% lighter than conventional towers
- Fits between decks, easy retrofitting, minimal site work
- Motion-insensitive design, unaffected by offshore platform movement

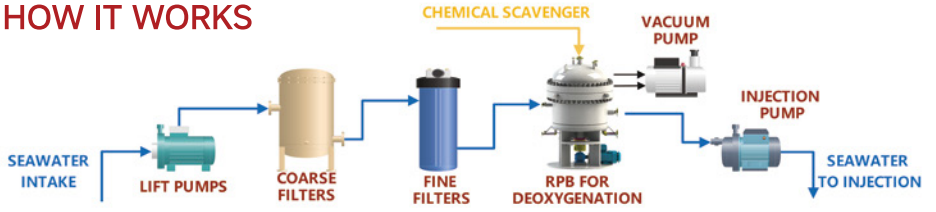
PORTABLE DEOXYGENATION SYSTEM

VACUUM DEOXYGENATION WITH RPB

SUMMARY

For seawater injection in offshore oil recovery, oxygen must be removed to prevent corrosion. Most offshore operators rely on large vacuum deaeration towers on FPSOs or fixed platfoms. Our RPB Deoxygenation System combines vacuum operation with a small dose of chemical scavenger to efficienty strip dissolved oxygen from seawater. With a compact skid-mounted, portable design, it is especially suited for offshore applications.

HOW IT WORKS



TRACK RECORD

Implemented on offshore platforms, with clients including CNOOC, SBM Offshore.

TECHNICAL ADVANTAGES

- Wide flowrate range: 30-500 t/h
- Dissolved oxygen in treated water: ≤10 ppb
- O_2 removal efficiency: 99.5%
- 90% smaller and 50% lighter than conventional towers
- Fits between decks, easy retrofitting, minimal site work
- RPB Motion-insensitive design, unaffected by offshore platfom movement