Product Definition

Getting the right processing power when and where you need it will drive the financial performance of your oil or gas find.

Designed and delivered as a fully functioning unit, Frames Modules offer a complete solution that gets your field into production.

Product Description

At Frames, we focus on designing and supplying our clients with highly-productive units that seamlessly fit their operations.

With Frames Modules, our clients benefit from a complete system ready to undertake all key upstream processes in the oil and gas industry. Custom built for actual operating conditions, these large multi-level assemblies contain all the necessary equipment, piping, valves and instrumentation to instantly fit the production system.

Fabricated and assembled offsite within a structural steel framework, Frames Modules come ready to be shipped to the offshore or port facility and installed in a single, trouble-free operation.

Process Description

Frames Modules are built to accommodate the full range of oil and gas treatment technologies, including the following:

Gas Sweetening
- Including amines (formulated or generic), solid bed scavengers and membrane technologies

Gas/Liquid/Liquid Separation
- Including scrubbers, knock-out drums, filter separators and slug catchers

Produced Water Treatment
- Including hydro cyclone units, compact/induced gas flotation and media filter separators

Gas Dehydration and HC Dew Point Control
- Including molsieve technology, TEG or MEG (including regeneration), Joules-Thompson Valves and chiller packages

Chemical Injection
- Including corrosion inhibitor, antifoam, pH controlling, scale inhibitor and demulsifier injections

As a flexible solution, these upstream techniques can be efficiently combined to deliver our clients a complete processing solution while optimizing the footprint of their Frames Processing Module.
Project Management

We understand that effective project management requires the precise coordination of a wide range of tasks, and by working together as a family of professionals we are committed to delivering the best outcomes for our clients.

At Frames, we work as a coordinated team that focuses on integrated solutions such as total plant solutions, modules and EPF Projects. We strongly believe that our product know-how translates into added value for the management of these complex projects. Our multi-disciplinary engineering teams are managed by a project manager who is the single point of contact for our clients.

With decades of experience in working on projects of all sizes, Frames has learned to execute its projects according to the highest safety standards. Having overall process knowledge, project execution and interface management experience, Frames offers complete package deals.

Thanks to a network of international partners and a worldwide supply chain, our clients benefit from smart services provided by a strong, global project management company.

Technical Details

- All offshore inspection approvals and classifications can be fully arranged
- Easy integration with all cabling pre-installed and terminated at single point
- Safe units, including options for active and/or passive fire protection
- Inclusion of PA/GA system as required
- Insulation and tracing come pre-installed
- Robust units, including allowance for wave motion in the process design

Added Value Frames

- Our experienced multi-disciplinary engineering teams work in close collaboration to optimize your production process
- Combine multiple gas treatment techniques on a single module for an optimized footprint
- Worldwide fabrication and installation service with full, expert support
- Benefit from Frames quality control, with representatives onsite at all times during construction
- Full design and supply service with in-house manufacturing of all critical equipment, including internals, heat exchangers and separators

Glycol Dehydration Module Under Construction
Modules

References

- Crude Oil Separation Module - Enquest Britain Ltd., located in the North Sea
- Gas Sweetening Module - Dragados Offshore, located in the Gulf of Mexico

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Frames Family Tree

Onshore

Oil & Water
- Multiphase Separation
  - Production Separators (High & Low Pressure)
  - Test Separator
  - Degasser & Knock-Out Drum
  - Water Oil Separator (WOSEP)
- Compact Inline Separation
  - SwirlSep
- Electrostatic Coalescers
  - Dehydrator
  - Desalter
- Produced Water Treatment
  - Deoiling & Desanding
  - Hydrotreaters
  - Gas Floatation
  - Media Filtration
  - Solids Removal & Cleaning
  - Stripping
- Separation Internals
- Heat Exchangers

Gas
- Gas Separation
  - Demisting
  - Scrubbers
  - Filters
  - SwirlSep
- Heat Exchangers
  - Shell & Tube Heat Exchangers
- Air-Cooled Coolers
- Gas Sweetening (H₂S & CO₂)
  - Amines
  - Thiopaq O&G
  - Solid Bed Scavenger
  - Membrane
  - Molecular Sieve
- Gas Dehydration
  - Glycol (TEG)
  - Molecular Sieve
- Dew Point Control
  - Low Temperature Separation (LTS)
  - Solid Desiccant
- Hydrate Inhibition
  - MEG/DEG Recovery
  - Methanol Recovery
  - MEG/DEG Desalination
- Light Hydrocarbon Recovery
  - Condensate Stabilization
  - Fractionation

Flow Control & Safeguarding
- Hydraulic Systems
  - Wellhead Control
  - Subsea Hydraulic Power Units
  - Hydraulic Power Units
  - IWOCs (Intervention Workover Control Systems)
  - TUTU (Topside Umbilical Termination Unit)
  - Cargo Ballasting Systems
- Safety Instrumented Systems
  - High Integrity Protection Systems (HIPS)
- Chemical Injection Systems
  - Chemical Injection Systems
- Chemical Distribution Systems
- Seawater Electrochlorination Systems
- Valve Automation Center
  - Actuators and Actuated Valve Packages
  - Control Systems
- Automation
  - Buoy Control
  - Tank Farm Control & Safeguarding

Offshore

Total Plant Solutions
- Industrial CO₂ Modules
- Early Production Facilities
- Wellsite Packages
- Biogas

Floaters

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Frames a family of oil & gas solutions