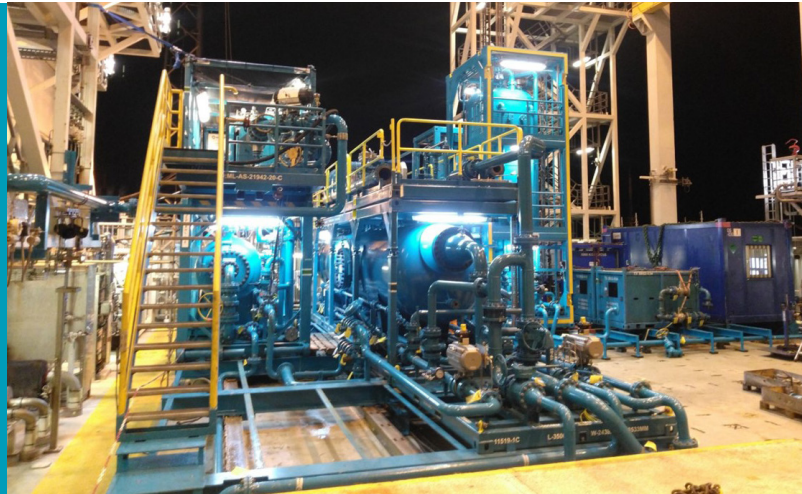


## Expro Excellence

# Expro modular package reduces installation time by 75%, gaining 68 man days

## Well Flow Management | Well Testing



### Objectives and background

- Expro has been on board the Transocean Searcher with a traditional temporary well test package since starting in the late 1990s
- Norwegian regulations require all equipment to be permanently fixed to the deck
- Expro invented a fastening system, avoiding the need for permanently welded equipment to the deck; this allowed equipment to be removed between campaigns when transitioning between summer and winter seasons

### Expro Excellence

- Expro designed an industry-leading, world-first, modular package introducing the following key features:
  - A repackaged, compact heat exchanger that is smaller but with the same efficiency, stacked to reduce the overall footprint
  - Sea fastening achieved by ISO twist locks to enable rapid securing of stacked equipment
  - A false deck housing all the piping to mitigate trip hazards
  - Retractable gangways and escape routes for increased ease of installation as well as provide additional flexibility to cater for any rig layout
  - Pre-fabricated and fire-resistant composite grating
  - Use of self-supporting base frames to spread deck loads
- Instrumentation permanently installed into modules/skids (e.g lighting, services and utilities)
- Reduced exposure to hydrocarbons using sampling cabinets
- Further enhancements were introduced integrating ancillary equipment into the package translating into fewer lifts and quicker installation; this was demonstrated by performing an onshore SIT which was completed in one day
- Rig-up time was reduced from 85 man-days for a standard package to approximately 17 man-days due to the implementation of the modular package (75% reduction)

### Value to the client

- A more efficient modular package with a smaller footprint
- Cost savings due to quicker installation
- Improved flexibility in package shipments
- Equipment could be left on the rig as sea fastening with ISO twist locks allowed other equipment to be secured
- Improved equipment access due to skid and walkway layout
- Reduction in crane operations
- Man-hour reduction during installation
- Lighter equipment and less manual handling
- Less exposure to hydrocarbons
- Less interference with drilling activities
- Reduced personnel on board due to a smaller crew required

#### Reduction of rig time



#### Cost saving

