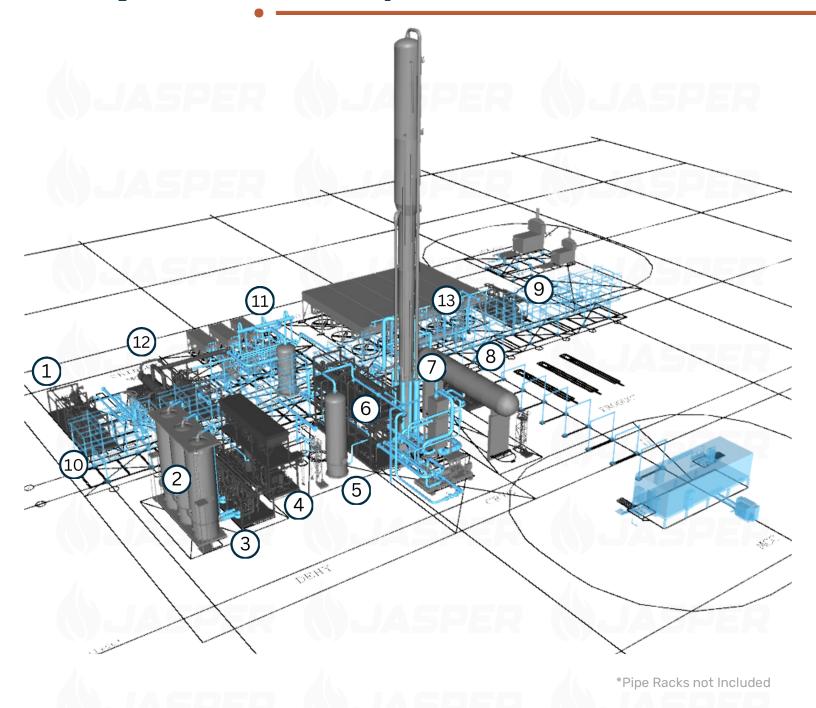


Jasper Flex™ Cryo Booklet



Jasper Flex™Cryo



Dehydration and Cryogenic Plant w/ Refrigeration in a Module Design 8 Skids + Off-Module Equipment Vessels built to ASME Section VIII Div 1 Piping Design to ANSI B31.3



Jasper Flex™Cryo

Dehydration system has an 1100 psig design pressure and achieves required dew points for the Cryogenic Process

- 1) Feed gas conditioning with vertical inlet coalescer and gas superheater
- 2) Three (3) 3A molecular sieve beds
- **3)** Dehy switching valves accessible for easy maintenance access and dust filters
- **4)** Stacked skid with regeneration compressor, scrubber, and air-cooled condenser. Regeneration gas heater supplied off-module

Cryogenic Recovery Process has an 1100 psig / 450 psig design pressure.
The Jasper Flex Cryo Unit is designed from the ground up to operate in either Recycle Split Vapor (RSV) or Gas Subcooled Process (GSP) configurations.

- 5) Single cold separator with demister pad
- **6)** Shell and tube trim reboiler, NGL exchanger, seal gas heater, and fuel gas scrubber
- 7) Demethanizer tower, all internals, BAHX gas gas / subcooler, dedicated bottom and side reboiler cores, LA Turbine expander / compressor with associated lube oil and seal gas equipment, and NGL product surge vessel
- 8) Skid mounted product booster pumps
- 9) Heat medium expansion vessel and circulation pumps Heat medium heater provided off-skid
- 10) Top-of-the-line vertical residue gas recycle coalescer



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Refrigeration Package is a 300 psig / 250 psig system designed for R-290 refrigerant

- 11) Screw compressors with integral lube oil coalescer
- **12)** Two (2) Refrigeration skids include gas chiller, economizer, and associated controls
- **13)** Off-module equipment includes air cooled lube oil coolers, air cooled refrigerant condensers, suction scrubber, and refrigerant receiver

Auxiliary

- On-module junction boxes
- All process instrumentation, manual and actuated valves, controls, etc.
- · Off skid equipment level bridle design, procurement, and fabrication
- · All specialty items
- Off-module platforms for the cold separator, product surge tank, dehydrators and residue recycle coalescer

Documentation & Deliverables

- P&IDs indicating module breaks, H&MB using client feed gas
- Equipment files Design specifications, vessel U1A, final GA drawings,
 ASME code calculations, manufacturer data report, nameplate rub, MTRs,
 hydro graphs, NDE reports, weld maps, pump curves, and supplier IOM
- Supervisory operations manual
- Instrumentation datasheets and index
- Navisworks 3D of the modules, plot plan, plans and sections, isometrics
- Control narrative, C&E diagrams, and alarm and trip list

Other Services Available

- Balance of plant engineering and design
- Field installation
- Start-up support for all US locations

