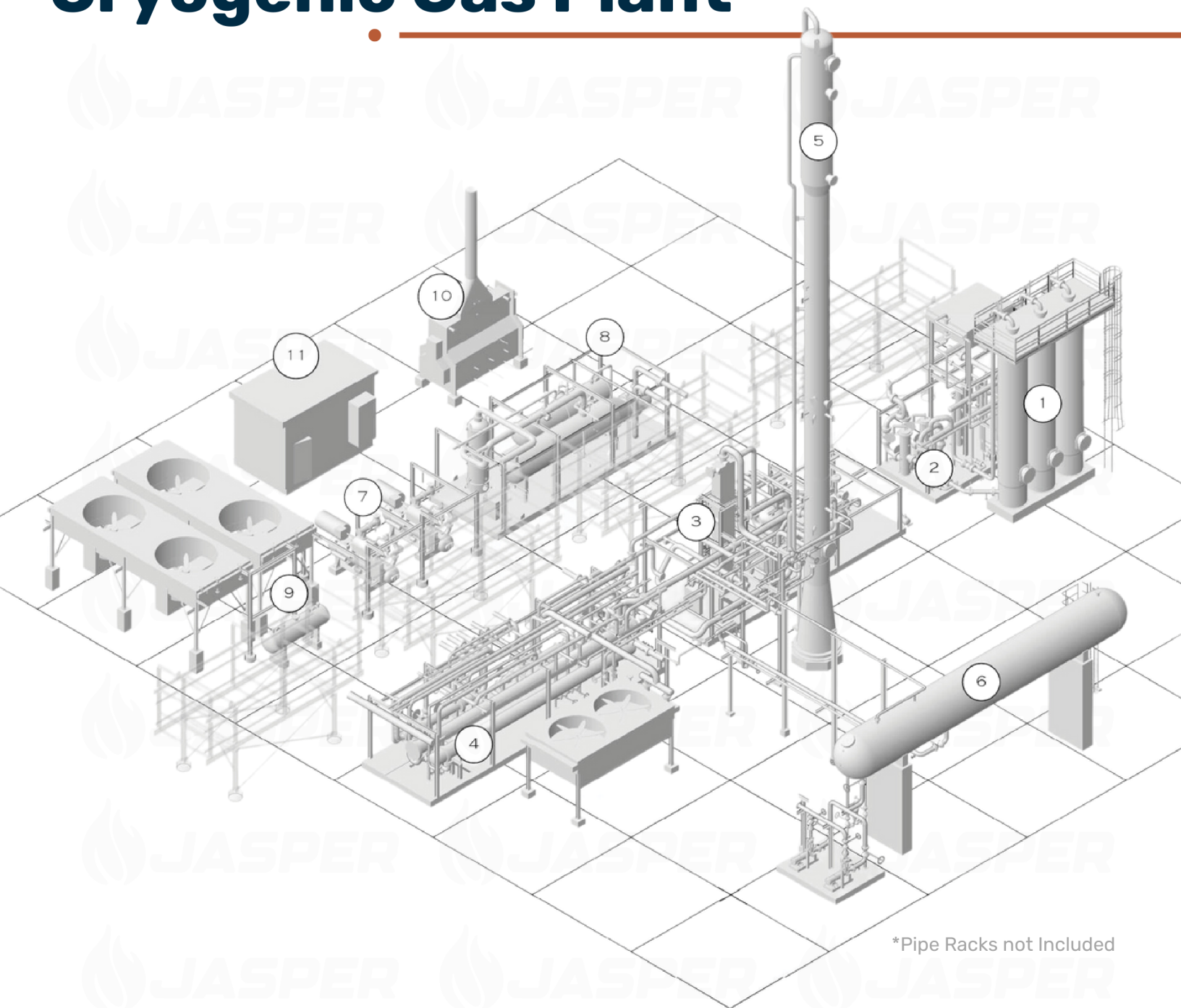




# **60MMSCFD Cryogenic Gas Plant Booklet**

# 60MMSCFD Cryogenic Gas Plant



\*Pipe Racks not Included

Dehydration and Cryogenic Plant with Refrigeration in a Modular Design

5 Skids + Off-Module Equipment

Vessels built to ASME Section VIII Div 1

Piping Design to ANSI B31.3

Plant Model available for viewing



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**Dehydration system has an 1100 psig design and achieves required dew points for processing gas in the Cryogenic Process.**

- 1) Three (3) 3A mol sieve beds, Sundyne Regeneration Compressor.
- 2) Vertical Inlet Filter Coalescer, Orbit switching valves accessible for easy maintenance access. Regeneration system includes air-cooled condenser, scrubber, and dust filters.

**Proven Reliable Gas Subcooled Process (GSP) Cryogenic Process operates in ethane recovery or rejection.**

- 3) Chart BAHX gas/gas-subcooler with methanol injection pump, LA Turbine expander/compressor with associated lube oil and seal gas equipment, cold separator, and fuel gas scrubber.
- 4) Feed gas conditioning with superheater, Shell and Tube Reboilers, and trim heater.
- 5) Demethanizer tower including internals.
- 6) 15,000 gallon NGL Product Surge Vessel with skid mounted Product Booster Pumps.

**Refrigeration Package designed for R-290 refrigerant.**

- 7) Two (2) 700 HP GEA 400GL propane screw compressors with integral lube oil coalescer.
- 8) Refrigeration skid with gas chiller, suction scrubber, economizer, and associated controls.
- 9) Off-Module equipment includes Air Cooled Refrigerant Condensers, Refrigerant Receiver, and Air Cooled Lube Oil Coolers.
- 10) Regeneration Gas Heater.
- 11) 480V Rockwell MCC with refrigeration soft started pre-wired in a modular power distribution control (PDC) building.

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## Auxiliary (Not shown)

- Allen Bradley CompactLogix PLC with Wonderware work stations.
- On-skid junction boxes are included with FlexLogix remote I/O units.
- Main process area is class 1, division 2.

## Documentation

- 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, MTR, Hydro Graph, NDE Report, Weld Maps, Pump Curves, and Supplier IOM.
- Rockwell Automation Operation and Maintenance Manual.
- Full Process Guarantee.

## Other Services Available

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