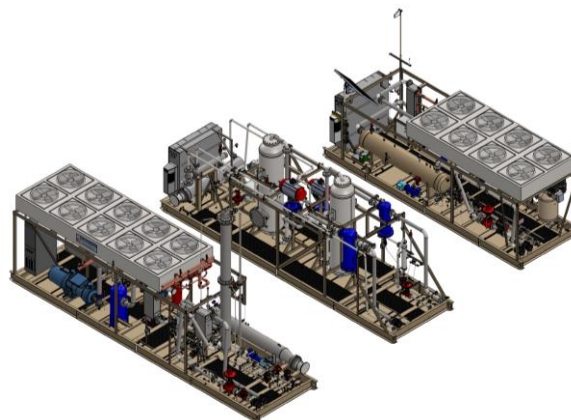


- 6,000 MCF / day processing capacity
- Proprietary refrigeration system cools gas to -35°C
- Rapidly deployed & redeployed
- Scalable via paralleled units
- Ethane is removed (tunable down to as low as 2%)
- Extreme turndown – no minimum flow rate requirement
- Fully autonomous with 24/7/365 remote monitoring



### Description

The Flarecatcher 6000-35 is a modular gas processing plant that processes liquid-rich associated gas at the wellsite, producing Y-Grade Natural Gas Liquids (NGLs) and a conditioned gas stream. The Flarecatcher reduces or eliminates flaring, enabling monetization of associated gas & reducing environmental footprint.

The Flarecatcher operates at a modest process pressure of 150 to 200 PSIG. This means that if a producer can provide associated gas at this pressure, no front-end compression is required. Lower pressure gas streams can be accommodated by adding separate compression equipment. Raw associated gas is first dehydrated through use of precooling and a three-phase separator. Any remaining water is then removed through use of a molecular sieve. A two-stage economized mechanical refrigerator cools the gas to -35°C, liquefying C3+ components. A sophisticated separation system then dissociates the gas into three streams: **Y-Grade NGLs** (to be transported to market), **conditioned gas**, and low-value **rejected ethane** (consumed onboard or flared).

### Flarecatcher 6000-35 Characteristics

<b>GAS PROCESSING CAPACITY</b>	Up to 6,000 MSCFD of capacity
<b>PRESSURE RATINGS</b>	220 PSI MAWP 150 – 200 PSI typical inlet operating pressure
<b>DEHYDRATION</b>	304SS vessels Molecular Sieve 4A (dries gas to -100°C dewpoint) 304SS gas-to-gas heat-exchanger Metal-seated control valves
<b>REFRIGERATION</b>	Semi-hermetic screw compressors cooling in two steps (5°C, -35°C) Oil-separators, filter-driers, suction-accumulators used to improve reliability and performance Plate-heat-exchangers 304SS Air-cooled condensing units with floating-coils
<b>SEPARATION</b>	Stainless steel construction Three-Phase Separator: Used for initial removal of water and heavy hydrocarbons Cyclonic-separator: Outputs conditioned gas and feeds condensed liquid to stripping column Stripping column: Random-fill design to maximize C3+ capture in NGL Reboiler: Electric immersion heaters 150 kW to control ethane content in NGL Transfer Pump: Mag-coupled regenerative turbine pump
<b>FILTRATION</b>	Inlet gas strainers to remove particulate contamination Coalescing gas filters pre-and-post dehydration vessels
<b>CONTROLS</b>	Wireless cellular communications protocol used with satellite back-up Opto22 controllers, mGuard security firewall All control valves pneumatically actuated (via onboard instrument air) Control valves equipped with limit-switches to report valve position Instrumented to measure temperatures, pressures, and flow in all critical areas
<b>SKID DIMENSIONS</b>	3 separate skids: 1 x 28-ft long x 8.5-ft wide x 10-ft tall, 1 x 40-ft long x 8.5-ft wide x 10-ft tall, 1 x 40-ft long x 10-ft wide x 20-ft tall Est. Weight: 105,000 lbs.
<b>POWER REQUIREMENTS</b>	~650 kW, 480V 3phase 60Hz. Optionally available in 415V 3phase 50Hz configuration. Power can be provided via grid power or by use of a natural gas genset which can be fueled by the conditioned gas
<b>SAFETY &amp; COMPLIANCE</b>	UL 508 Electrical; Class-1 Division-2 Group-D / ATEX Zone 2 ASME Stamped Pressure Vessels Pressure relief valves and rupture-disks used Automatic blow-down system to quickly and safely empty system of all liquid hydrocarbons Redundant instrumentation used in critical areas Compliant with EPA OOOO/VVa



**Gas Preparation / Water Management**



**Molecular Sieve Dehydration**



**Refrigeration, Separation & NGL Stabilization**