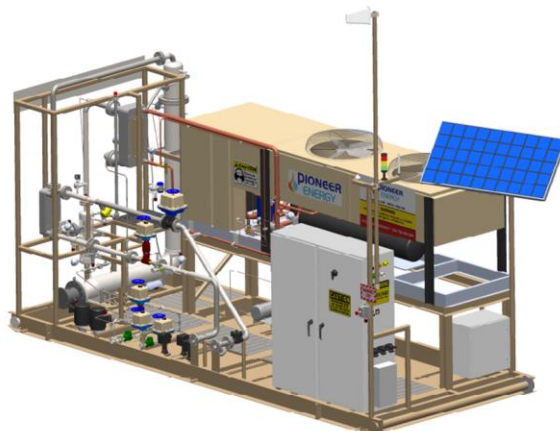


- 1,000 MCF / day processing capacity
- Rapidly deployed & redeployed
- Scalable via paralleled units
- Extreme turndown – no minimum flowrate requirement
- Ethane is removed (tunable down to < 2%)
- Fully autonomous with 24/7/365 remote monitoring

Description

The **Flarecatcher 1000-5** is a modular gas processing plant that processes liquid-rich associated gas and tank vapors at the wellsite or central processing facility. It produces Y-Grade Natural Gas Liquids (NGLs) and a conditioned gas stream. The Flarecatcher conditions gas streams for on-site use, reduces emissions, and enables oil production by satisfying gas capture requirements.

The Flarecatcher operates at a modest process pressure of 150 to 225 PSIG. This means that if the producer can provide HP associated gas at this pressure, no front-end compression is required. Lower pressure gas streams can be accommodated by adding separate compression equipment. Methanol injection is used to prevent internal freeze-ups. A mechanical refrigerator cools the gas to -5°C, liquefying C3+ components. A sophisticated separation system then dissociates the gas into two streams: **Y-Grade NGLs** (to be transported to market) and **conditioned gas**.



Flarecatcher 1000-5 Characteristics

GAS PROCESSING CAPACITY	1,000 MSCFD of gas processing capacity
PRESSURE RATINGS	250 PSI MAWP 150 – 225 PSI typical inlet operating pressure
FREEZE PREVENTION	Methanol injection prevents internal freeze-ups
REFRIGERATION	Semi-hermetic reciprocating compressor Oil-separators, filter-driers, suction-accumulators used to improve reliability and performance Plate-heat-exchangers 304SS (copper-brazed in refrigeration, nickel-brazed where associated gas contacts) Air-cooled condensing units with floating-coils
SEPARATION	Carbon steel construction 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 30-kWe to control ethane content in NGL Transfer Pump: Mag-coupled rotary-vane
FILTRATION	Inlet gas strainers to remove particulate contamination
CONTROLS	Wireless cellular communications protocol used with satellite back-up Opto22 controllers, mGuard security firewall All control valves pneumatically actuated (via onboard instrument air) or electrically actuated Control valves equipped with limit-switches to report valve position
SKID DIMENSIONS	21-ft long x 8.5-ft wide x 10-ft tall Est. Weight: 15,000 lbs.
POWER REQUIREMENTS	~100 kWe, 480V 3phase 60Hz Power can be provided via grid power or by use of a natural gas genset which can be fueled by the conditioned gas
SAFETY & COMPLIANCE	Air positive pressure electrical enclosure Pressure relief valves and rupture-disks Onboard LEL Detector 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

Equipment Pictures



Typical Site Configuration

