FUEL GAS CONDITIONING

Bulletin GFC00-2017.02

DESCRIPTION

GFC Fuel Gas Conditioning Systems combine pressure regulation, gas/liquid separation, filtering and heating of a gas stream to remove liquid slugs, water, condensed gas, heavy hydrocarbons, lube oil and solid particles such as rust & sand so it can be used as fuel for gas turbines.

Fuel gas skids are crucial to extend the life o gas turbines and engines as well as reducing down time due to maintenance/cleaning, and to comply with turbine manufacturer's fuel gas specifications.

BENEFITS:

- Meet warranty requirements
- Reduce downtimes due to maintenance
- Increased reliability of engines & turbines
- Fully assembled and skid mounted
- Increased operating life of rotating equipment
- Increase efficiency of gas combustion

FEATURES:

- Dual pressure regulation assembly
- High efficiency vane type scrubber/separator
- Dual chamber filters/coalescers
- PLC Based control panel
- Suitable for Class 1 Div 2 Areas
- Set of access platforms and ladders
- Automatic, unattended operation
- Water/condensates outlet connection

INDUSTRY STANDARDS COMPLIANCE:

- Piping Design per ANSI B31.1, 31.3
- Fabrication per ASME Sect IX
- TEMA Shell & Tube Heat Exchangers
- Pressure Vessels per ASME Sect VIII, Div 1
- Structural work per AWS D1.1
- Control panel & electrical work IEC/CENELEC/CSA Compliant

APPLICATIONS:

- Oil & Gas
- Power Plants
- General Industrial (Gas Turbines & Engines)
- Steam Generators & Gas Heaters

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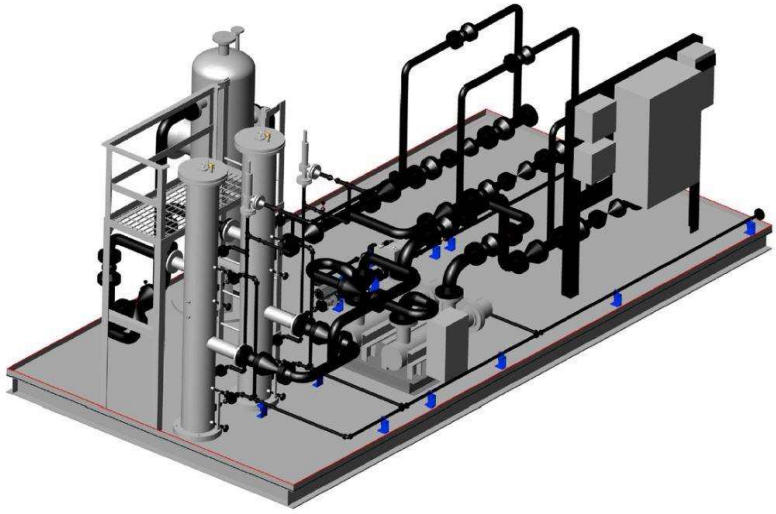
SPECIFICATIONS:

- Operating pressures: 20 – 1200 psig
- Capacities: 0,1 – 20 MMSCFD
- Solids removal: up to 98% > 0,1 microns
- Standard Carbon Steel, optional Stainless Steel construction.



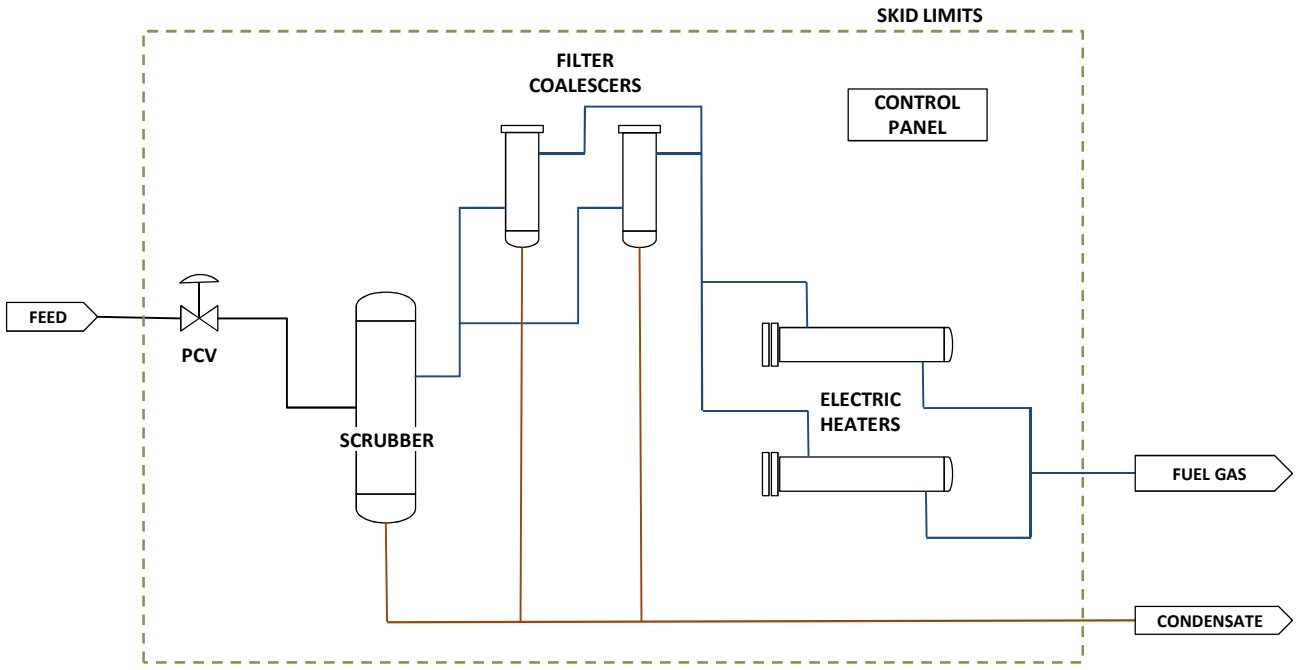
BASIC COMPONENTS:

- Pressure Reducing Assembly
- Knock Oud Drum / Gas Scrubber
- Filter Coalescers
- Process Heaters (as applicable)
- Suitable for Class 1 Div 2 Areas
- Set of access platforms and ladders
- Metalic skid

OPTIONALS:

- Shell & Tube Heat Exchanger
- ESD System
- SCADA / Remote operation mode
- Catalytic heaters at pressure reducing station
- Gas metering runs
- Piping insulation for energy conservation

TYPICAL SKETCH:



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