INTEGRATED FLOW SOLUTIONS www.IFSolutions.com

Fuel Gas Conditioning Systems

Integrated Flow Solutions Fuel Gas Conditioning Systems are designed to protect natural gas fueled engines and turbines from liquid slugs, solids (<0.1 microns) and liquid aerosols. Additionally, the fuel gas is superheated above the hydrocarbon and water dew points to prevent liquid condensation in the turbine's combustion chambers. These systems meet or exceed reciprocating engine and turbine manufacturers' fuel gas quality specifications providing dry, clean fuel to increase the life of the equipment.

Industries

POWER

OIL & GAS

GENERAL

Benefits

- *Single Source Accountability*
- *Pre-Packaged Modular Design Costs Less Than Component Based Site-Built Systems Reducing Overall Project Cost*
- *Minimizes Field Erection Time - Shorter Overall Project Delivery Schedule*
- *Complete System Function Testing Prior To Shipment*
- *24/7 Customer Service*

Industry Standards

- *Vessels Code Stamped ASME Section VIII & National Board Registered*
- *Piping Designed to ANSI B31.1/ANSI B31.3*
- *Pipe Fabrication to ASME Section IX*
- *Structural Steel Assembly Designed to AWS D1.1*
- *API 14C for Offshore Applications*

Standard Features

- *Process Validation/Guarantee Using "Aspen Plus" Simulation Software*
- *ASME Scrubbers/Separators/Coalescers/Filters*
- *INTEGRAHEAT™ Electric Process Heaters*

Standard Features (Continued)

- *TEMA Shell & Tube Exchangers*
- *Class 1, Div. 2 Hazardous Locations*
- *Local Control Panel*

Optional Features

- *Ladder and Platfrom for Vertical Filter Access*
- *Michell™ Instruments Hydrocarbon and Water Dewpoint Measurement and Control*
- *IEC/CENELEC/CSA Compliant Control Panel, Conduit and Wiring*
- *PLC Control System with Data Highway*
- *NACE MR-01-75 Latest Edition for Sour Service*
- *Pneumatic Pressure Test After Re-Assembly*
- *Third Party Inspection by ABS, Lloyd's and DNV*
- *Compliance with Plant/Engineering Specifications*

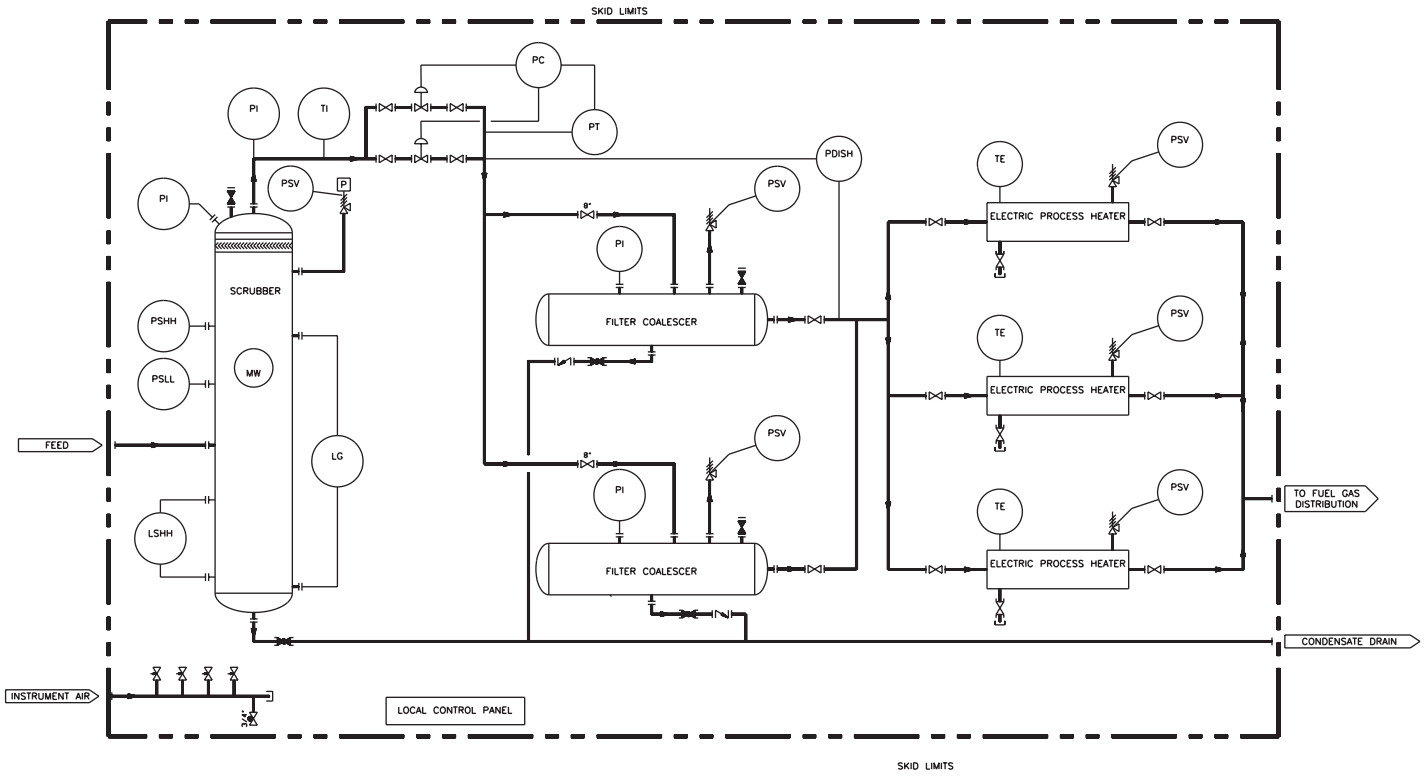
Standard Designs

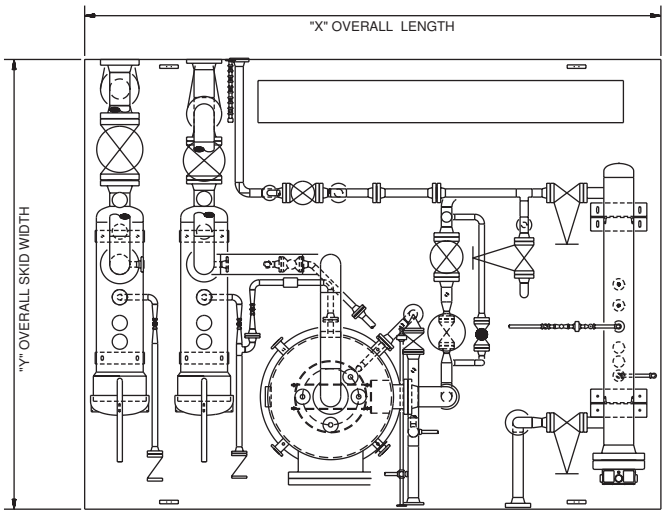
- ***Power***
  - *Frame Size Gas Turbines*
  - *Aero-Derivative Size Gas Turbines*
- ***Oil & Gas***
  - *Cross Exchanger Design That Recovers Heat Loss From Pressure Drops*

Additional Services

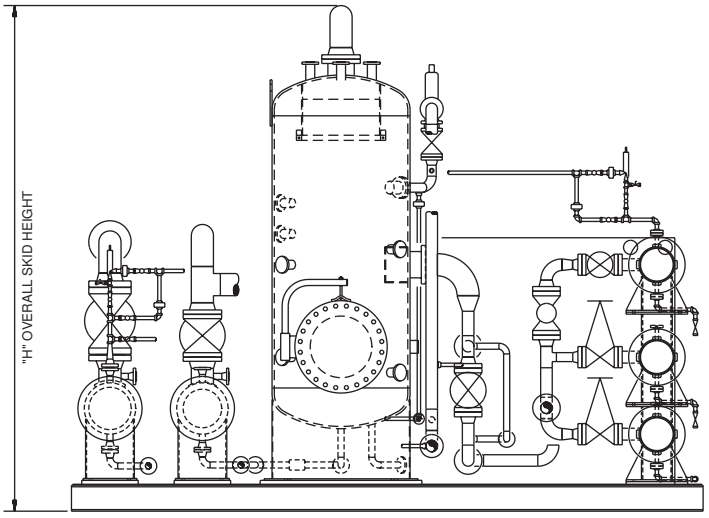
- *Installation/Training/Start-Up Supervision*
- *Extended Equipment Warranties*
- *Nationwide Service Network*

Fuel Gas Conditioning Systems





PLAN VIEW



ELEVATION VIEW

Power

FLOWRATE MMSCFD	LENGTH - X	WIDTH - Y	HEIGHT - Z	WEIGHT - LBS.
60	40’	12’	12’	50,000
30	35’	12’	12’	40,000
20	25’	12’	12’	30,000
10	15’	8’	12’	15,000

Oil & Gas

FLOWRATE MMSCFD	LENGTH - X	WIDTH - Y	HEIGHT - Z	WEIGHT - LBS.
35	20’	15’	16’	60,000
25	18’	12’	16’	57,500
15	17’	12’	14’	55,000
10	16’	12’	14’	52,500
5	15’	10’	14’	50,000

INTEGRATED FLOW SOLUTIONS 9807 Whithorn Drive Houston, TX 77095 281-855-8125 / Toll-Free USA 800-795-4068

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