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TRAILER FLARE SYSTEM

- Schedule 10 stainless steel upper mast assembly.
- Recirculation line from blower exhaust flange to demister/knock-out inlet for low turndown.
- Flame arrester with Dwyer differential pressure gauge across element.
- Butterfly valve w/ SS disc & stem and Viton seat w/ pneumatically controlled safety shutoff actuator w/ spring assisted shutoff.
- Stainless steel, flare shroud assembly w/ operator adjustable air inlet louvers.
- Stainless steel, burner nozzle assembly w/ operator adjustable turbulator vanes.
- Propane pilot assembly, including solenoid, regulator & manometer port.
- Type "K" flame monitoring thermocouple assembly for pilot recognition.
- Type "K" flame monitoring thermocouple assembly for flame recognition and temperature indication and recording.
- PEI Tru-tube delivery flow meter. Veris Verabar type differential pressure, velocity averaging annubar primary flow element with differential pressure transmitter, pressure and temperature compensated. The result is SCFM flowrate and totalized flow.

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- System inlet isolation valve. Cast iron body, stainless steel disc and stem, with Viton resilient seat/liner, with lever operator which isolates body from process.
- Inlet Pressure Transducer.
- Inlet demister/knockout to removes free moisture from the incoming biogas. Equipped with flanged cleanout; differential pressure gauge; removable lid for element inspection and removal. 5 psig vacuum/pressure rating.
- Pressure & Temperature gauges at inlet of system.
- Multi-stage blower with cast iron housing, cast aluminum impellors, gas seals, and direct drive 15 HP TEFC inverter duty motor, 240/480 volt/60hz/3ph. The internal cast iron parts are phenolic coated for corrosion protection.
- All carbon steel surfaces sand blasted to SSPC SP-6 standards, primed and painted to PEI standard paint specs.
- All devices fully piped, installed, wired, calibrated, and tested to the extent possible at the factory.
- Variable Frequency Drive for the blower. The drive speed will be modulated to maintain inlet vacuum or flow by user changeable setpoints.
- Supporting out-riggers for stability on uneven sites.
- Goose neck hitch assembly or skid mounted.
- Electric Winch system for raising and lowering the mast at the site.

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