



# **Fliteway Technologies, Inc.**

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**Q14466 Rev 2**

**Terracon**

**Pappy's Place, Fullerton, Nebraska**

- **SVE Unit (provided by Terracon) rated for 145 SCFM at 20" WC Vacuum Supplied with the following:**

- Remove supplied SVE equipment from steel base skid and install in trailer plumbed and wired per Class 1, Div 2, Hazardous Location
- Add 2" clear site tube to existing KO tank with three (3) Gems LS-750 weighted teathered float switches for HHL and transfer pump on, off
- Add Vacuum relief and Valve Vacuum Transmitter
- Add camlock connections with bypass valve on SVE transfer pump discharge
- Add 4" Inlet Manifold with Four (4) 2" Legs and One (1) 3" Leg
  - Four (4) 2-inch Diameter Legs
  - One (1) 3-inch Diameter Leg
  - Five (5) Flow Adjusting Valve
  - Five (5) Sample Ports w/ On/Off Valve
  - Five (5) Vacuum Level Ports w/ On/Off Valve

- **Air Sparging System Flite way Model FS7.5N3-DLR100 rated for 64 ACFM at 14 PSI at 1,650 Foot Elevation**

- Rietchle DLR-100 Oilless Rotary Claw Compressor
- 7 ½ HP 208- 230 VAC Three Phase TEFC Motor (rated for Class 1, Div 2)
- Vibration Isolators
- Built in Pressure Regulating Valve
- 2" 10 micron filter
- Mini Magnehelic to monitor differential pressure across filter element
- Discharge Silencer and temperature gauge
- Bleed Valve with Silencer

***Fliteway is the Rightway!***

- Pressure relief valve on discharge side of pump.
- Pressure gauges
- All iron pipe and fittings.
- Discharge Check Valve
- Discharge Low Pressure Switch
- American Industrial ACA 3242-3 Low Pressure Drop Heat Exchanger with 1/3 HP TEFC Motor with condensate trap discharged to SVE K.O. Tank
- Heat Exchanger Ducting to deflect partial exhaust air back into Trailer to assist in heating during winter months
- Exhaust Hood
- High Temperature Shutdown Alarm Switch / gauge and Pressure Gauge
- Discharge Pressure Transducer

- 1" Steel Discharge Manifold with Seven (7) 1" Legs
  - Seven (7) 1" Gate Valves
  - Seven (7) 1" Ball Valves
  - Seven (7) Pressure Gauges (0 to 30 PSI)
  - Seven (7) 1" Check Valves
  - Seven (7) 1" Dwyer RMC-121 (1 to 10 SCFM) Flow Meters with valves

- **NEMA 4 Control Panel (208 Three Phase)**

- 100 Amp NEMA 3R Disconnect
  - Circuit breakers for branch circuit protection
  - Trailer Heater
  - Trailer Vent Fan
  - Trailer Lights
- 36" by 36" NEMA 4 Enclosure with inner panel
- 3 KVA Power Transformer
- Starters and overload protection for:
  - 3 HP SVE
  - .5 HP SVE Transfer Pump
  - 7 1/2 HP Air Sparge Motor
  - .25 HP Air Sparge Heat Exchanger
- Illuminated HOA switches
  - SVE
  - SVE Transfer Pump
  - Air Sparge
- Three (3) Hour meters (also displayed on HMI)
- Power on light
- Alarm Lights displayed on HMI
  - SVE HHL
  - SVE Motor Fault
  - SVE Low Vacuum
  - SVE Low Flow
  - SVE Filter High Pressure
  - Air Sparge Motor Fault
  - Air Sparge High Discharge Temperature
  - Air Sparge High Discharge Pressure

- One (1) Intrinsically Safe Pump Controller
- Two (2) Dual Intrinsically Safe Switch Repeaters
  
- Fliteway "Flite-Link" Cellular Web Based Control and Communications
  - Allen Bradley MicroLogix 1400 PLC
  - One (1) Four channel Analog input card
  - 6" Grey scale LCD Touch Screen with Web Hosting
  - Verizon Cellular Modem
  - Cradlepoint router
  - Internet Remote Management and SADA System
- UPS Battery Backup
- Surge Protection
- Phase Monitor
- Lightning Protection
- UL Listed
  
- **Yearly cellular service cost**  
**(5 Gb Monthly Data Plan / Web Hosting/ Report Generation)**

- **Enclosed Trailer:**

**Interstate Model IT814TA2XLT Interior Dimensions 8'Wide by 6'5" Tall by 14'5" Long**

- All Wheel Electric Brakes with 12 VDC Breakaway switch
- Independent torsion suspension
- Double Swing Rear Doors with Semi-Style Camlocks
- 32" Side Door on Trailer
- Clearance Lights
- 3/4" Plywood Floor and sprayed with truck bed liner and up 1 1/2" on walls
- 1 1/2" Containment Lip
- Floor Sump with HHL
- 3/8" interior Plywood Walls
- Three (3) Year Trailer Warranty
- Two Floor Vents
- Front and Rear Stabilizer Jacks
- Spare Tire
- Remote E Stop
- A,B,C - 10 Lb Fire Extinguisher
- 1" Thermal Insulation inside interior walls and ceiling
- 3,600 Watt Explosion Proof Heater and Thermostat (Supplied by Terracon)
- Hazardous Location Vent fan (Supplied by Terracon)
- Two (2) Hazardous Location Light and Switch (Supplied by Terracon)
- Installation of all Equipment and manifolds per Class 1 Div 2 Hazardous Location

**One Year Flite way Warranty on New Equipment Parts and Labor (Included)**