



# Fliteway Technologies, Inc.

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OLSSON ASSOCIATES	

**Q14190**

**Olsson Associates**

**All Points Cooperative, Lexington NE**

- **SVE Unit rated for 1,000 ACFM at 40" WC Vacuum at 2,390 Foot Elevation  
Fliteway Model FV15117X3-NYB2608** foot elevation with the following:

- New York Blower Model 2608A Aluminum Wheel Pressure Blower with 15 HP 3500 RPM Exp Motor and housing drain and cleanout door.
- Fliteway "Cyclonic Action" 117 Gallon Vertical knockout/demister tank, carbon steel with 8" flanged inlet and discharge, internal demister, removable top cover, site gauge, 6" cleanout, and bottom drain.
- 8" inlet with sample port, and liquid filled vacuum gauge.
- One (1) 8" Inlet Averaging Pitot Tube Flow sensor with Magnehelic Gauge
- 8" 10 micron in-line filter between tank and vacuum pump.
- Mini Magnehelic to measure pressure drop across filter element
- Air Dilution Valve with filter/silencer
- Discharge Pressure, Temperature gauge, and Sample Port
- 8" Discharge Silencer
- 8" Removable Discharge Stack (15' above ground level)
- Vacuum relief valve on inlet side of pump, field adjustable from 0 - 15".
- One (1) 8" Discharge Averaging Pitot Tube Flow sensor with Magnehelic Gauge
- Explosion Proof Automatic Drain System
  - ¾ HP Explosion Proof Stainless Steel Centrifugal Pump
  - Two (2) Pump Control Switches
  - Discharge check valve, sample port, and pressure gauge
- Cartridge Filter
- Two (2) Tetrasolve HP-100 Liquid Phase Carbon Vessels plumbed in series
  
- 8" Inlet Manifold with Eleven (4) 4" Legs
  - Temperature Gauge
  - Eleven (11) 4" Gate Valves
  - Eleven (11) Vacuum Gauges
  - Eleven (11) 3/8" Threaded nipples with caps for insertion of Pitot Tube for flow measurements
- One (1) Dwyer 4" Averaging Pitot Tube Flow Sensor with Magnehelic Gauge (shipped loose)

*Fliteway is the Rightway!*

- **Air Sparging System rated for 500 ACFM at 8 PSIG  
Fliteway Model FS25X3-Dual R56 URAI-J Blowers plumbed in parallel (each rated for 250 ACFM at 8 PSIG at 2,390 foot elevation with the following:**

- Two (2) Roots 56 URAI-J positive displacement rotary lobe blowers
- Two (2) 20 HP Explosion Proof Three Phase 230/ 460 VAC 1750 RPM motor.
- Two (2) 4" External 10 Micron Filter
  - Mini Magnehelic to measure pressure drop across filter element
- Two (2) Inlet 4" Silencers installed on Trailer Exterior (removed for shipping)
- Two (2) Weighted Pressure relief valve on discharge side of pump.
- Two (2) Discharge Check Valves, Pressure Gauges, and Temperature Gauges
- Two (2) Bleed Valves with Silencers
- All iron pipe and fittings.
- One (1) High Discharge Pressure Switch
- One (1) High Discharge Temperature Switch
  
- 6" Steel Discharge Manifold with Seventeen (17) 2" Ports
  - Seventeen (17) 2" Gate Valves
  - Seventeen (17) Pressure Gauges
  - Seventeen (17) 3/8" Threaded nipples with caps for insertion of Pitot Tube for flow measurements
- One (1) Dwyer 2" Averaging Pitot Tube Flow Sensor with Magnehelic Gauge

- **NEMA 4 Control Panel (480 VAC Three Phase, 4 wire)**

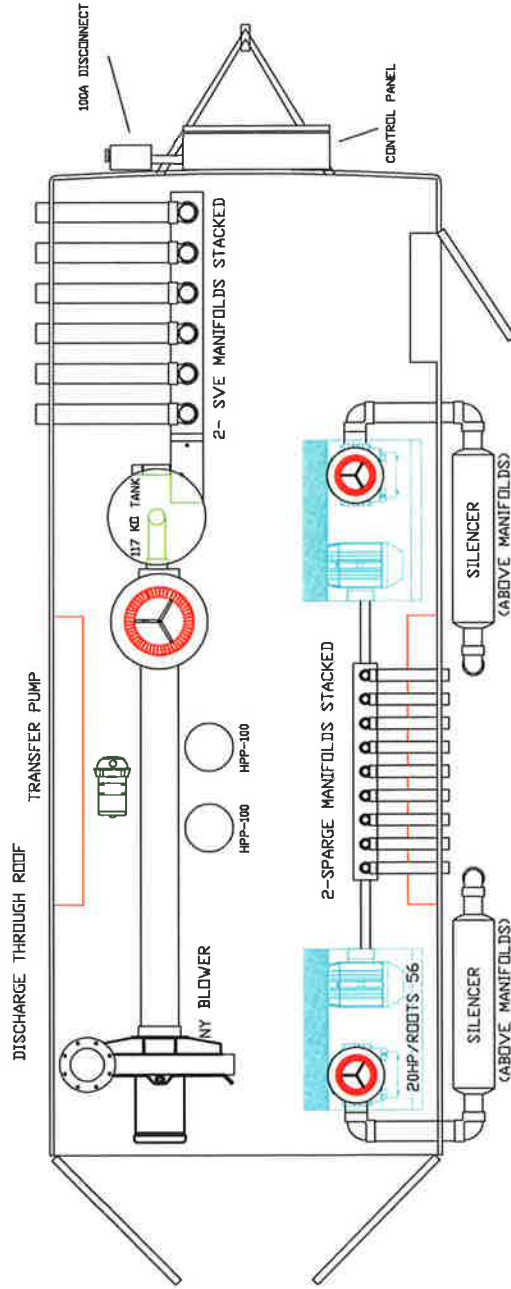
- Separate 100 Amp NEMA 4 Fused Disconnect
- Lockable NEMA 4 System Control Box with inner panel
- Power Distribution Panel
- Branch circuit Protection for
  - Trailer Vent Fan
  - Trailer Light
  - Trailer Heater
- 3 KVA Power Transformer
- Starters and overload protection for:
  - 15 HP SVE Motor
  - 3/4 HP HP SVE Transfer Pump
  - 1/4 Vent Fan
  - 20 HP Air Sparge Motor #1
  - 20 HP Air Sparge Motor #2
- Four (4) HOA switches
  - SVE
  - SVE Transfer Pump
  - Air Sparge #1
  - Air Sparge #2
- Alarm Lights
  - SVE Motor Fault
  - SVE HHL
  - Air Sparge #1 Motor Fault

- Air Sparge 21 Motor Fault
- Air Sparge Common Manifold High Discharge Temperature
- Air Sparge Common Manifold High Discharge Pressure
- Three (3) Hour Meters
- Two (2) Dual Intrinsically Safe Switch Repeater
- One (1) Intrinsically Safe Pump Controller
- Fliteway "Flite-Link" Cellular Web Based Control and Communications System
  - Allen Bradly MicroLogix 1400 PLC
  - 6" Color LCD Touch Screen with web Hosting
  - Analog Card for displaying Amps
  - Verizon Cellular Modem
  - Cradlepoint router
  - Internet Remote Management and SADA System
- UPS Battery Backup
- Surge Protection
- Lightning Protection
- Alarm reset
- GFI
- Control Box heater and Thermostat
- UL Certification

- **Enclosed Trailer:**

**Interstate Model IT820TA2XLT Interior Dimensions 8'6" Wide by 6'5" Tall by 20'5" Long**

- All Wheel Electric Brakes with 12 VDC Breakaway switch
  - Independent torsion suspension
  - Double Swing Rear Doors with Semi-Style Camlocks
  - 32" Side Door
  - Clearance Lights
  - ¾" Plywood Floor
  - 3/8" interior Plywood Walls
  - Three (3) Year Trailer Warranty
  - Two Floor Vents
  - Front and Rear Stabilizer Jacks
  - Spare Tire
  - 1" Thermal Insulation inside interior walls
  - Hazardous Location Vent fan and Thermostat
  - Two (2) Hazardous Location Light and Switch
  - 3,600 Watt Hazardous Location Convection Heater and Thermostat
  - Installation of all Equipment and manifolds per Class 1 Div 2 Hazardous Location
  - **One (1) Layer of 3 ½" Convuluted Polyester Noise Absorption Foam panels on interior walls and ceiling.**
- **Maintenance Items for 1 Year**
    - Four (4) SVE Filter Elements
    - Four (4) Air Sparge Filter Elements
    - One (1) Vacuum Gauge
    - One (1) Pressure Gauge



APPROVED BY \_\_\_\_\_

DATE \_\_\_\_\_

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 Fliteway Technologies, Inc  
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8x20 TRAILER LAYOUT

OLSON ASSC.  
 LEXINGTON, NE

AND IS NOT TO BE REPRODUCED  
 WITH OUT WRITTEN PERMISSION

SIZE FSCM NO.

DWG NO. Q14190

3/23/12

SCALE NONE

SHEET 1 OF 1