Pan America Environmental, Inc.

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ENGINEERING SPECIFICATION

BF Series Bag Filtration System

Engineering Specification

MODEL RANGE	GET A QUOTE	SPEAK TO AN ENGINEER
BF-5 through BF-800	technical@panamenv.com	262.716.0105

EQUIPMENT DESIGN & CONSTRUCTION

Performance

The Pan America Environmental BF Series systems are designed to remove all filterable solids down to 15 micron particle sizing.

SECTION 1.0 EQUIPMENT

The BF Bag Filtration system will be designed and fabricated per the following specifications. The filter vessels shall be a vertical, cylindrical design with features as described.

1.01 Filter Cells

Each filter vessels shall be an 8” x 30” type design fabricated of carbon steel with an enamel exterior coating. A removable, perforated stainless steel internal, bag basket shall be provided. A clamp style cover is provided with a Buna-N sealing o-ring and cover handle. An adjustable, tripod vessel stand is provided to mount vessels to the system skid. Two (2) ¼” FNPT pressure gauge ports are provided for inlet and outlet pressure measurement. A 2”, FNPT drain outlet is provided at bottom of vessel.

1.02 System Plumbing

All three vessels will be mounted to the system skid and plumbed with 2”, schedule 80 PVC, tru-union ball valves on inlet and outlet to allow isolation of each vessel from the flow. The three inlets and outlets will be manifold plumbed together and provided with a single inlet and outlet FNPT connection at one end of the system skid.

Each vessel drain will be provided with 1 1/4” schedule 80 PVC ball valves. The drain valves will be manifold plumbed to allow a single, 1 ¼” FNPT connection at one end of the system skid.

1.03 System Skid

The filter vessels and plumbing shall be mounted to a carbon steel skid. The skid shall be coated with an industrial epoxy coating. Finish color to be Rain Forest Green or black.

1.04 Filter Bags

One (1) case (25 pcs) polyester, felt filter bags will be provided. A range of nominal micron removal is offered from 5 to 100 micron. Typical sizing would be in the 10 to 50-micron range. Choose the micron rating you require.

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1.05 Pressure Gauges

Each vessel shall be provided with two liquid-filled, stainless case, 0-160 psi, pressure gauges to measure inlet and outlet pressures.

SECTION 2.0 MATERIALS OF CONSTRUCTION

2.01 Filter Vessels

Tank shell, cover and legs shall be constructed of A-36 carbon steel. Bag basket shall be 304 stainless steel

2.02 Surface Preparation

Exterior surfaces shall be prepared to an SSPC-SP6 commercial blast.

2.03 Coatings

Interior coating: None. Exterior coating shall be oxide primer coat followed by industrial enamel coat (6 DFT). Finish color is black.

2.04 Piping

External piping shall be schedule 80 PVC.

2.05 Hardware

All non wetted hardware to be zinc plated. Vessel clamp parts to be 304 stainless steel.

2.06 I.O.M. Manuals

Two copies of the Installation, Operation and Maintenance manuals will be provided.

2.07 Assembly

The manufacturer of preference shall be:

Pan America Environmental, Inc. 6007 S. Railroad Street Burlington, WI 53105

2.08 Warranty

Pan America Environmental warrants its products to be free of defect in materials and workmanship for a period of one year from the date of shipment.

Specifying a BF Series Bag Filtration System for your project?

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