

BAGHOUSE

SP-800-M-097

Rev. 0

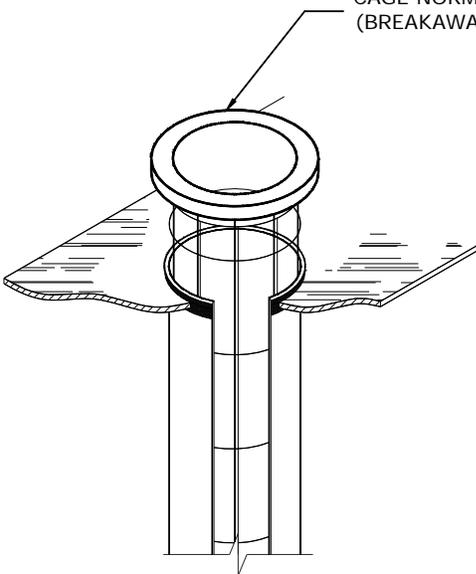
05/08/00

Page 1 of 2

Service: Incinerator flue gas containing fly ash particulate and spray dried powder from the spray drying of incinerator scrubber brine

	<p align="center">Operating and Mechanical Details</p> <p>Inlet Gases Temperature: dewpoint +30 °F to 510 °F with bypass excursions to 650 °F Vessel Pressure: -20 "W.C. to +20" W.C. Ash Discharge: 20,000 lb/hr. max Number of Compartments: 8 Air/Cloth Ratio: All modules on line: 3.44:1 One module cleaning: 3.94:1 Cleaning: Pulse Jet – Normal On line; Off line when ΔP high Operating ΔP: design 1 to 10" W.C. Insulation designed to limit gas temperature drop to 10 °F with 425 °F gas in winter Hopper below each compartment with 60° min side angles, hopper heaters, and air blaster system or vibrator to aid hopper discharge if needed</p>																	
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	<p>Materials of Construction Carbon Steel</p> <p>Instrumentation Bag Cleaning Controller Differential pressure switch indicator with high and low set points Local pressure indicators for each compartment Hopper level switches PLC Controller that includes bypass initiation for high or low inlet T, high ΔP, power failure, or by operator initiation. Interface between Control Board Computer and PLC</p>																	

Baghouse Filter Specifications

 <p>CAGE NORMALLY INSERTED (BREAKAWAY VIEW SHOWN)</p>	<p>Number of Compartments: 8 Filter Bags/ Compartment: 240 Total bags in baghouse: 1920 Surface Area/bag: 22 ft² Surface Area/compartment: 5280 ft² Surface Area/baghouse: 42,240 ft² Bag Size: 6" dia x 14' long Tube Sheet Connection: Snap Ring Support Cage : 5 7/8" dia x 14' long with integral venturi; 20 wires around circumference x 6" spacing</p>
	<p>Cleaning</p> <p>On-Line Cleaning:</p> <ul style="list-style-type: none"> • Starts when above adjustable ΔP setpoint • Inlet and outlet valves stay open. Typically 10 pulses per compartment and then shifts to next compartment. Length of pulse adjustable. • Continues until ΔP falls below adjustable setpoint <p>Off-line Cleaning :</p> <ul style="list-style-type: none"> • Starts when above adjustable ΔP setpoint • Inlet and outlet valves for selected compartment close. • Typically 10 pulses per compartment, Length of pulse adjustable. • Inlet and outlet valves for selected compartment open. Shift to next compartment. • Continues until ΔP falls below adjustable setpoint.
	<p>Material</p> <p>Cloth: 16 oz Fiberglass May be Teflon coated Suitable for 500 °F continuous service Cage: 1/8" thick steel wire</p>