

Technical Specification

Gold Series Collector

Project:

Dust Type:

Process / Application:

Air Volume:

Air to Cloth Ratio:

Site Conditions:

The collector(s) shall be an aspirated cartridge, continuously operating, self-cleaning type.

Construction shall be of minimum 10 gage steel. Major sections shall be modular, bolted construction, for maximum installation flexibility. The collector consists of filter module section(s) and hopper section(s) with support legs. The design of these sections shall be as follows:

The filter module shall contain the cartridge filter elements, reverse pulse cleaning system, clean air plenum and cartridge removal/replacement sealing hardware with support frame and side walls. The filter module shall have an inlet plenum box on the side. This inlet plenum box shall contain an internal perforate baffle for cross air flow design. The plenum box will be designed to provide low inlet velocities and thus maximum fall out of particles down into the hopper section as they strike the baffle. Design of the module(s) is such that there is maximum flexibility in placement of doors, inlet plenum (s), outlet panels or explosion vent panels (if required) to allow easy installation without special engineering or construction.

Cartridge filters shall be installed vertically, and removed by sliding on tracks accessible by doors. Doors shall be heavy duty of formed 10-gage design, with mechanically attached seal. Doors are sealed by a heavy-duty lift cambar mechanism. No knobs shall be used on the door. Door design is fully reversible in that the same door can be used at either side of the collector. The door shall have "lock out" and tagging capability.

Cartridges shall be self-positioning and an entire row shall be locked and sealed in place by means of tracks which are cam locking bars with handles at the door end to easily lock/unlock the cartridges into place. Cam bars are supported by heavy-duty, cast-iron support clips.

Cartridges shall have a minimum of _____ area each. Total media area of collector shall be _____ minimum. Media shall be

Media shall be corrugated into pleated cylinder design, with dimpled pleats. Cartridges shall have molded urethane round headers at the top and bottom. Attached to the top header plate shall be a rectangular stamped pan, that can be easily slid in/out on the cam bar tracks. The top header plate is removable, re-usable. The cartridge must be easily crushed and be incinerable for disposal. The rectangular pan shall have metal tabs so that cartridges cannot accidentally be slid on top of each other.

Internal to the cartridge shall be an internal media cone, which provides additional media and enhances reverse cleaning. This internal cone shall have a bottom opening in the bottom urethane header, which reduces the area of the header, and reduces overall can velocity effect. The top of the internal media cone shall have an injection molded piece for support and reverse airflow cleaning enhancement.

The cartridge shall have twin (2) gaskets on top of the cartridge. These shall be cast into the urethane top of the cartridge. The gaskets are continuous design; strip and glued gaskets are not acceptable. Gaskets shall not be directly exposed to the dirty air stream. Sealing and contact of cartridges can be verified by line of sight viewing from the door of the collector.

There shall be a helical cord retainer on the outside of the cartridge to retain shape during back pulsing. This cord retains the cartridge shape and pleat spacing yet allows as much media to be open as possible. External or internal metal screens and perforated or expanded metal are not acceptable.

The pulse cleaning system shall include the blow pipes, internal piping, compressed air header, solenoid valves, diaphragm valves. Only one cartridge shall be cleaned per tube sheet opening. Compressed air header may be either internal to clean plenum, or external, depending upon the application requirement. Compressed air will be supplied at 90-105 psig. Air will be clean, dry and oil free.

The module(s) shall have capability for a top outlet designed for direct mounting a flanged, direct drive fan. The clean air plenum shall also have another outlet on the side for additional flexibility if a remote fan is used. Lifting lugs shall be provided.

The hopper section shall contain the hopper(s) and integral fabricated support legs.

Hopper shall be

Hopper(s) shall accommodate

Hopper wall angle shall be sufficient to prevent dust build up and bridging of dust. Hopper wall angle shall be _____ minimum.

Support legs shall be designed to accommodate required dust discharge devices. Clearance under hopper required is

Design shall be in accordance with seismic zone , and wind load.

The unit parts shall be individually electrostatic powder painted, and once all parts are painted, the unit is fully assembled. There shall be no bare metal surfaces underneath any part of the unit.

Electrical enclosures shall be Cleaning cycle controls shall be available in microprocessor design which provides optimum cleaning operation. Control panel shall be remote mounted.

Fan shall be

Fan capacity shall be

Motor shall be electrics with enclosure.

Motor HP shall be horsepower, with 1.15 SF. Fan wheel shall be A mounted damper shall be supplied with the fan for capacity control.

Other required fan accessories and requirements:

Should recirculation of the discharge air be required, a secondary safety filter shall be supplied.

Safety filters shall be

Safety filters shall be mounted

Other Unit Requirements