



MET-PRO

Environmental Air Solutions

A Met-Pro Product Recovery/Pollution Control Technologies Business



Flex-Kleen[®] CT Series Pulse-Jet Dust Collectors

For high pressure/high vacuum applications

CT (Circular Tank) COLLECTORS... especially effective for dusting problems in drying, grinding and conveying systems

Experience

The CT Series is one of the highly-efficient lines of dust control equipment manufactured by Flex-Kleen Corporation. As specialists in the field of particulate collection, Flex-Kleen has been helping customers solve pollution and process applications problems for over 40 years. With over 100,000 installations on virtually every type of dust generating application we're certain to have an efficient and cost-effective solution for your situation.

Design Features

All F-K collectors are designed to operate in process system environments with minimum attention and maintenance. Standard CT units are designed for two levels of pressure capability of 40" to 100" W.G. or 17" Hg. (pressure or vacuum). Individual units can handle from 50 cfm to 40,000 cfm; multiple collector systems can be supplied to handle any desired gas volume. CT collectors can also be furnished for high pressure applications (over 15 psig), per Section VIII of the ASME Pressure Vessel Code, or for extremely low vacuum requirements.

Easy bag replacement – top bag removal models can be maintained from the clean air plenum; no tools are required to remove and replace the filter bags. Quick-release bag clamps are available as an option on bottom bag removal models as well, to eliminate the need for tools.

Easy installation – most CT collectors are shipped in one piece to minimize erection expenses; bags, cages, air header assembly, timer, and gauges are shipped separately to protect against damage in transit.

Minimum maintenance – No moving parts are located inside the collector; the pulsing timer and valves are all easily accessible for routine inspection.

Simple control – the Astro-Flex solid state timer is fully adjustable for both pulse duration and interval, assuring smooth process operation and maximum bag life.

The optional Smart Timer™ and Smart Timer II™ – are the next generation of intelligent dust collector timers providing many of the same features usually found in more costly and complex control panels.

Arrangements

CT Units can be purchased in any of three configurations:

ARR I – Clean air plenum (CAP) and bag cleaning system, flanged at the tubesheet for mounting on customer's equipment.

ARR II – Clean air plenum, bag cleaning system and dusty air plenum (DAP), flanged for mounting on user's equipment.

ARR III – Clean air plenum, bag cleaning system, dusty air plenum, and dust hopper with air inlet and flanged material discharge. Unit functions as a complete dust collector.

Advantages

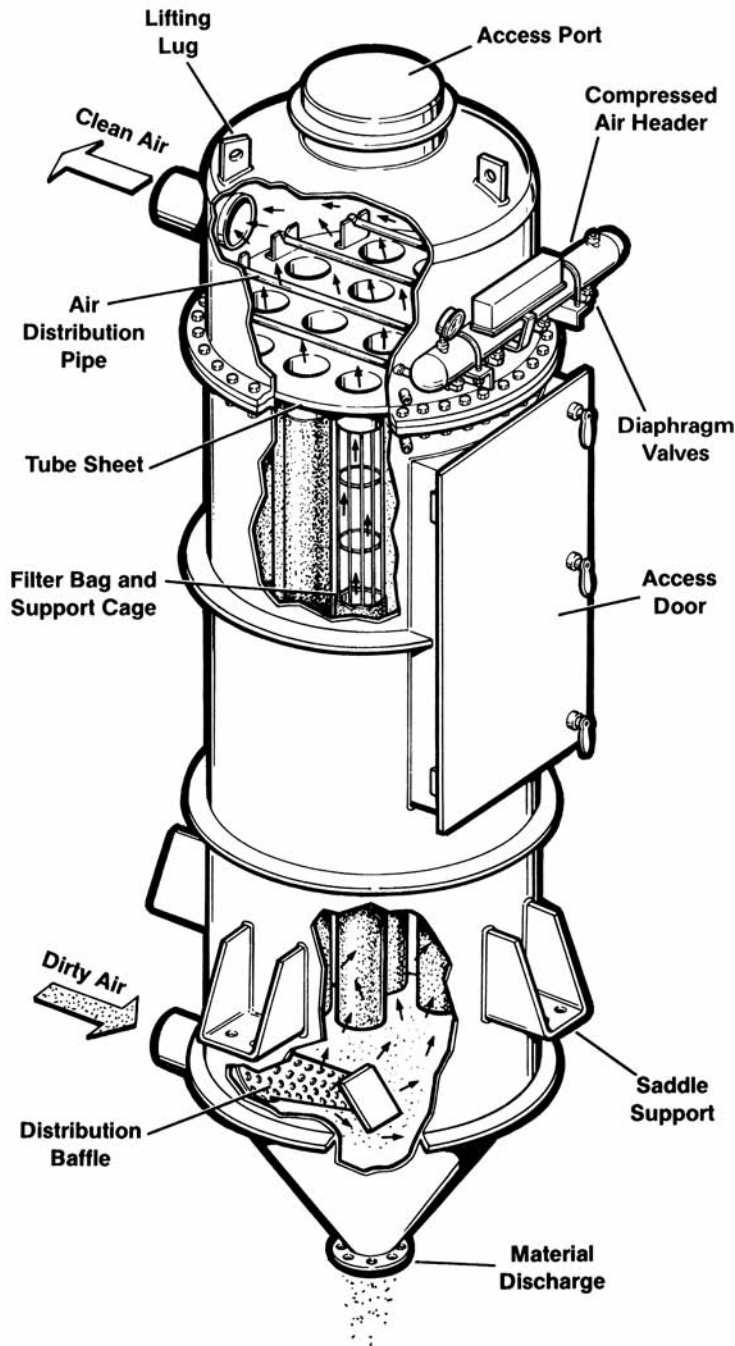
- ◆ Inlet baffle to protect bags from abrasive dusts.
- ◆ Dusty air inlet and clean air outlet easily oriented to meet user requirements.
- ◆ Quick access door(s) to dusty and clean sides of the collector on negative pressure units.
- ◆ Bolted door(s) to dusty and clean sides of the collector for positive pressure units.
- ◆ External compressed air reservoir. (Shipped complete, with prewired solenoid valves, ready to mount.)
- ◆ A wide variety of bag materials to suit specific needs.

- ◆ Flush tubesheet in the clean air plenum.
- ◆ Solid-state adjustable sequencing timer in standard dust-tight housing.
- ◆ Saddle supports located to match user's support steel.

Options

- ◆ Top bag removal with removable head or walk-in plenum.
- ◆ Stainless steel or epoxy coated bag cages.
- ◆ Quick release bag clamps.
- ◆ Pressure differential switch to signal a rise in pressure drop.
- ◆ Explosion proof electrical components.
- ◆ Support legs and access platforms.
- ◆ High temperature alarm systems.
- ◆ Flanged dust inlet and outlet.
- ◆ 70° hoppers (standard is 60°).
- ◆ Hopper vibrator pads and vibrators.
- ◆ Tangential inlet with cyclone ring.
- ◆ Explosion relief vents/rupture discs.
- ◆ Static electricity grounding systems.
- ◆ Interior safety grids.
- ◆ Fan support platforms.
- ◆ Abrasion-resistant wear plates.
- ◆ Bag-free interior walkway for servicing.
- ◆ Aluminum or special alloy construction throughout.
- ◆ FRP construction.
- ◆ Heat tracing.
- ◆ Factory installed insulation

CT Series Highlights



(Bottom Bag Removal Shown)

Operation

All Flex-Kleen pulse-jet collectors operate in essentially the same manner. Dust laden air enters the dirty air plenum, hopper, or silo (Arr. I only); heavier dust particles drop out. The air carrying the remaining dust particles passes up and around the bag surfaces. As the air passes through the bags to the inside, the dust particles are captured on the bag surface and in the bag material. The clean air passes up the inside of the bags, thru the Venturis, into the clean air plenum and is subsequently vented to the atmosphere or returned to the process.

On-Line Cleaning

A burst of compressed air is used to clean a portion of the filter bags while the remainder of the bags continue in operation.

At preselected intervals a diaphragm valve opens, flooding one of the air distribution pipes above the bags with compressed air from the supply header. Holes in the bottom of each distribution pipe direct the compressed air pulse into a venturi located in the top of the bag; this momentarily interrupts the process air flow through the bags and aspirates filtered air from the clean air plenum back into the bags, assisting in the cleaning process.

Consistently Identified as the Very Best

CT Series Highlights Ordering Information

Select from a wide range of collector models and designs it's easy to find a collector that's ideal for your application.

CTB Models

The basic CT unit with bottom bag removal.

CTT Models

Top bag removal with removable head.

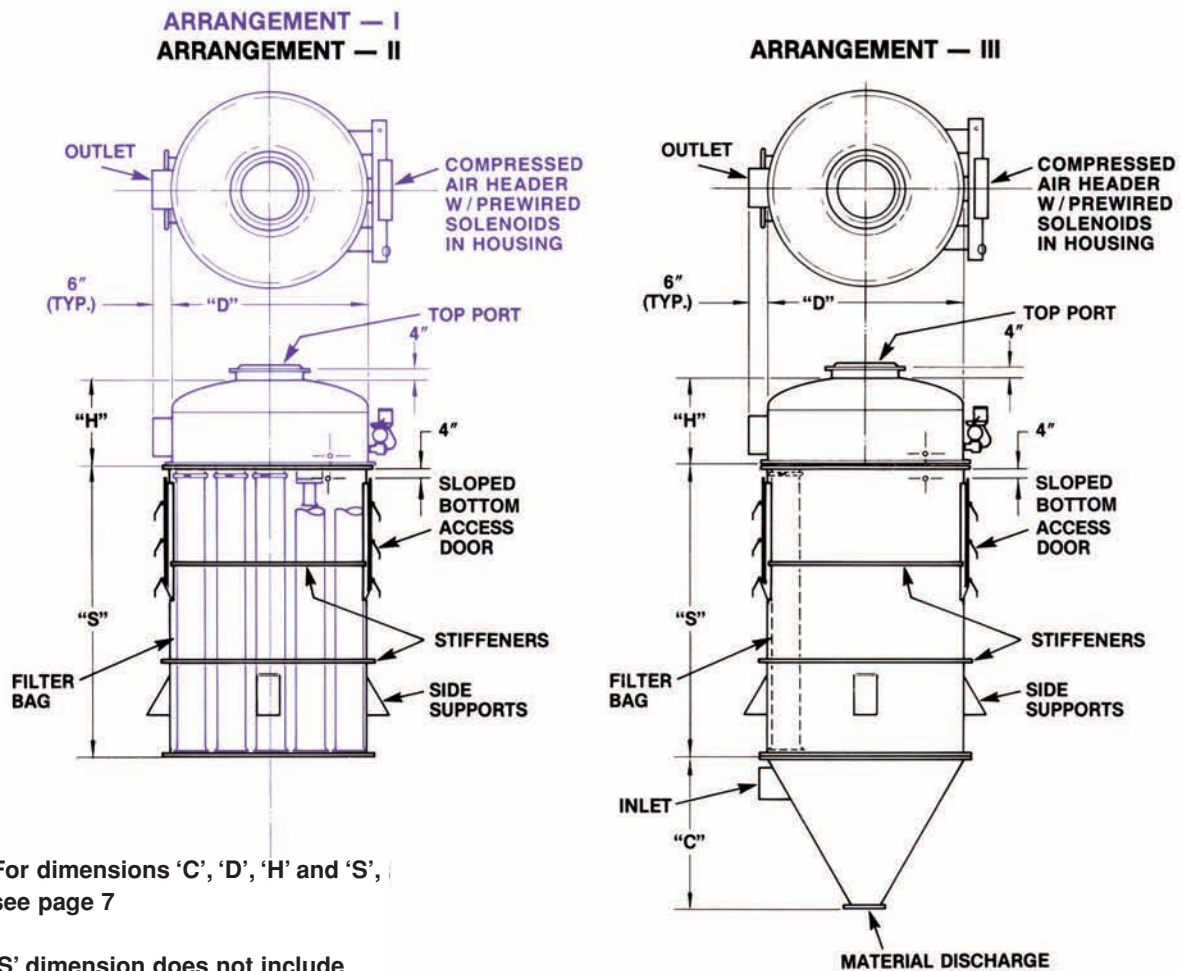
CTW Models

Top bag removal with walk-in clean air plenum.

Special Designs

Any of the models described above can be furnished in all stainless steel, special alloy, FRP, or sanitary construction, or for ASME code pressure vessel service (or other high positive/negative pressure situations).

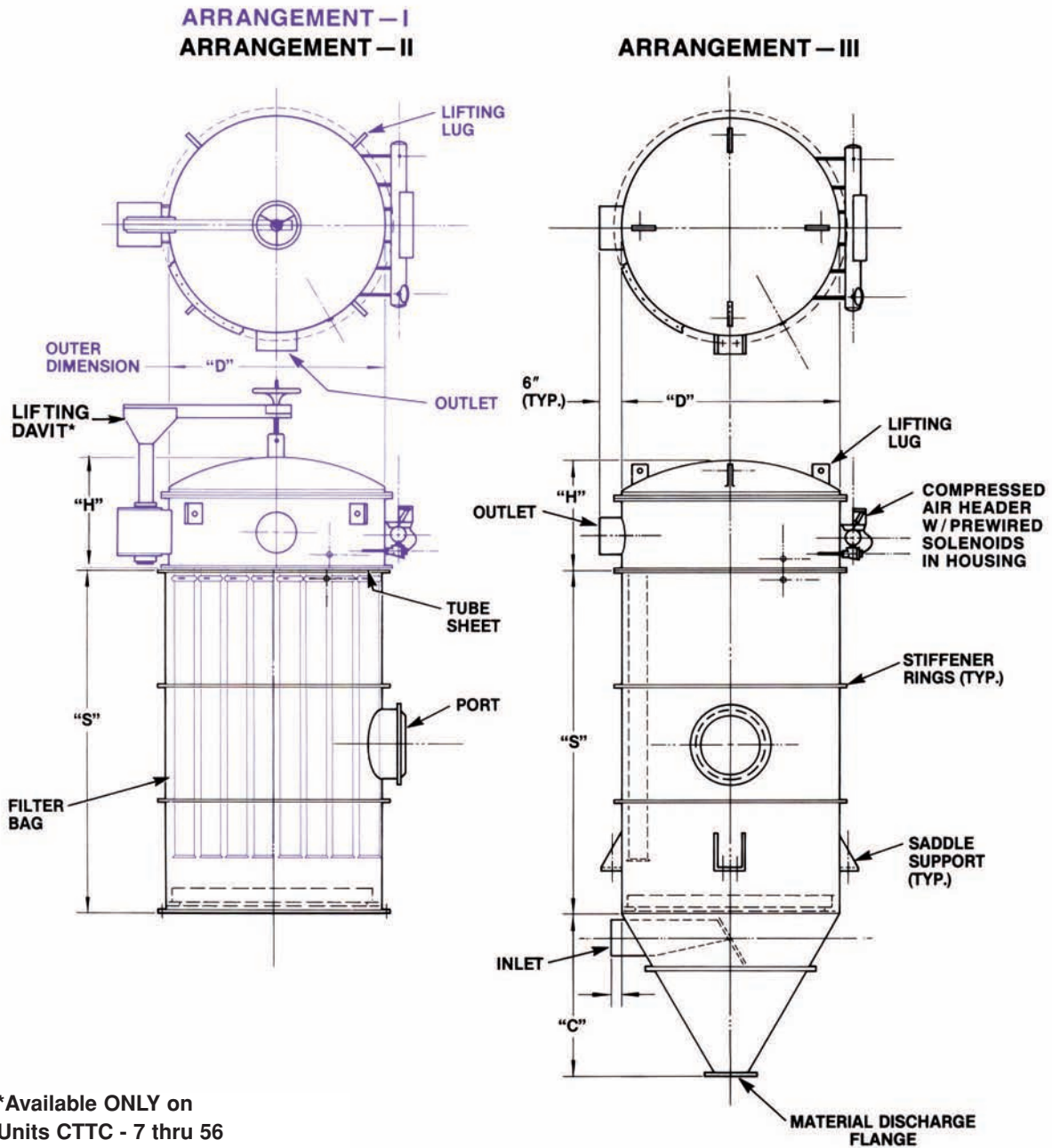
CTB Models Bottom Bag Removal



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CTT Models

Top Bag Removal with Removable Head



*Available ONLY on
Units CTTC - 7 thru 56

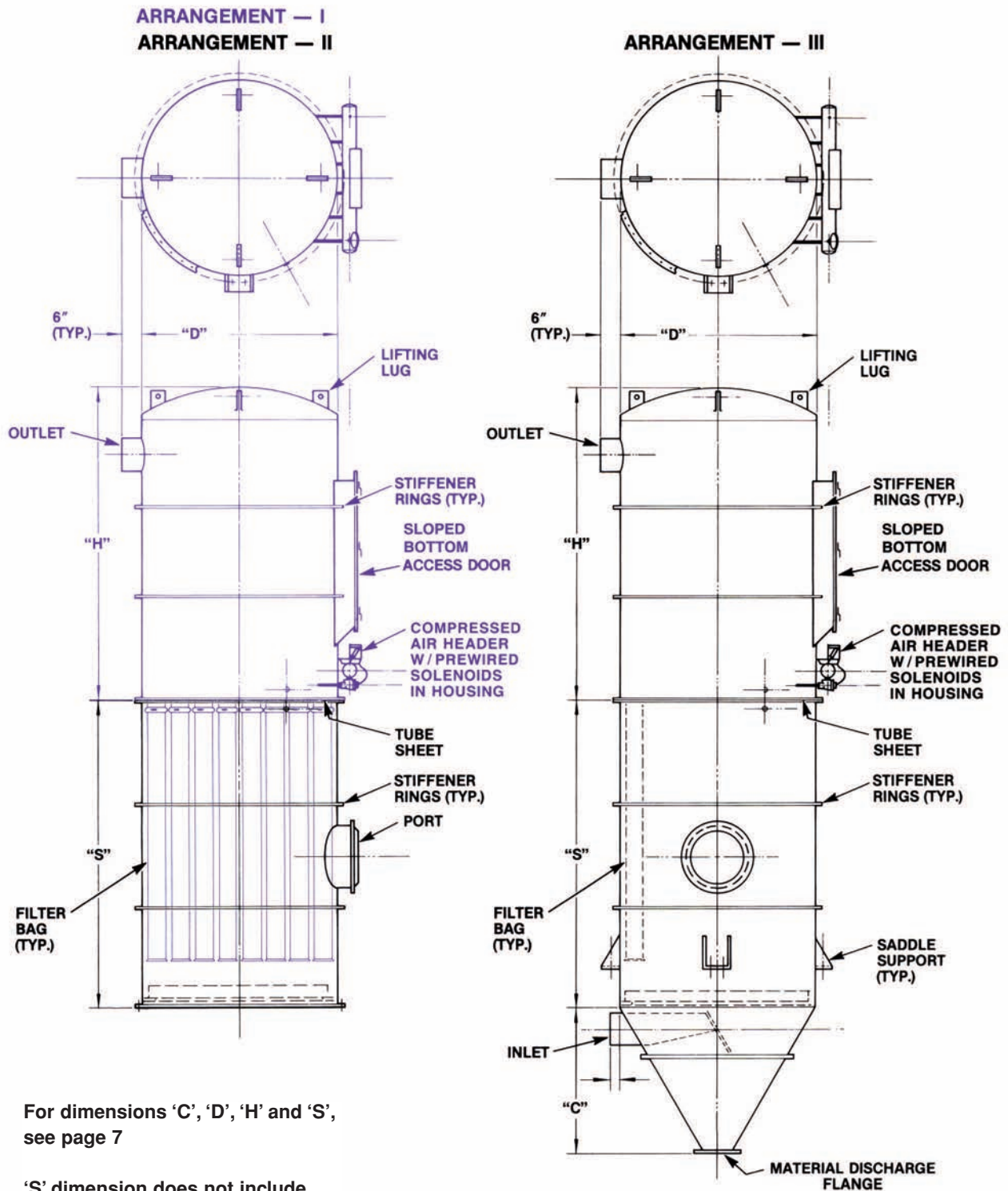
For dimensions 'C', 'D', 'H' and 'S',
see page 7

'S' dimension does not include
internal grid platform

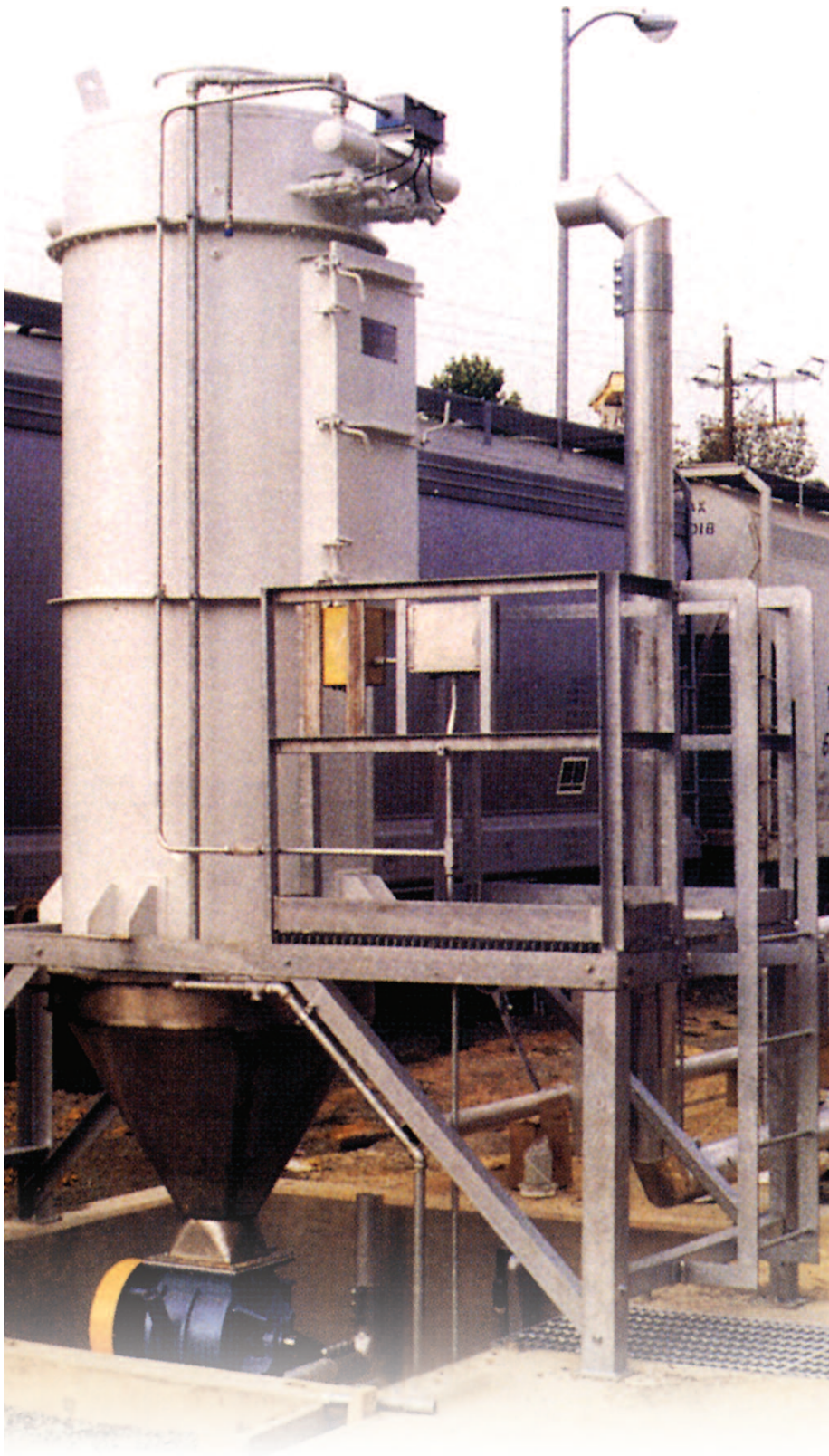
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CTW Models

Top Bag Removal with Walk-In Plenum



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Special Designs/Finishes

CT units can be designed to eliminate dust-catching crevices in the dusty air section to satisfy USDA standards. Welds can be ground-flush and interior surfaces polished to discourage dust build-up. Sanitary design CT's can be furnished for all types of food and pharmaceutical applications.

Other options

Smart Timer™ Demand Pulse Systems are available at low additional cost. Saves energy, maintains even pressure and promotes long bag life.

Coatings

Our engineers can assist you in selecting coatings specifically suited to your applications.

Core replacement

Flex-Kleen has considerable experience in providing replacement pulse-jet cores for older shaker/reverse air, low ratio collectors, improving system performance dramatically with minimal changes to duct work, structural supports, building steel, etc.

Aftermarket

Our aftermarket service capabilities are the best in the business. It's part of our commitment to deliver service for the life of your fabric filter-today, tomorrow, and into the future.

Other Flex-Kleen Products and Services

- ◆ Bin Vent Filters
- ◆ Welded Modular Collectors
- ◆ ComPleat Pleated Filters
- ◆ CDC Cartridge Filters
- ◆ Mechanical Cyclones
- ◆ Smart Timer™ and Smart Timer II™
- ◆ Flex-Sense™ Emission Sensors
- ◆ Silo Vent Filters
- ◆ On-site Dust Collector Maintenance Services

Contact Flex-Kleen at 1-800-621-0734 or via our website at www.flex-kleen.com



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