

Flex-Kleen

A CECO Environmental Brand

CECO
ENVIRONMENTAL

cdcTM Cartridge Dust Collector

***Easy to Operate
and Maintain***

***Cost Effective
Operation***

***Engineered for
Maximum Access***

***Superior Collection
Efficiency***



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The cdc™ Cartridge Dust Collector Engineered to be the Best Cartridge Collector Available

What makes the Flex-Kleen cdc™ Cartridge Dust Collector better than any other? Simply put, we designed a system that performs the way a cartridge collector is supposed to work: easy installation, high collection efficiencies, quick cartridge change-outs, and cost effective trouble-free operation, all in a low headroom and small footprint.

The cdc™ suits a wide range of industrial applications:

- Abrasive Blasting
- Chemical Processing
- Food Processing
- Foundries
- Grain & Feed Operations
- Grinding & Machining
- Pelletizing (wood/plastic)
- Pharmaceutical
- Powder Coating
- Welding Fumes

The cdc™ is capable of providing collection efficiencies as high as 99.999%. With standard systems ranging in size to 60,000 cfm, Flex-Kleen offers design and equipment to meet your process requirements. cdc™ units are available in a variety of construction materials and arrangements.

Flex-Kleen offers a full range of filter media.

System performance depends on matching the application to the correct filter media. A full range of media, coatings, and cartridge construction materials are available, including cellulose, felted fabric, membranes, and high temperature cartridges.

Cartridge change-outs are quick and easy.

Flex-Kleen made quick change-outs a priority in its cdc™ cartridge collector design. Replacing cartridge filters is a simple process performed without tools. Our unique design ensures perfect cartridge alignment every time, eliminating leaks.



The cdc™ cartridges slide easily in and out of the collector. Support rails guarantee perfect cartridge alignment every time.



Notched end of the horizontal bar slides over studs, aligning the gasketed clamp over the filter end cap. All cartridge gasket surfaces mate perfectly every time.



Unique toggle screw handle allows for proper compression of sealing gaskets and perfect alignment of cartridges every time.

Flex-Kleen® Fabric Filters: A reputation for engineering solutions

An Inside Look at the cdc™ Cartridge Dust Collector

Custom Inlet Design

Unlike some other cartridge collectors, the **cdc™** offers turning vanes and baffles which evenly distribute air and dust while minimizing housing turbulence and cartridge abrasion. This engineered inlet design is not a high cost option, but a standard feature in **cdc™** collectors.

Turned inlets result in higher removal efficiencies, extended cartridge life and reduced energy consumption.

Single Door Entry

The **cdc™** includes a large panel door for access to multiple cartridge rows without entering the housing. Immediate access to the entire dirty air side means time efficient maintenance. Competitive systems have individual doors for each cartridge element, limiting access to the dirty air plenum.

The cdc™ design allows for more rapid inspection, maintenance, and filter replacement compared to other cartridge systems.

Cartridge Support and Clamping System

Full length cartridge cradle supports with locator studs ensure perfect cartridge alignment every time. Common competitive designs use a loose-fitting cartridge support often leaving one cartridge end unsupported. Flex-Kleen's easy-to-use clamping system prevents twisting and unwanted torque during compression and virtually eliminates gasket distortion.

Clamping system eliminates a major source of dust leaks and ensures peak operating efficiency.

Pulse Venturis

The **cdc™** collector uses a premium venturi design, a feature not found on all cartridge collector units.

Ensures the most economical and effective cartridge pulsing.

Pulse Control The **cdc™** system is capable of differential pressure control with Flex-Kleen's premium pulse-on-demand timer board.

Minimizes compressed air needs, maximizes collector efficiency, and reduces fan energy costs.

Off-line Pulsing

Flex-Kleen's SMART TIMER I initiates automatic pulse cleaning each time the fan is shut down. Processed dust volumes are not reprocessed upon startup. You are not handling dust twice.

Feature prevents residual dust build-up resulting in reduced pressure drop and the cleanest possible cartridges at the time of each startup.

Housing Construction

Welded 12-gauge construction, externally stiffened to $\pm 20''$ w.g., coupled with no internal ledges, ensures that residual dust is not left in the collector, an important consideration in both process and hazardous dust collection.

Solid construction and no internal ledges results in a durable and long-life collector.



cdc™ Cartridge Dust Collector Sizing Chart

2-Cartridge Rows High		
Cartridge Rows Wide	Model Number	Total Cartridges
2	CDC 2-2-8	8
3	CDC 2-3-12	12
4	CDC 2-4-16	16
5	CDC 2-5-20	20
6	CDC 2-6-24	24
7	CDC 2-7-28	28
8	CDC 2-8-32	32
9	CDC 2-9-36	36
10	CDC 2-10-40	40
11	CDC 2-11-44	44
12	CDC 2-12-48	48

3-Cartridge Rows High		
Cartridge Rows Wide	Model Number	Total Cartridges
2	CDC 3-2-12	12
3	CDC 3-3-18	18
4	CDC 3-4-24	24
5	CDC 3-5-30	30
6	CDC 3-6-36	36
7	CDC 3-7-42	42
8	CDC 3-8-48	48
9	CDC 3-9-54	54
10	CDC 3-10-60	60
11	CDC 3-11-66	66
12	CDC 3-12-72	72

4-Cartridge Rows High		
Cartridge Rows Wide	Model Number	Total Cartridges
2	CDC 4-2-16	16
3	CDC 4-3-24	24
4	CDC 4-4-32	32
5	CDC 4-5-40	40
6	CDC 4-6-48	48
7	CDC 4-7-56	56
8	CDC 4-8-64	64
9	CDC 4-9-72	72
10	CDC 4-10-80	80
11	CDC 4-11-88	88
12	CDC 4-12-96	96

Cartridge Area: Allow 226 ft² for standard cellulose cartridges. Filter media cartridge upgrades are available. Filter area may vary depending on media selection.

To calculate Media Area: $M_t = C_t * M_a$

Where: M_t = Total Media Area
 C_t = Total Cartridges in Unit
 M_a = Media Area per Cartridge (ft²)

To calculate Air Flow Capacity: $Q = M_t * M_v$

Where: Q = Volumetric Flow Rate (CFM)
 M_t = Total Media Area
 M_v = Media Velocity (FPM)
 (Normally between 1.0 and 2.0 FPM)

Maintain or improve collector performance and reliability with genuine Flex-Kleen aftermarket parts and services. Contact Flex-Kleen or your local representative for timely professional assistance.

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Local Representative:

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