





CMAXX SPOT FILTER SYSTEM

The CMAXX[™] Spot Filter is designed to work in small spaces. It is a true work horse that handles high air flow and bulk solids.

BRF

BAGHOUSE

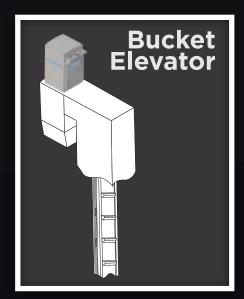
MEDIUM PRESSURE

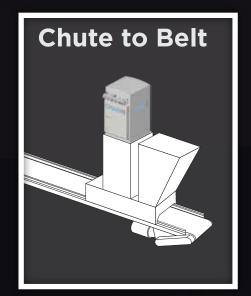
& REVERSE AIR

BRF's (Big Round Filter) are specially designed grain dust collection systems built to handle the heavy loading from grain applications involving drying, conveyor transfer points, dump pits, roller milling, bin venting, grain cleaners, bucket elevators, hammer mills and more.

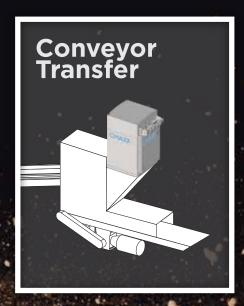










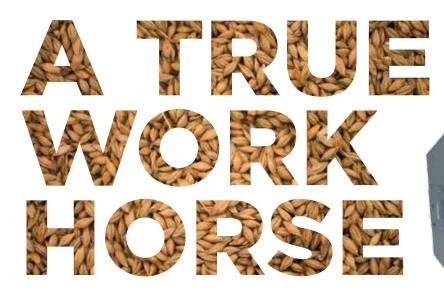










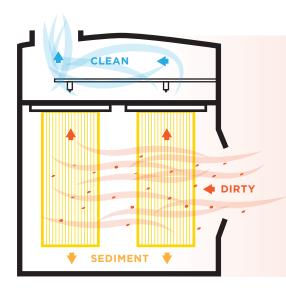


The CMAXX Spot Filter is designed to work in small spaces. It handles high air flow and bulk solids along with effectively filtering the most challenging particulates.

Whether you need a compact CMAXX with legs and a hopper or bin vent style, the space saving construction allows for easier placement at the source of the dust.

Design options include standard tall filter or half filter models depending on your application needs. With a modular 10 gauge steel construction, no exterior bolt holes and domed roof, the CMAXX has a long lifespan that stands up to the elements.





HOW IT WORKS

Dirty air is pulled in from duct work or from beneath the collector and particulates are captured by the DeltaMAXXTM filters or filter bags. The clean air is pulled through the filter media and up into the clean air plenum. The air then exits the collector and goes to the return air duct. Compressed air pulses down into the filter cleaning it from the inside out. The dust cake built on the filter is then knocked down into the grating below or into a hopper.

IN-LINE DEFLAGRATION ARRESTER

The CMAXX, along with the proprietary IDA DeltaMAXX filters, has been PROVEN to isolate a deflagration and stop a flame front. Third party testing of the CMAXX shows explosive flame front being forced through the vent. With the explosion vent covered, 100% of the flame front was forced through the IDA DeltaMAXX filters and NO spark or flame was present.





Using a CMAXX without explosion venting, the unit's body was also tested to withstand a deflagration of corn starch at 185 KST with pressures exceeding 4 PSI. The entire explosion diverted through the IDA DeltaMAXX filters, which showed no sign of deformation. The internal cages of the filters remained in perfect shape and the seals were not deformed or melted whatsoever. All testing, proving that the CMAXX can be used as a flame front deflagration arrestor/arrester when used in conjunction with IDA DeltaMAXX filters, is backed by third party testing. Reports and test results can be provided upon request.

In addition, the IDA DeltaMAXX filters work off of the same primary cleaning system that the CMAXX uses, ensuring that the filters are consistently cleaned during operation. Similar systems that use after filters do not have any means for online cleaning.

The results conform to NFPA 69 12.2.5.2 Static Dry Flame Arrester Designs and Chapter 5 under performance based option, both NFPA 654 to prevent the "extension of the flame front outside the compartment or equipment of origin except where intentionally vented to a safe location" 5.2.5 (2) and NFPA 69 "to limit and risk of flame spread from vessel to vessel via interconnecting ducts" 5.2.4 (3), 5.2.5 (2).

CARTRIDGE



TYPICAL PLEATS



OPEN PLEATS



NO PLEATS



BEST APPLICATION:

Fumes

Powder

Dust

Silica

Grain

Seed

Sawdust

Very Fine Dust



BEST APPLICATION:

Grain

Seed

Sawdust

Food

Medium Dust



BEST APPLICATION:

Food

Feed

Coarse

Heat

Fiber

Sticky

Large or Sticky Dust





Now the CMAXX™ can tackle anything you throw at it.

Allows you to change out filters without space concern. Now you can pick and choose any media and filter type you need. Go from a cartridge to a bag depending on the application and your needs at anytime in your process.



Less time to change filters



Cleaner filter exchange



No confined space



Easier filter access



Most efficient with sticky dust

| | | Filter Quanity | Filter Area (sq. ft.) | Nominal CFM Range | Width | Depth | Height | Height with Fan (ft) | Weight (lbs.) | Weight With Fan (lbs.) |
|------------------------|-------------|-------------------|--------------------------|----------------------|-------|-------|--------|-------------------------|---------------|--|
| CMAXX BAG HYBRID | CMBag002 | 12 | 78 | 39-351 | 45 | 22.5 | 88.375 | 112.375 | 1651 | 1901 |
| | CMBag004 | 24 | 156 | | 45 | 45 | 88.375 | 121.875 | 2042 | |
| | CMBag006 | 36 | 234 | 117-1053 | 45 | 67.5 | 88.375 | 123.375 | 2533 | 3023 |
| | CMBag008 | 48 | 312 | 156-1404 | 45 | 90 | 88.375 | 127.375 | 2919 | |
| | CMBag010 | 60 | 390 | 195-1755 | 45 | 112.5 | 88.375 | 131.875 | 3300 | 4090 |
| | CMBag012S | 72 | 468 | 234-2106 | 90 | 67.5 | 88.375 | 138.875 | 4001 | 5021 |
| | CMBag012L | 72 | 468 | 234-2106 | 45 | 135 | 88.375 | 136.375 | 3706 | 4726 |
| | CMBag016S | 96 | 624 | 312-2808 | 90 | 90 | 88.375 | 142.375 | 4748 | 6118 |
| | CMBag016L | 96 | 624 | 312-2808 | 45 | 180 | 88.375 | 142.375 | 4588 | 5958 |
| | | | | | | | | | | |
| CMAXX | | | | | | | | 101 | | |
| | CMSpot002 | 2 | 700 | 350-3150 | 45 | 22.5 | 77.25 | 101 | 1670 | 1920 |
| | CMSpot004 | 4 | 1400 | 700-6300 | 45 | 45 | 77.25 | 110.5 | 2080 | 2520 |
| | CMSpot006 | 6 | 2100 | 1050-9450 | 45 | 67.5 | 77.25 | 112 | 2590 | 3080 |
| | CMSpot008 | 8 | 2800 | 1400-12600 | 45 | 90 | 77.25 | 116 | 2995 | 3575 |
| | CMSpot010 | 10 | 3500 | 1750-15750 ———— | 45 | 112.5 | 77.25 | 120.5 | 3395 | 4185 |
| | CMSpot012S | 12 | 4200 | 2100-18900 | 90 | 67.5 | 77.25 | 127.5 | 4115 | 5135 |
| | CMSpot012L | 12 | 4200 | 2100-18900 | 45 | 135 | 77.25 | 125 | 3820 | 4840 ——————————————————————————————————— |
| | CMSpot016S | 16 | 5600 | 2800-25200 | 90 | 90 | 77.25 | 131 | 4900 | 6270 ———————————————————————————————————— |
| | CMSpot016L | 16 | 5600 | 2800-25200 | 45 | 180 | 77.25 | 131 | 4740 | 6110 |
| | | | | | | | | | | |
| CMAXX HALF | CMSpot002H | 2 | 350 | 175-1575 | 45 | 22.5 | 57.75 | 81 | 1435 | 1635 |
| | CMSpot004H | 4 | 700 | 350-3150 | 45 | 45 | 57.75 | 86.5 | 1805 | 2165 |
| | CMSpot006H | 6 | 1050 | 525-4725 | 45 | 67.5 | 57.75 | 88 | 2275 | 2690 |
| | CMSpot008H | 8 | 1400 | 700-6300 | 45 | 90 | 57.75 | 91 | 2640 | 3080 |
| | CMSpot010H | 10 | 1750 | 875-7875 | 45 | 112.5 | 57.75 | 92.5 | 3000 | 3490 |
| | CMSpot012SH | 12 | 2100 | 1050-9450 | 90 | 67.5 | 57.75 | 95 | 3595 | 4085 |
| | CMSpot012LH | 12 | 2100 | 1050-9450 | 45 | 135 | 57.75 | 92.5 | 3380 | 3870 |
| | CMSpot016SH | 16 | 2800 | 1400-12600 | 90 | 90 | 57.75 | 99 | 4340 | 4920 |
| | CMSpot016LH | 16 | 2800 | 1400-12600 | 45 | 180 | 57.75 | 99 | 4100 | 4680 |
| | | | | | | | | | | |

IMPERIAL SYSTEMS INC.

Located just north of Pittsburgh, Pennsylvania in the small town of Jackson Center, Imperial Systems is among the top dust collection equipment manufacturing businesses in North America. Our values are built on designing and installing custom industrial dust collection systems with the strongest, most durable fabrication to meet our customer's needs.

We also manufacture industry leading products, engineered for outstanding quality, safety and value. We maintain a large inventory of Imperial Systems manufactured dust collection equipment. As a customer-driven solutions provider, we've earned credibility and have established strong relationships by exceeding expectations with professional service and attitude.

Our product line includes: CMAXX Dust and Fume Cartridge
Collectors, DeltaMAXX Cartridge and Bag Filters, BRF Baghouse Dust
Collectors, Pulse Jet Baghouses, Cyclone Dust Collectors, Airlocks,
Slide Gates, Diverter Valves, Abort Gates, Backdraft Dampers, Flex
Hose and all duct and components.

Our network of Imperial Systems Inc. representatives are all highly trained problem solvers with specialized training in supporting our clients. Contact us about your operation and one of our local representatives will give you a call.

MARKETS SERVED

Nearly every manufacturing process generates dust. We design innovative but practical and useful dust collection solutions for just about every industry, including, but not limited to: recycling, seed, grain, carpentry, welding, CNC plasma/laser cutting, thermal spray, grinding, mining, aggregate, sand blasting, aluminum, powder coating, biofuels, food processing, pet food, fiberglass, agricultural, chemical processing, paper scrap, fiberglass and many more.

INSTALLATION & SERVICE

Imperial Systems, Inc. field crews are fully trained to install and service a wide variety of dust collection systems all over the United States and Canada. Our field crews are committed to safe working practices and following customer facility regulations.



15 YEAR INDUSTRY LEADING WARRANTY

Imperial Systems, Inc. warrants to the original purchaser that the major structural components of the dust collector will be free from defects in materials and workmanship for Fifteen (15) years from the date of shipment, if properly installed, maintained and operated under normal conditions. Imperial Systems, Inc. warrants all other Imperial Systems, Inc. - built components and accessories including Imperial Systems, Inc. airlocks, fans, cyclones, dampers and valves housings for Twelve (12) months. Imperial Systems, Inc. warrants filters to be free from defects in materials and workmanship for Twelve (12) months from date of shipment. Imperial Systems, Inc. does not warrant damages which are due to corrosion, abrasion, normal wear and tear, product modification or product misapplication, Imperial Systems, Inc. also makes no warranty whatsoever as to any goods manufactured or supplied by others, including, but not limited to, electric motors and control components. After Imperial Systems, Inc. has been given adequate opportunity to remedy any defects in material or

workmanship, Imperial Systems, Inc. retains the sole

option to accept return of the goods, with freight paid by
the purchaser, and to refund the purchase price for the
goods after confirming the goods are returned
undamaged and in usable condition. Such a refund will
be the full extent of Imperial Systems, Inc. liability.
Imperial Systems, Inc. shall not be liable for any other

costs, expenses or damages, whether direct,

otherwise. The terms of this warranty may be modified only by a special warranty document signed by the President of Imperial Systems, Inc. There exist no other representations, warranties or guarantees except

as stated in this paragraph. All other warranties, including merchantability and fitness for a particular purpose, whether express or implied, are hereby expressly excluded and disclaimed.

FAILURE TO USE GENUINE IMPERIAL SYSTEMS, INC. REPLACEMENT PARTS WILL VOID THIS WARRANTY.



IMPERIAL SYSTEMS INC.

7320 West Market St. Mercer, PA 16137

800.918.3013

isystemsweb.com

