

DUST & FUME COLLECTION SYSTEM





"TO IMPROVE THE HEALTH, SAFETY,
AND QUALITY OF PEOPLE'S LIVES
BY BUILDING THE BEST DUST AND
FUME COLLECTORS ON EARTH"

IMPERIAL SYSTEMS, INC.

THE MOST ADVANCED

& SAFEST DUST

COLLECTOR

ONEARTH



CMAXX IDA TESTING

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"



INDUSTRY LEADING



Imperial Systems, Inc. warrants to the original purchaser that the major structural components of the CMAXX™ dust collector will be free from defects in materials and workmanship for the lifetime of the equipment, if properly installed, maintained and operated under normal conditions. Imperial Systems, Inc. warrants filter cartridges to be free from defects in materials and workmanship for twelve (12)

Imperial Systems, Inc. does not
warrant damages which are due
to corrosion, abrasion, normal wear and

months from date of shipment.

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 on a prorated

tear, product modification or product misapplication.

basis 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, indirect,

special, incidental, consequential or 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 merchant-ability and fitness
for a particular purpose, whether express or implied, are

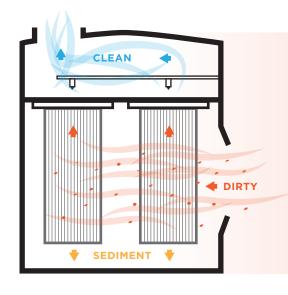
Breathe Better, Work Safer

hereby expressly excluded and disclaimed.

OR LIFE

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

COMPARISON CHECKLIST	CMAXXXX DUST & FUME COLLECTION SYSTEM	Leading Vertical Filter Cartridge Dust Collector	Leading Horizontal Filter Cartridge Dust Collector
Arched Roof			
Vertical Cartridge Filters			
No External Bolt Holes	•		
Modular Design			
Heavy Duty Doors			
7 & 10 Gauge Construction			
Various Filter Medias			
Variety of Applications			
Easy Filter Access			
Custom Powder Coat			
Even Lock Technology Lift Rails			
Anti-Ramp Filter Rail			
Lifetime Warranty			
In-line Pulse Valves			
Custom Design	•		



HOW IT WORKS

Dirty air is pulled in from duct work and particulates are captured by the DeltaMAXX™ filters. 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.

CMAXX APPLICATIONS

Imperial Systems has a long line of successful grain dust collection systems installations. Our CMAXX dust collection systems span from small processing mills to some of the country's largest grain export terminals.

GRAIN INDUSTRY



PLASMA CUTTING

Imperial Systems' CMAXX is the perfect modular collector for plasma cutting dust collection. The CMAXX comes in many different variations and is modular in design so making a standard model custom is an easy task.

The CMAXX Dust Collector is the perfect solution for welding shops and schools. From Source Capture to Ambient Systems, the CMAXX easily handles any of your welding fume extraction needs and more.

WELDING FUMES



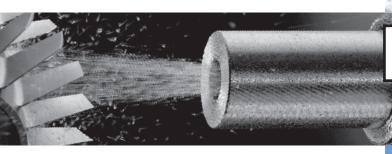


SILICA DUST

The CMAXX Silica Dust Filtration System can be customized to fit your dust collection needs. The CMAXX dust collector with DELTAMAXX Cartridge Filters will make most any Silica Dust application process an easy task. We work with many customers that need custom solutions.

Imperial Systems has a long line of successful dust collection installations in fiberglass. With our turn key capabilities and extensive background in fiberglass dust collection we are truly one of the country's biggest names in the fiberglass industry.

FIBERGLASS DUST



SHOT BLASTING

Blasting is a very diverse market and includes a large variety of different medias from sand to plastic. The CMAXX Dust Collector System has specially designed features that are suitable for all blasting applications.

Imperial Systems has a long line of successful woodworking dust collection system installations in the industry. Our woodworking dust collection systems span from small cabinet shops to some of the largest names in flooring.

WOODWORKING



COMBUSTIBLE DUST & FIRE ACCESSORIES

SPARK TRAP

Extinguishes sparks and burning embers. Reduces the risk of fires and explosions. Heavy duty construction. No moving parts and No maintenance. Can be installed vertically or horizontally.

EXPLOSION ISOLATION VALVE

The installation of an explosion isolation device on all suction side ducts that transport material with a Kst value above zero is an NFPA requirement. Installing a Explosion Isolation Valve will protect workers and facilities from the damaging effect of a baghouse or filter explosion.

♠ | FAST ACTING SLIDE GATE

Pneumatic Slide Gates are engineered to control air flow and conserve energy. These gates deliver a positive shut-off to service machinery or to divert air.

Remote operation, machine integrated. Safety guards reduce the risk of injury.

A | SPARK DETECTION

Fire and explosion prevention.

Explosion and spark is registered to the millisecond.

Eliminates Ignition source.

Risk management of your production process.

FIKE FIRE SUPPRESSION

Fike fire protection systems are effective, easy to use, and safe for people, key assets, facilities and the environment. Whether your needs are industrial, commercial or special hazard applications. Total flooding suppression agent.

FIRE TRACE

Passive, self-actuating fire suppression system. Indirect and Direct release systems using polymer tubing. Compatible with most fire suppression agents. Suppresses fire at the source and in seconds.

SMOKE DETECTOR

It detects smoke and will automatically shut down the collector. It can also engage any action that can be directly wired to the smoke detector to further prevent a flame front or damage to the collector or facility.

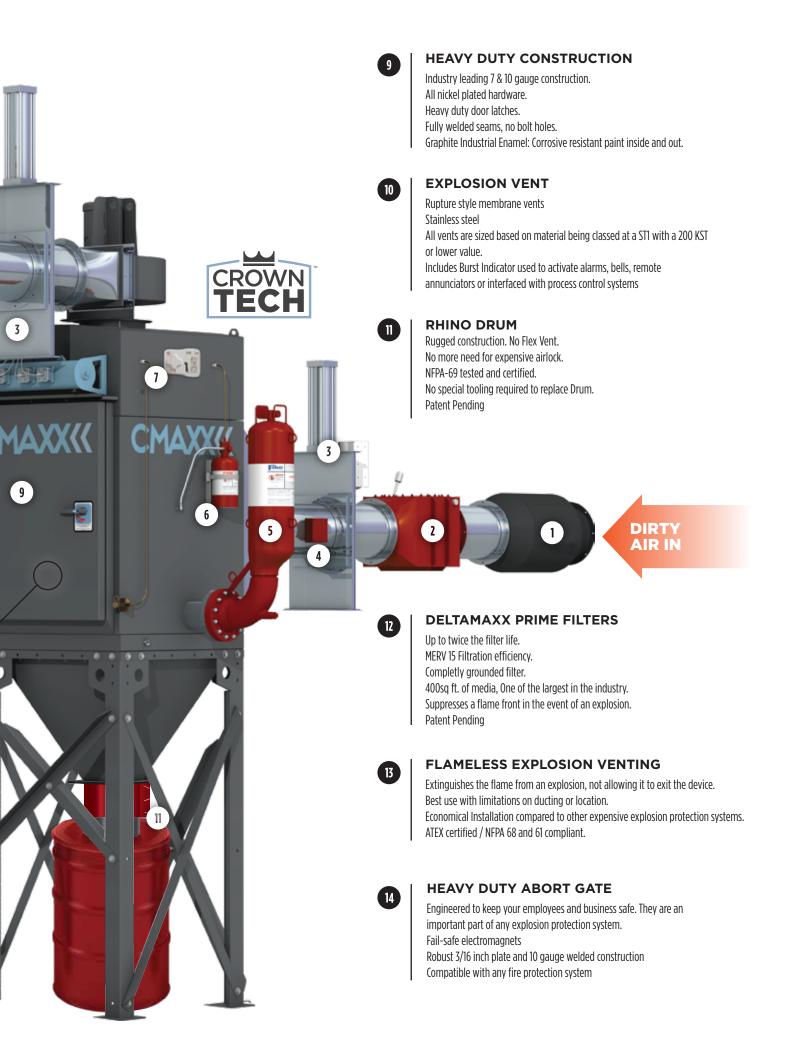
R CHEMICAL EXPLOSION ISOLATION

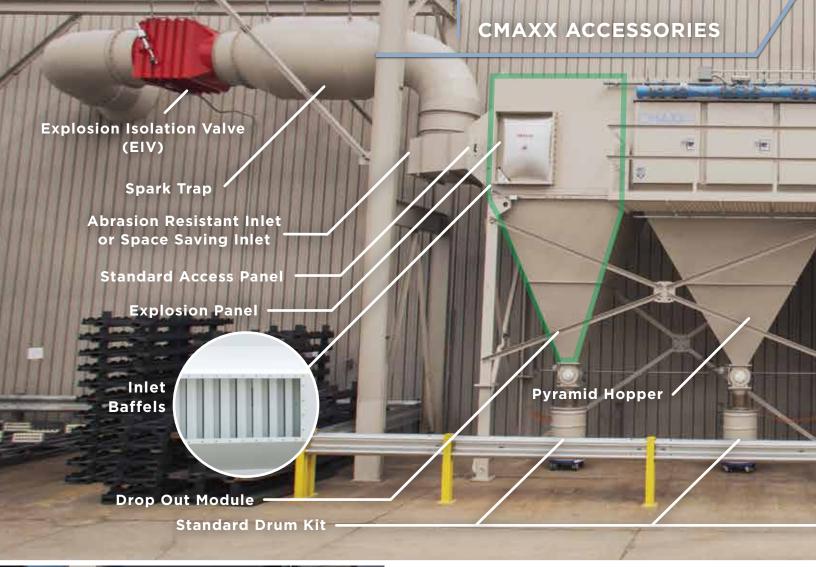
Rapid discharge of a chemical explosion suppressant to prevent the flame from continuing through to other areas of your system. Inlet and outlet application.

Used when venting is not an option.

For applications up to 400 Kst







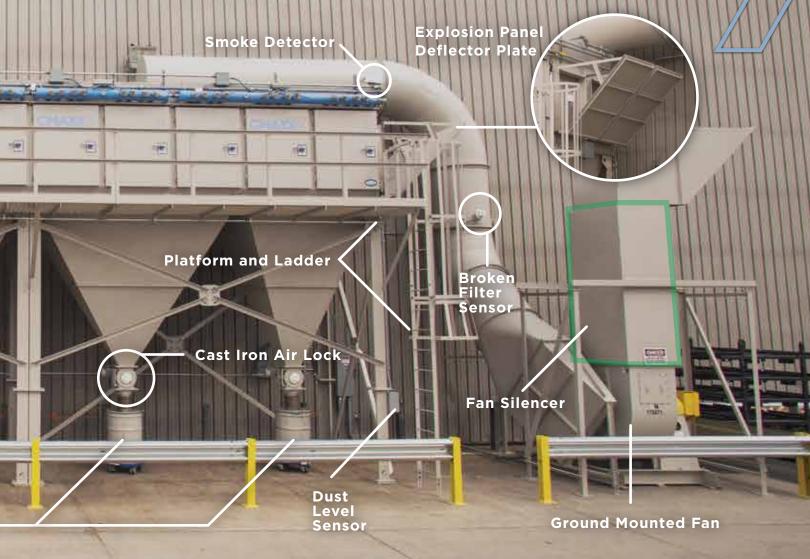




- Explosion Tested to 7psi
- Meets Standards for NFPA 69/654
- Bonded to a Grounded Collector
- No Moving Parts
- No Flex Hose
- Tool Free

Eliminates need for Airlock - Half the Cost

No need for wiring/ maintenance/ motor/ starter/ wipers/ chains



DUST LEVEL SENSOR

- Easy install and setup
- Low voltage
- Ideal for hard to check containers
- Prevent container overflow
- Less need to open containers
- Eliminates risk of dust backing up
- Half the cost of competing sensors

The dust level sensor makes it safe and convenient to monitor dust collection containers. The sensor uses a signal to detect the level of dust inside the container.











MOST ADVANCED CARTRIDGE FILTER



Ensures filters are installed properly



UNIQUE PAN SHAPE

Prevents filter ramping for safety



DOUBLE GASKET

Double layer of protection to ensure a good seal with a single piece design



Filters are grounded to the dust collector

400sg. ft. OF MEDIA -

More media than leading filter competitors

OVAL DESIGN

Oval design maximizes surface area

The DeltaMAXX Prime cartridge filter is available exclusively for Imperial Systems dust collection units. This patent pending design offers a new level of safety and performance. Our Nanofiber material already sets the standard for high efficiency filtration and long filter life.



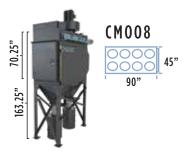
Filter Area (sq. ft.) - 800 Nominal CFM Range - 350-3600 Weight (lbs.) - 1600



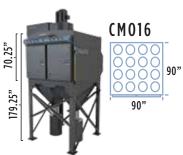
Filter Area (sq. ft.) - 1600 Nominal CFM Range - 700-7200 Weight (lbs.) - 2000



Filter Area (sq. ft.) - 2400 Nominal CFM Range - 1050-10800 Weight (lbs.) - 2700



Filter Area (sq. ft.) - 3200 Nominal CFM Range - 1400-14400 Weight (lbs.) - 3150



Filter Area (sq. ft.) - 6400 Nominal CFM Range - 2800-28800 Weight (lbs.) - 5250



Filter Area (sq. ft.) - 8000 Nominal CFM Range - 3500-36000 Weight (lbs.) - 6050

CM020

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90"

112.5"



Filter Area (sq. ft.) - 9600 Nominal CFM Range - 4200-43200 Weight (lbs.) - 7200



Filter Area (sq. ft.) - 19200 Nominal CFM Range - 8400-86400 Weight (lbs.) - 13000



Filter Area (sq. ft.) - 22400 Nominal CFM Range - 9800-100800 Weight (lbs.) - 16900



315"

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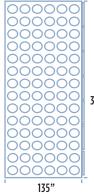
90"



Filter Area (sq. ft.) - 24000 Nominal CFM Range - 10500-108000 Weight (lbs.) - 18100

CM084 Filter Area (sq. ft.) - 33600

Nominal CFM Range - 14700-151200 Weight (lbs.) - 25200

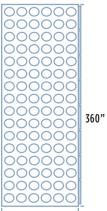


180"

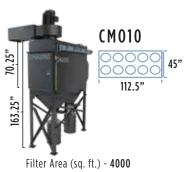
135"

CM096 Filter Area (sq. ft.) - 38400

Nominal CFM Range - 16800-172800 Weight (lbs.) - 28800



135"



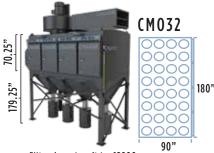
Nominal CFM Range - 1750-18000 Weight (lbs.) - 3600



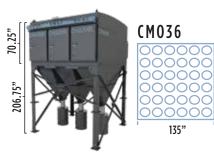
Filter Area (sq. ft.) - 4800 Nominal CFM Range - 2100-21600 Weight (lbs.) - 4500



Filter Area (sq. ft.) - 4800 Nominal CFM Range - 2100-21600 Weight (lbs.) - 4260



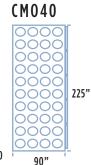
Filter Area (sq. ft.) - 12800 Nominal CFM Range - 5600-57600 Weight (lbs.) - 10000



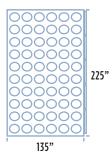
Filter Area (sg. ft.) - 14400 Nominal CFM Range - 6300-64800 Weight (lbs.) - 10900



Filter Area (sq. ft.) - 16000 Nominal CFM Range - 7000-72000 Weight (lbs.) - 12000

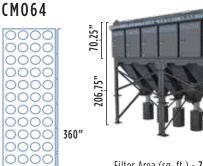


CM060





Filter Area (sq. ft.) - 25600 Nominal CFM Range - 11200-115200 Weight (lbs.) - 19200



135"

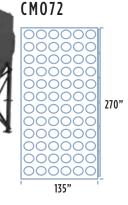
135"

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Filter Area (sq. ft.) - 28800 Nominal CFM Range - 12600-129600 Weight (lbs.) - 21600

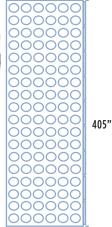


CM108



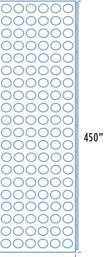
Nominal CFM Range - 18900-194400

Weight (lbs.) - 32400



135"





135"



Breathe Better, Work Safer

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