



# SAFELY REMOVE TOXIC AND COMBUSTIBLE DUSTS FROM YOUR FACTORY OR WORKSHOP

The Gold Series X-Flo (GSX) dust collector is the industry's best-in-class dust collection system. It's built on 20 years of successful performance of our award-winning Gold Series® system. It handles all kinds of toxic and combustible dusts and fumes, including fine, fibrous and heavy dust loads.

GSX dust collectors effectively process dust while maintaining a low pressure drop. You get the maximum airflow and dust processing power for any given footprint. GSX collectors use crossflow technology and a unique baffle configuration to create a uniform airflow that extends the life of your filters. Filter cartridges last longer and require fewer replacements, reducing the total cost of ownership.

- ✓ Modular construction – easy to build and assemble in limitless sizes and configurations
- ✓ Tested to meet ATEX & NFPA standards
- ✓ Available with numerous explosion protection options
- ✓ Configurable to meet the strictest requirements for factory air quality
- ✓ Less pulsing of filter cartridges is necessary, so the filters last longer and require less changeouts
- ✓ Smaller footprints are possible because each unit handles more airflow
- ✓ Ships in as few pieces as possible for fast delivery
- ✓ Easy installation, operation and maintenance
- ✓ Built on 20 years of reliable field dust collection performance



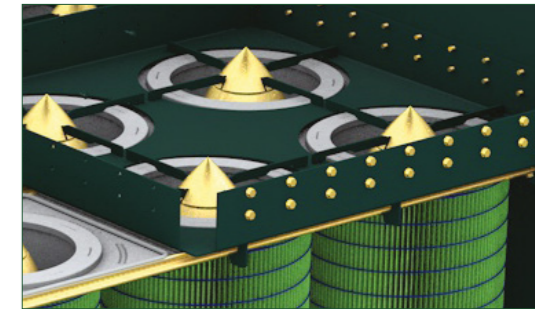
## MORE FILTER MEDIA, SAME FOOTPRINT

We designed the inlet, filter cartridges and filter position so each housing module can accommodate larger cartridges without increasing the overall footprint.

Each module holds four cartridges of HemiPleat® filter media and can handle airflows up to 10,000 m<sup>3</sup>/h while maintaining a low pressure drop.



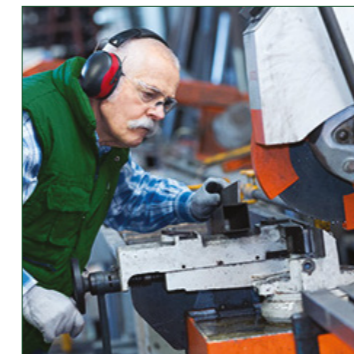
Customizable configurations

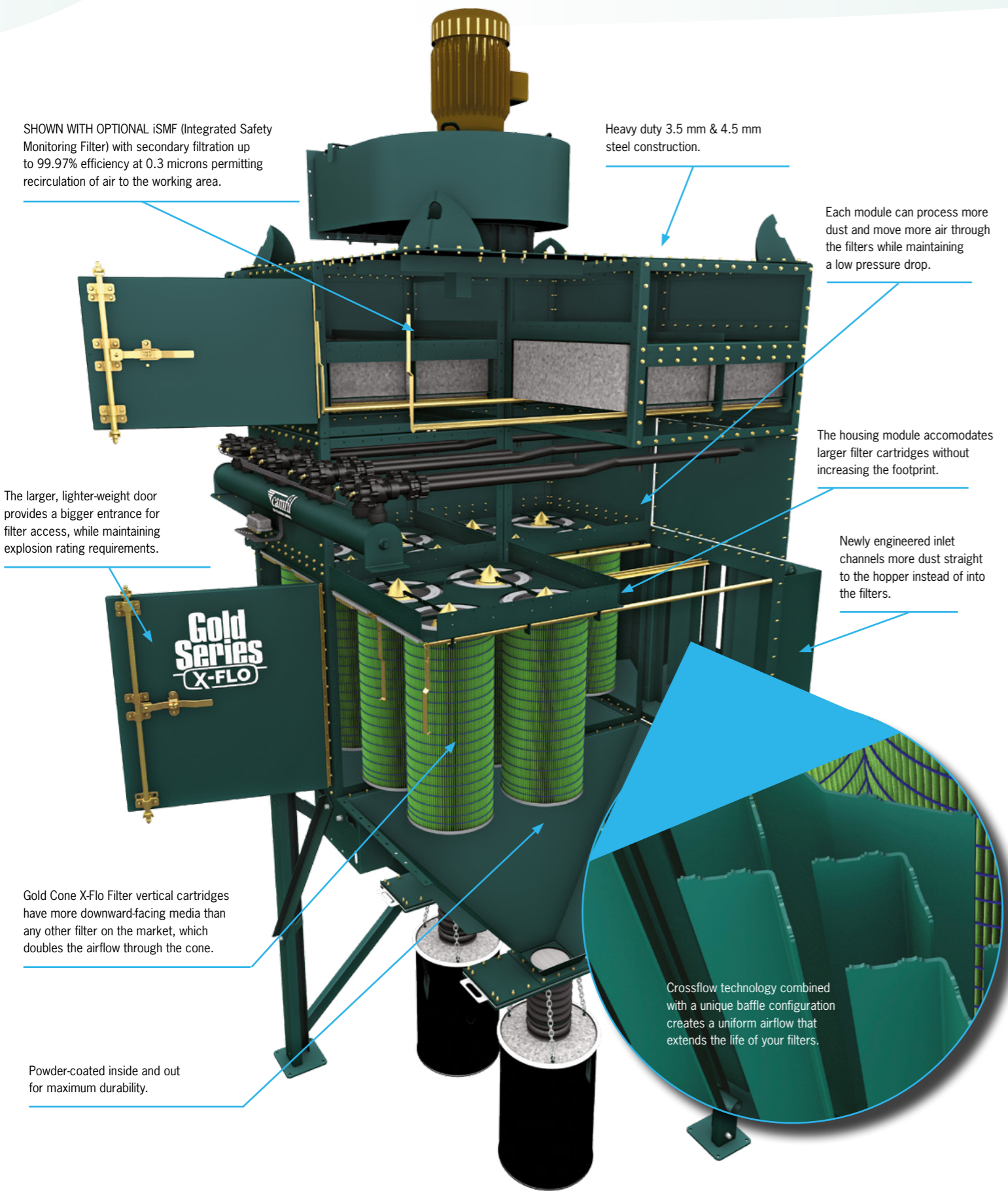


Four filters per module

## SOLVES DUST AND FUME PROBLEMS ACROSS MANY INDUSTRIES AND APPLICATIONS

GSX dust collectors are ideal for most industrial applications that produce or process fine, fibrous and heavy dusts and fumes. Industries that benefit the most include pharmaceutical, mining, food processing, chemical processing, and metalworking applications like welding, thermal spray, plasma cutting, laser cutting, and abrasive blasting.





SHOWN WITH OPTIONAL iSMF (Integrated Safety Monitoring Filter) with secondary filtration up to 99.97% efficiency at 0.3 microns permitting recirculation of air to the working area.

Heavy duty 3.5 mm & 4.5 mm steel construction.

Each module can process more dust and move more air through the filters while maintaining a low pressure drop.

The housing module accommodates larger filter cartridges without increasing the footprint.

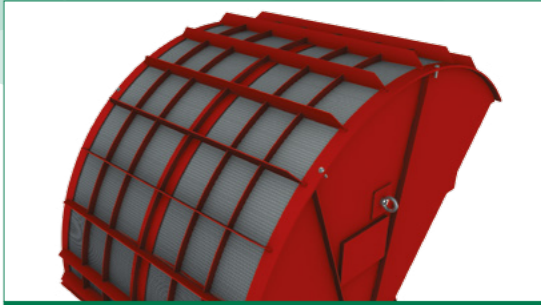
Newly engineered inlet channels more dust straight to the hopper instead of into the filters.

The larger, lighter-weight door provides a bigger entrance for filter access, while maintaining explosion rating requirements.

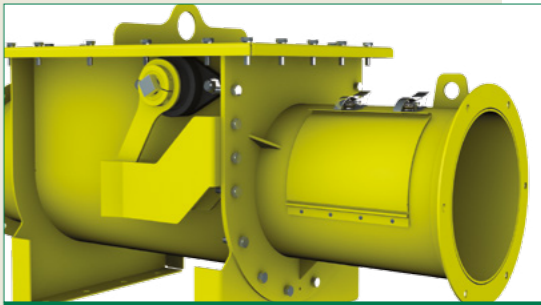
Gold Cone X-Flo Filter vertical cartridges have more downward-facing media than any other filter on the market, which doubles the airflow through the cone.

Powder-coated inside and out for maximum durability.

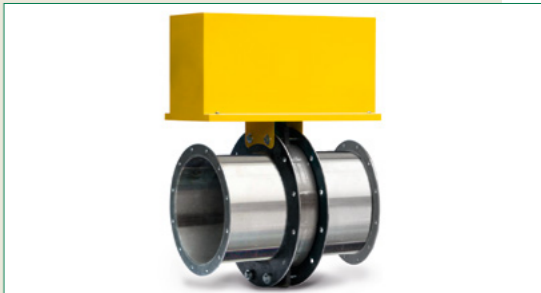
Crossflow technology combined with a unique baffle configuration creates a uniform airflow that extends the life of your filters.



Flameless Vent



Stinger Valve



Fast Acting Valve



Deflagration Venting



Integrated Safety Monitoring Filter

Combustible dust explosions are a serious risk at many manufacturing, processing and metalworking plants. An unprotected dust collection system can be a main cause. Gold Series X-Flo dust collectors help mitigate these risks because they are configured to your unique situation.

**SAFE AND COMPLIANT**

GSX dust collectors are tested to meet ATE X & NFPA standards and available with many explosion & fire protection options including explosion vents, passive or active isolation valves, chemical isolation systems, integrated safety, integrated safety monitoring filters, and fire-retardant filter cartridges selected to best suit each application. Camfil APC offers dust testing services and a fully equipped test lab that provides bench dust testing and ASHRAE Standard 199 testing.



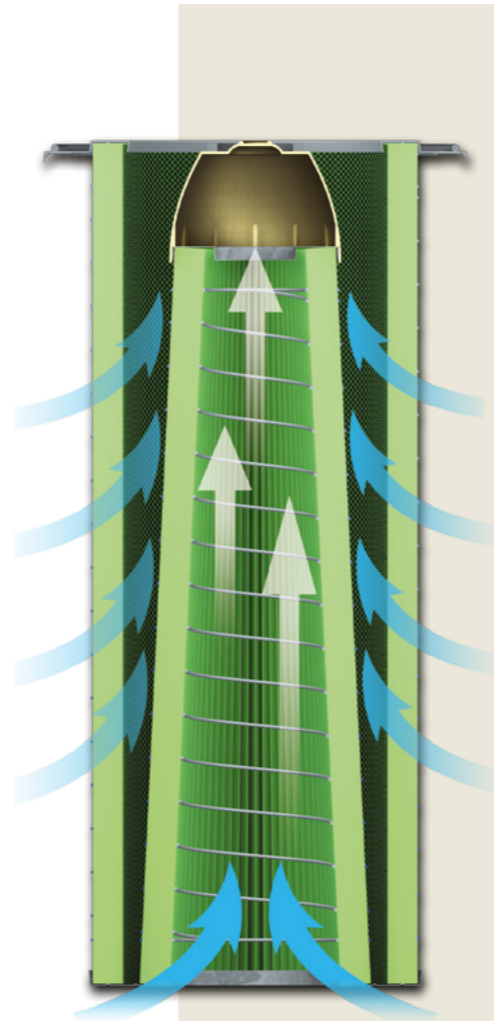
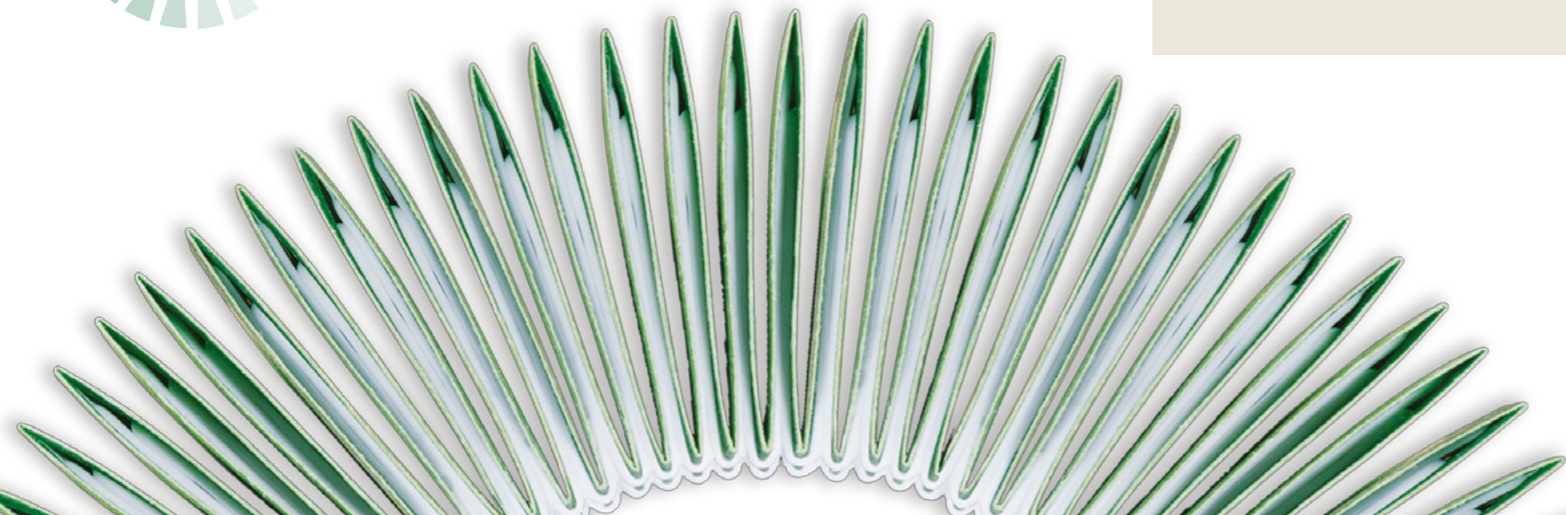
# THE POWER OF GOLD CONE™ X-FLO FILTERS

Gold Cone X-Flo (GCX) filter cartridges are the most advanced dust collector filters ever made. They feature proprietary HemiPleat® Gold Cone™ filters that stay cleaner and last longer than conventional pleated filters.

Each GCX filter contains 34.8 square metres of media, offering the industry's highest effective air-to-cloth ratio. This means fewer filters are required for a given application. GCX filters were designed specifically for the Gold Series X-Flo dust collector. Used together, you get the most powerful and cost-efficient dust collection system on the market. The innovative system maximizes airflow while minimizing filter changeouts, compressed air usage, pressure drop and energy costs.

## HEMIPEAT® TECHNOLOGY

HemiPleat technology is our unique method of creating highly efficient pleated filter media. Synthetic beads hold the pleats open and evenly spaced. Open uniform pleats expose more media to the airstream so that more dust is loaded on the filter and then released when pulse-cleaned. HemiPleat filters are far more efficient than standard filters.



Air flows up through the open bottom of the filter cartridge.

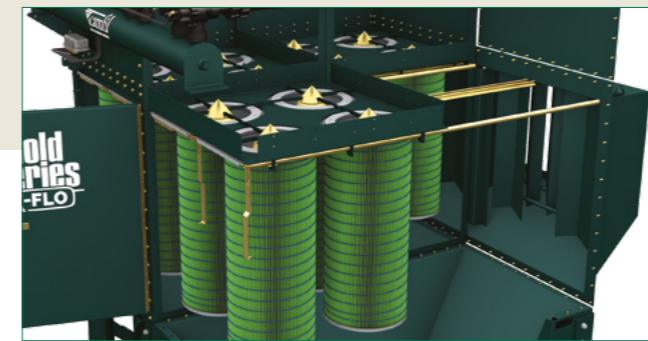
## GOLD CONE™ TECHNOLOGY

GCX cartridges feature our proprietary Gold Cone inner pleat pack. This open-bottomed, inner cone of media greatly expands the usable surface area of cartridges. They stay cleaner and last longer than conventional pleated filters.

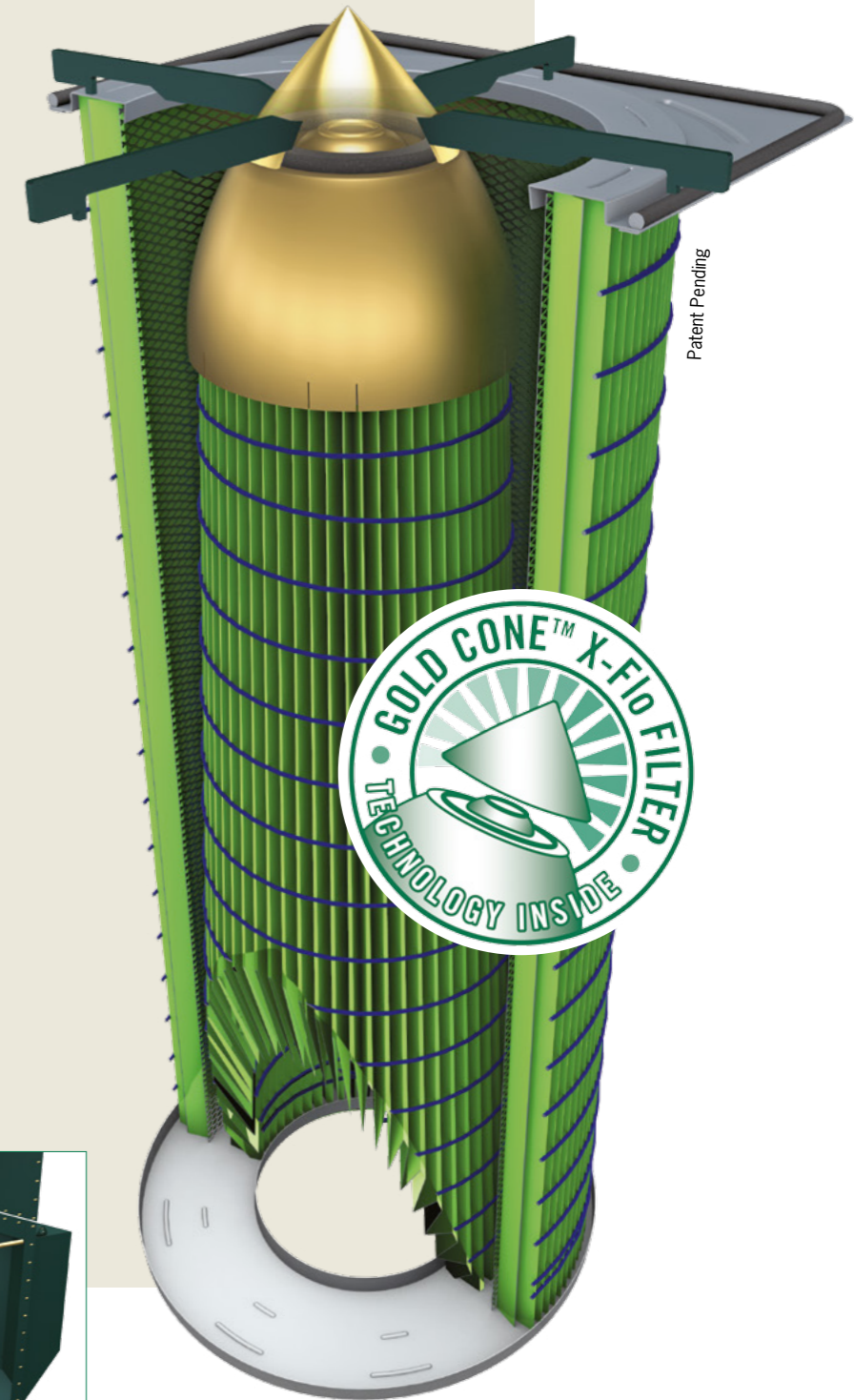
The inner cone is configured so that pulsed air is evenly distributed top to bottom along the outer pack of the filter and down through the inner cone pack. With each pulse, the X-Flo filter cartridge ejects more dust out of the collector than any other filter and helps maintain a low pressure drop.

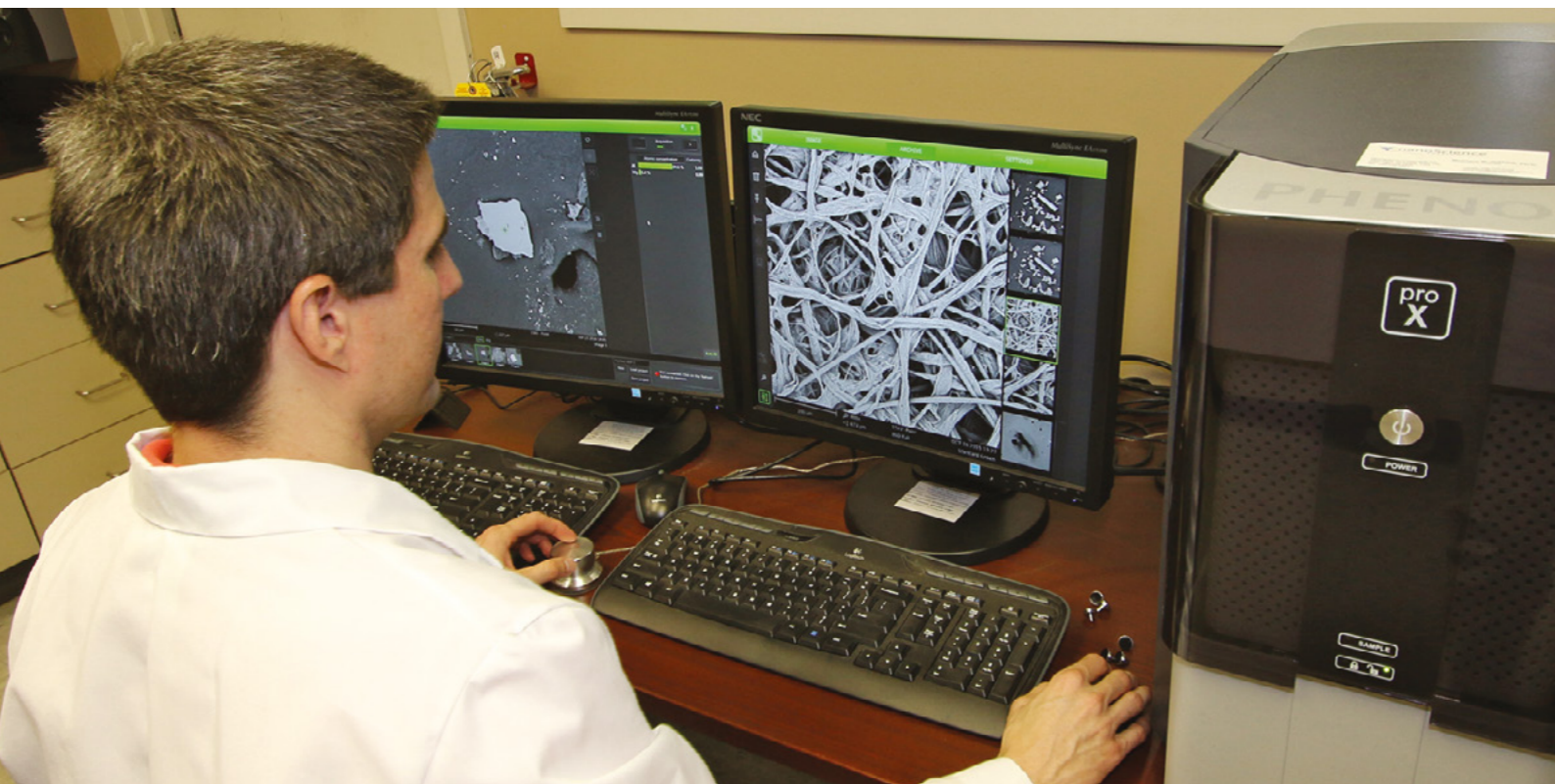
## MORE DOWNWARD-FACING MEDIA

GCX filter cartridges are engineered to put dust in its place – into the collection bin where it belongs. GCX filters, and their unique location in the collector, position more downward-facing media than any other system. 40% of each HemiPleat filter cartridge is focused on discharging collected dust straight down to the hopper. This offers a huge advantage over horizontal-style filters that pulse 90% of the dust back onto adjacent filters and only 10% into the hopper.



Filter cartridge placed in X-Flo Dust Collector





Scanning Electron Microscope Analysis

## CAMFIL CARES

Camfil APC's industry-leading support services are branded "Camfil Cares" to encompass all we do to assess customer needs and recommend the most cost-effective equipment that complies with industry standards.

Services include:

- ✓ Site visits
- ✓ Prompt response to inquiries
- ✓ Providing specifications to guide the budget and bid process
- ✓ Engineering, configuration and sizing of collectors to specific applications
- ✓ Dust testing for filtration properties and combustibility to EN ISO/IEC 80079-20-2
- ✓ ASHRAE 199 testing
- ✓ Expertise with ATEX, CE and NFPA regulations and standards
- ✓ ATEX compliance training
- ✓ Maintenance training



ASHRAE Standard 199 Dust Test Apparatus



GSX collectors are engineered and sized for your specific application

## GOLD SERIES X-FLO CONTROLS

### AUTOMATIC FILTER CLEANING AND ENERGY SAVING CONTROLS

#### CDC CONTROLLER

The CDC automatic filter controller offers basic functionality to serve as the centre point for the dust collection system. It controls the automatic pulse cleaning based on the differential pressure of the filters. It only pulses when the filters are dirty, saving compressed air. It will connect with remote systems, receiving start and stop signals, provides a fan start signal and alarm outputs.



#### ACDC /ACDC2 CONTROLLER

The ACDC Camfil APC Advanced Control system is designed to function as the intelligent centre point of the dust collection installation. The Advanced panel LCD screen provides valuable information to the health of your dust collection system. The controller has multiple inputs and outputs to control fan, dust discharge system's and take inputs from monitoring sensors/system's such as level probes, explosion alarms and temperature monitoring switches. This allows the ACDC to run even complicated dust collection. Like the CDC it controls the automatic pulse cleaning based on the differential pressure of the filters, only pulsing when the filters are dirty, saving compressed air. The ACDC2 panel includes additional functionality for monitoring of secondary filters, with options for integrated control of active explosion isolation or suppression systems. The ACDC & ACDC2 are ATEX approved for use in Zone 22 areas.



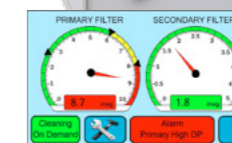
#### INTEGRATED TOUCHSCREEN & FAN CONTROLLER

The integrated controller provides similar system control to the ACDC, with a user friendly touchscreen interface. The Variable Speed Drive (VSD) option provides complete control of the fan during and after start-up. It has all the necessary functions for a controlled start without the high current loads typically associated with fans. It also provides the ability to control the speed of the fan, which provides energy savings and improved process functionality.



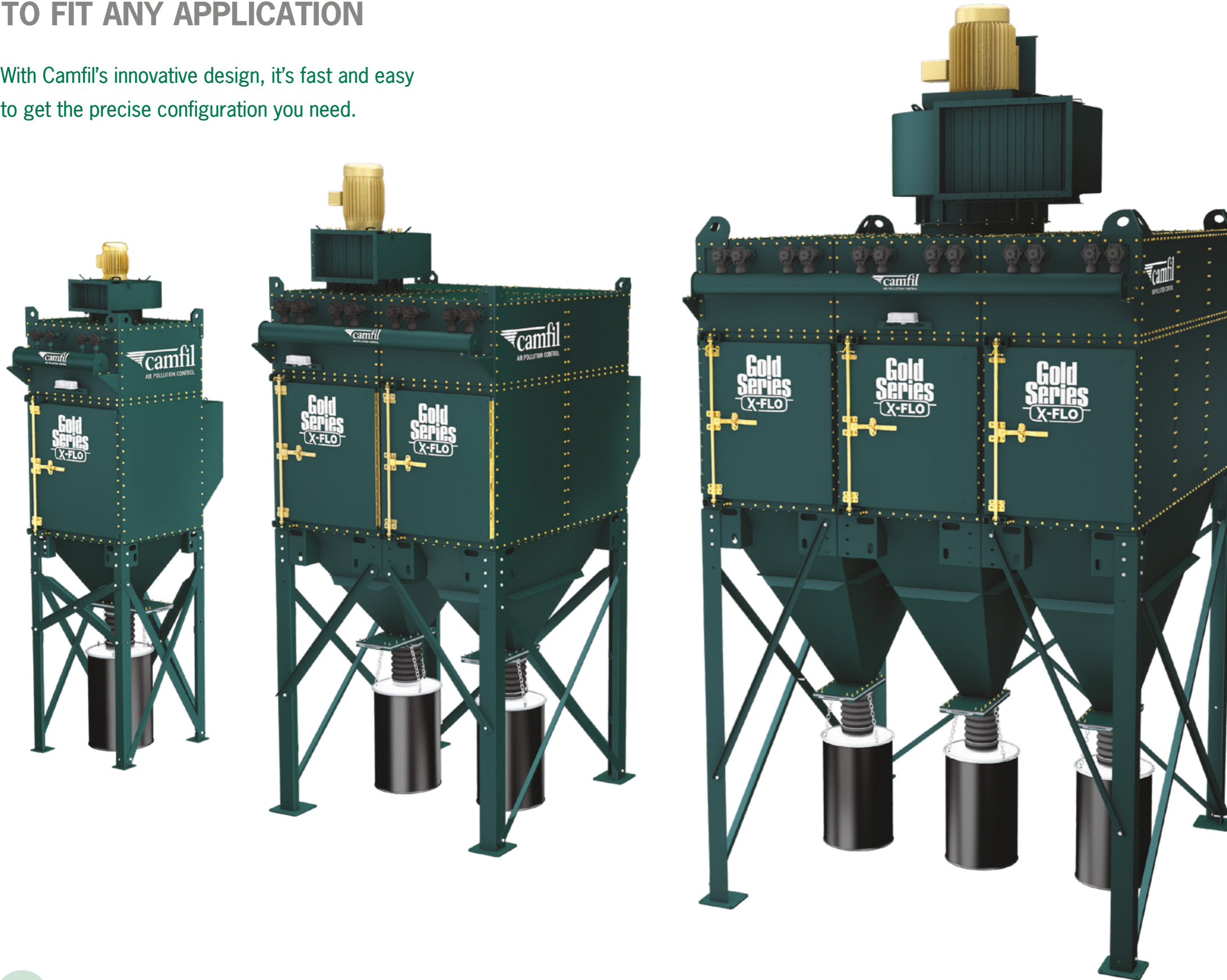
#### SMART SOLENOID TIMER CONTROLLER

Basic timer controls for pulsing the solenoid valves, integrated in the valve housing. The on and off time of the solenoids is easily adjusted through dials integrated into the solenoid tray. If this option is selected with a Gold Series X-Flo dust collector you will also get a Magnahelic gauge to visually monitor the pressure drop across the filters.



## MODULAR CONSTRUCTION TO FIT ANY APPLICATION

With Camfil's innovative design, it's fast and easy to get the precise configuration you need.



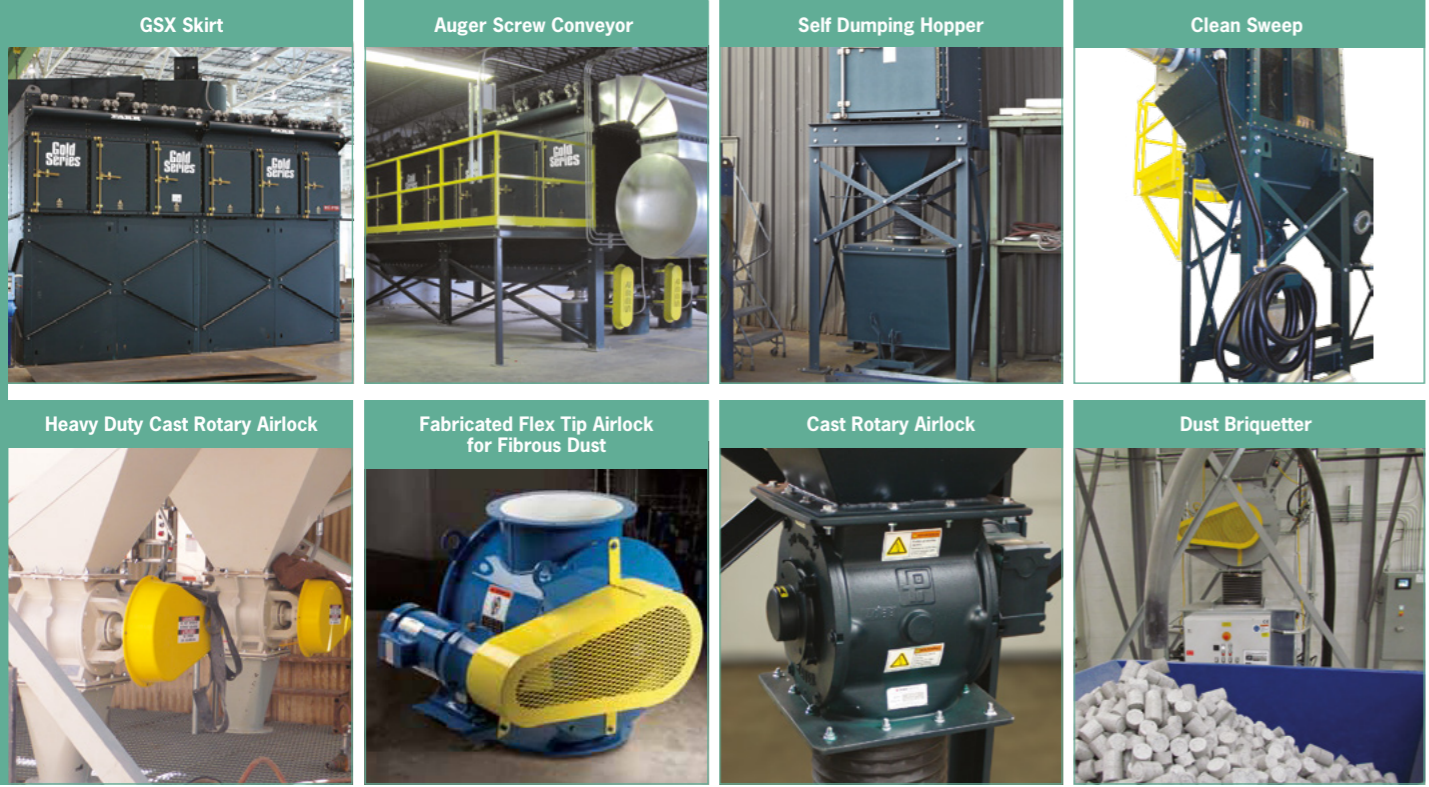
The modular design makes GSX collectors easy to build and assemble in limitless sizes and configurations. The modular design enables fast delivery of a system that is just right for your application and your space.



# Gold Series X-FLO

## OPTIONS

Hopper Discharge Options



Ducting Designs



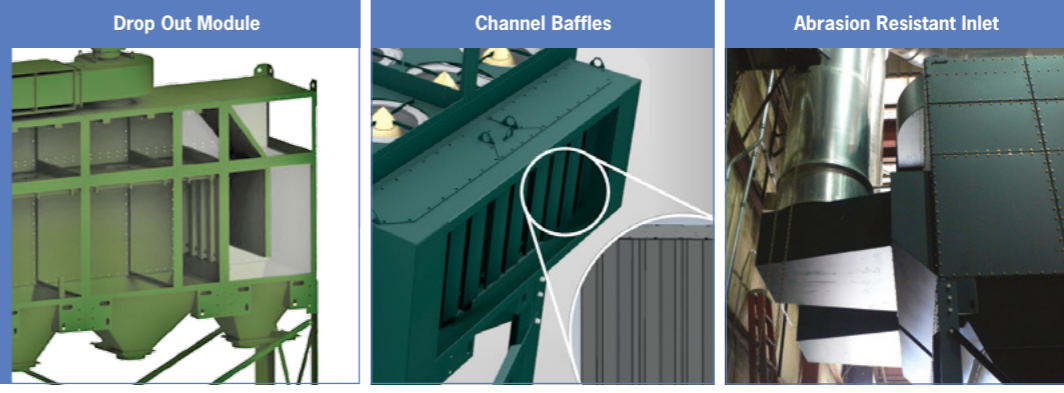
Fans











Extended Options

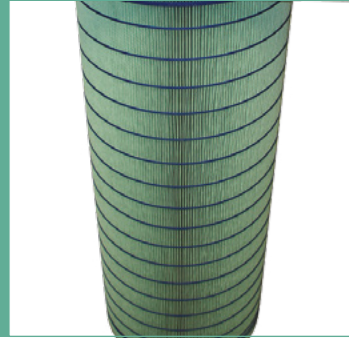

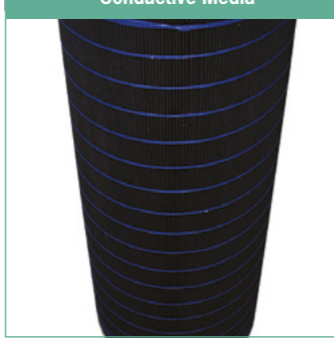



Inlet Options













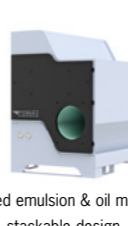



<b>Bag-In Bag-Out (BIBO)</b>	<b>Butterfly Valve</b>	<b>Continuous Liner Discharge</b>	<b>BIBO Safety Monitoring Filter Housing</b>
			

<b>Top Hand Rails</b>	<b>UHMW Mining Inlet Baffle</b>	<b>Slurry Tank for Conveying Dust</b>	<b>Copper Tubing and Diaphragm Maintenance Valve</b>
			

<b>Green Moisture Resistant Media</b>	<b>Fire Retardant Media</b>	<b>Carbon Static Electricity Conductive Media</b>	<b>Synthetic Washable Media</b>
			


























<b>Integrated Safety Monitoring Filter</b>	<b>Sprinklers</b>	<b>Deflagration Vent</b>	<b>Deflagration Vent With Blast Plate</b>
			
<b>Vertical Deflagration Vent</b>	<b>Flameless Deflagration Vent</b>	<b>Stinger Backdraft Damper</b>	<b>Chemical Suppression System</b>
			

## EXHAUST-AIR CLEANING SOLUTIONS – OVERVIEW:

<b>Gold Series</b>  <ul style="list-style-type: none"> <li>Modular design for flexibility</li> <li>Heavy duty construction</li> <li>Gold Cone® HemiPleat® filters</li> <li>Component configurations are virtually unlimited</li> </ul>	<b>Gold Series Camtain</b>  <ul style="list-style-type: none"> <li>Pharmaceutical and hazardous dust applications</li> <li>Bag In Bag Out (BIBO) safe change containment systems</li> <li>Independently surrogate tested for containment performance</li> </ul>	<b>Gold Series High Vacuum</b>  <ul style="list-style-type: none"> <li>Vessel strength: 17 in Hg vacuum, 8 PSI positive pressure</li> <li>2 and 4-cartridge models</li> <li>Use as central vacuum system, positive or negative product receiver or high pressure bin vent</li> </ul>	<b>Quad Pulse Package</b>  <ul style="list-style-type: none"> <li>Suited for continuous processes</li> <li>Bag-in/Bag out on filters and discharge</li> <li>Explosion shock resistant design</li> <li>Duty up to 3,000 m³/h</li> <li>Compact design</li> </ul>
<b>Quantum Series</b>  <ul style="list-style-type: none"> <li>For metal processing applications</li> <li>Integrated spark arrester &amp; fan</li> <li>Easy installation and commissioning</li> <li>Newest pulse cleaning technology</li> <li>Minimum footprint</li> </ul>	<b>Zephyr III</b>  <ul style="list-style-type: none"> <li>Portable dust collector</li> <li>Three stage filtration</li> <li>Heavy duty 3 mtr fume arm is obstruction free inside</li> <li>Easy, 360° hood positioning</li> <li>1,200 m³/h at the capture hood</li> </ul>	<b>Oil Expert</b>  <ul style="list-style-type: none"> <li>Machine tool oil mist separation &amp; filtration</li> <li>99,95% collection efficiency</li> <li>Modular design</li> <li>Easy maintenance</li> <li>Plug &amp; play</li> </ul>	<b>EM Expert</b>  <ul style="list-style-type: none"> <li>Coolant mist collector for ultra-fine mists &amp; fumes</li> <li>Efficient multi-stage filtration</li> <li>Self-cleaning filtration media</li> <li>Long filter life</li> <li>Flexible &amp; modular design</li> </ul>
<b>EM Profi</b>  <ul style="list-style-type: none"> <li>Emulsion &amp; coolant mist separation for machining environments</li> <li>Collection efficiency up to 99,95%</li> <li>Self-regenerating filter stages</li> <li>Automatic sprayer system</li> <li>Easy maintenance</li> </ul>	<b>EM-O Compact</b>  <ul style="list-style-type: none"> <li>Suitable for oil &amp; synthetic coolant applications</li> <li>Simple and flexible integration into machine tools</li> <li>Compact construction</li> <li>Plug &amp; play</li> </ul>	<b>EM-O Flex</b>  <ul style="list-style-type: none"> <li>Combined emulsion &amp; oil mist separator</li> <li>Modular, stackable design</li> <li>Optimized filter media</li> <li>Low energy consumption</li> </ul>	
<b>Vortex</b>  <ul style="list-style-type: none"> <li>Specialist wet scrubber for polishing &amp; light metal chip applications</li> <li>No filter elements</li> <li>Low maintenance</li> </ul>	<b>Vortex Dual</b>  <ul style="list-style-type: none"> <li>Wet scrubber suited to low dust loadings and where a small footprint is required</li> <li>Unique disintegrator principle</li> <li>No filter elements</li> <li>Low maintenance</li> </ul>	<b>Venturi</b>  <ul style="list-style-type: none"> <li>Wet scrubber for demanding applications with high dust loadings</li> <li>Separation efficiency adjustable on grain size distribution and particles density</li> <li>No fan power limitation</li> <li>Easy maintenance</li> </ul>	



# MODEL OVERVIEW

Height: 3,956 mm	 <b>GSX2</b> 726 kg 1,067 x 1,159 mm (W x D)	 <b>GSX4</b> 794 kg 1,067 x 1,692 mm (W x D)	 <b>GSX6</b> 1,043 kg 1,067 x 2,226 mm (W x D)	 <b>GSX8</b> 1,254 kg 1,372 x 2,604 mm (W x D)	 <b>GSX10</b> 1,415 kg 1,372 x 3,213 mm (W x D)	 <b>GSX12L</b> 1,633 kg 1,372 x 3,670 mm (W x D)	 <b>GSX16L</b> 2,200 kg 4,267 x 1,692 mm (W x D)	 <b>GSX12S</b> 1,701 kg 2,134 x 2,226 mm (W x D)	 <b>GSX18</b> 2,926 kg 3,200 x 2,226 mm (W x D)
Height: 4,363 mm	 <b>GSX16S</b> 2,155 kg 2,283 x 2,759 mm (W x D)	 <b>GSX20</b> 2,722 kg 2,283 x 3,293 mm (W x D)	 <b>GSX24</b> 2,835 kg 2,283 x 3,826 mm (W x D)	 <b>GSX32</b> 3,833 kg 4,267 x 2,759 mm (W x D)					
Height: 4,363 mm	 <b>GSX40</b> 4,627 kg 5,334 x 2,759 mm (W x D)	 <b>GSX48L</b> 6,690 kg 6,401 x 2,759 mm (W x D)	 <b>GSX56</b> 7,847 kg 7,468 x 2,759 mm (W x D)	 <b>GSX64</b> 9,004 kg 8,534 x 2,759 mm (W x D)					
Height: 4,972 mm	 <b>GSX36</b> 4,354 kg 3,200 x 3,874 mm (W x D)	 <b>GSX48</b> 5,625 kg 4,267 x 3,874 mm (W x D)	 <b>GSX60</b> 6,055 kg 5,334 x 3,874 mm (W x D)	 <b>GSX72</b> 8,528 kg 6,401 x 3,874 mm (W x D)	 <b>GSX84</b> 9,730 kg 7,468 x 3,874 mm (W x D)				
Height: 4,972 mm	 <b>GSX96</b> 11,000 kg 8,534 x 3,826 mm (W x D)	 <b>GSX108</b> 12,247 kg 9,601 x 3,826 mm (W x D)	 <b>GSX120</b> 13,449 kg 10,668 x 3,826 mm (W x D)						