camfil
AIR POLLUTION CONTROL

GOLD SERIES

DUST AND FUME COLLECTOR



The modular and powerful dust collector - solves every requirement reliably!

camfilapc.com

SPEED
SAFETY
SERVICE
WOW

MISSION STATEMENT

WHAT WE DO:

We will clean clean dust, mist and fumes from factories, making them safer and more productive.

HOW WE DO IT:

We will ship collectors fast while still giving the customer what they want.

We will be the most customer and rep friendly company in the air pollution control business.

We will make the best dust, mist and fume collectors in the business from an end user operation and maintenance viewpoint.

camfilcairing

LEAN • GREEN • MANUFACTURING

CLEANING UP THE WORKPLACE, FOR TODAY... AND TOMORROW

Saving energy and increasing production efficiency while controlling indoor air quality is a challenging aspect of plant management. Dust collectors – whether used for pollution control or product recovery – can impact all these areas. Camfil Air Pollution Control (APC) can help solve your dust problems.

THE DRY FILTER GOLD SERIES

Thanks to the best performance features and exceptional ease of installation and maintenance, the Gold Series is the first choice for a clean workplace!

EFFICIENT. MODULAR. SOLID.
BENEFITS OF THE GOLD SERIES:

- Modular design dust collector provides optimum field flexibility and short manufacturing lead time - have it your way fast!
- Heavy duty carbon steel construction for long life - Dust collector module constructed of 7 gauge carbon steel. Door, hopper, inlet and panels are all 10 gauge steel. Baked on, durable green powder coat paint - All carbon steel components are 5-stage acid washed prior to powder coating for maximum paint adhesion. Dust collector is painted inside and outside for unsurpassed weather and corrosion resistance.
- High entry cross flow inlet eliminates upward can velocities associated with traditional hopper inlets in industrial dust collectors. The channel baffles installed in the inlet protect the filters from incoming dust and separate the larger particles directly into the hopper, reducing the load on the filters.
- The Gold Series dust collector utilizes Gold Cone® cartridge technology to deliver clean air and long life while utilizing the smallest floor space of any dust collector available today. Multiple filter media and pleat spacing options are available to best suit your specific application and dust.



The Gold Series product line – high flexibility in size and application, e.g. available as high vacuum & camtain version.

CHALLENGE DUST...
TYPICAL APPLICATIONS:

- Abrasive Blasting
- Grinding
- Plasma/Laser Cutting
- Foundry
- Shot Peening
- Thermal Spray
- Welding Smoke/Fume
- Chemical Processing
- Food Processing
- Mining
- Pharmaceutical
- Powder/Bulk Materials
- Powder Painting/Pigments
- Fiberglass/Composites
- Paper Scrap Systems
- Seed Processing
- Wood Processing



Indoor flameless deflagration venting



Ship abrasive blasting



Application Thermal Spray



Weld smoke ventilation





Application with Pharmaceutical dust



...THE PROOF IS IN DOING IT!
APPLICATION EXAMPLES



Paper dust



Ore crusher at major copper mine



Pharma Unit with BiBo-System



Wood dust



Bronze foundry



System with HEPA and vertical deflagration venting

GOLD SERIES: OFFERS MODULAR DESIGN, FOR OPTIMUM FLEXIBILITY – DELIVERED FAST!



"WE ARE VERY HAPPY WITH THE CAMFIL APC DUST COLLECTOR. THE DUST COLLECTION SOLUTION WAS PURCHASED FOR OUR CNC PLASMA CUTTER TO REPLACE A [COMPETITOR] CARTRIDGE DUST COLLECTOR DUE TO SHORT FILTER LIFE. THE CURRENT FILTERS HAVE BEEN IN FOR OVER A YEAR AND STILL LOOK GREAT AND ARE OPERATING ON LESS THAN 3" PRESSURE DROP. ALSO, THE CAMFIL APC PEOPLE HAVE BEEN A PLEASURE TO DO BUSINESS WITH."

- DAN SCHULER, SCHULER MANUFACTURING



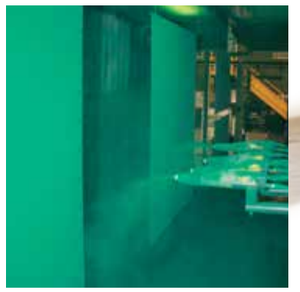
High Entry Inlet
Cross flow is created through the filters. This eliminates upward "can" velocities associated with traditional hopper inlets.



Powerful Cleaning System to Provide Long Filter Life



Pulse Discharge of Gold Cone® Filter



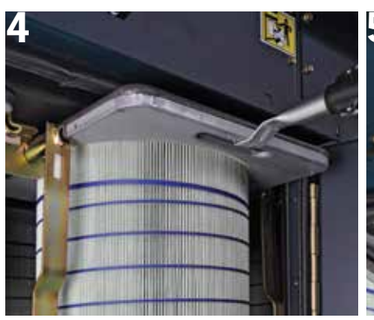
Gold Series components are individually powder coated prior to assembly for superior corrosion resistance.

Easy Filter Change-out











GOLD SERIES FEATURES:

- Modular design for optimum flexibility – have it your way fast!
- Each module accommodates airflows up to 5,000 cfm
- Module constructed of 7 gauge carbon steel
- Door, hopper, inlet and panels are all 10 gauge steel
- Powder painted for unsurpassed corrosion resistance
- Component configurations are virtually unlimited
- Vertical design of cartridges enables efficient pulse cleaning of high-loading dust



THE HEART OF THE GOLD SERIES

HEMIPLEAT®
SAVING YOU MONEY

THE MOST ADVANCED DUST COLLECTOR FILTER EVER MADE

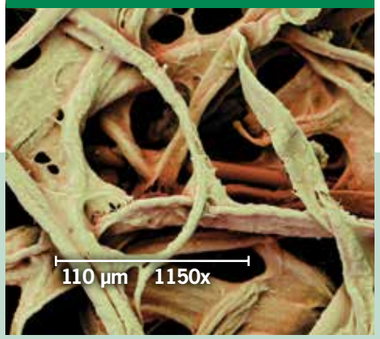
- Poly-Tech™ media's filtration efficiency is 99.99% on 0.5 µm and larger particles.
- The Gold Series meets the 5 mg/m³ or less emissions requirement to recirculate air back on non-hazardous dusts, in most cases.
- The HemiPleat cartridge uses optimal pleat spacing with synthetic glue beads to hold the pleats open. HemiPleat breathes more air with less energy and increases the cleaning effectiveness of the reverse pulse, thus resulting in a lower pressure drop.

HemiPleat „Green" – proprietary blend of cellulose and polyester fibers with a moisture resistant silicone treatment
HemiPleat „Flame Retardant" – proprietary blend of cellulose and polyester fibers with a flame retardant treatment
HemiPleat „Carbon Impregnated" – proprietary blend of cellulose and polyester fibers impregnated with carbon for static dissipation
HemiPleat „Synthetic" – 100% synthetic filter media for washability and moisture resistance over cellulose

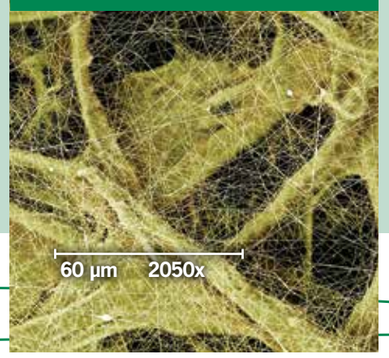
HEMIPLEAT® eXTREME eX

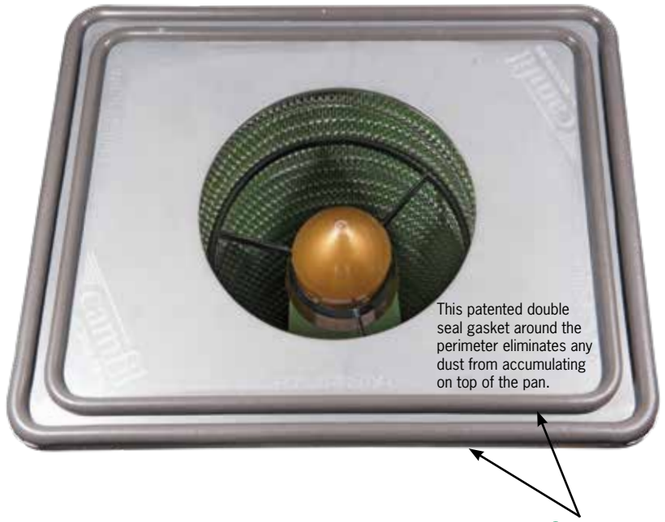
The HemiPleat eXtreme filter is the ultimate in dust collection filtration, bringing home the highest degree of efficiency and filter life on the market. The HemiPleat eXtreme uses our proven HemiPleat technology and base media with proprietary nano fibers applied to the media surface for extreme results. These nanofibers can be applied to any of our base medias above.

Cellulose Polyester Blend



Cellulose Polyester Blend with eXtreme Coating



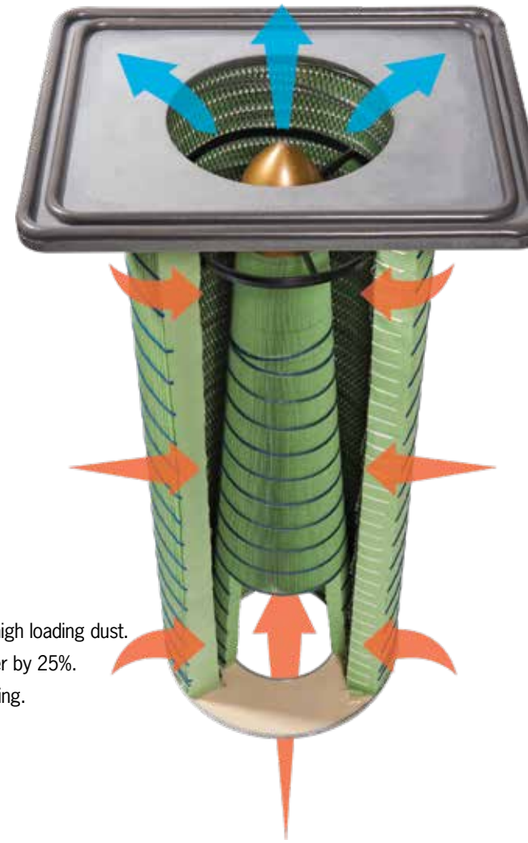


GOLD CONE® FILTER TECHNOLOGY INSIDE

Gold Cone® Double Seal Urethane Gasket

GOLD CONE® CARTRIDGE

- Vertical design of the Gold Cone® filter cartridges provides more efficient pulsing of high loading dust.
- Features a cone in the center of the cartridge, expanding the usable media in the filter by 25%.
- Test results indicate that this new pulse distribution method provides enhanced cleaning.
- More efficient operation, longer cartridge life and reduced service requirements.



New Technology

Old Technology



The HemiPleat's high quality uniform pleat pack establishes the superiority of this cartridge over all other products in the market. The difference in pleating quality can be seen here in a comparison against the media pack with typical industry pleats. Notice the difference in pleat spacing and alignment.

GOLD SERIES IS ATEX-CERTIFIED
THE SAFE DUST COLLECTOR FOR COMBUSTIBLE DUSTS

- INLET PROTECTION -



FAST-ACTING VALVE
Designed to close within milliseconds of detecting a deflagration. The fast-acting valve can be located in inlet and/or outlet ducting. The fast-acting valve creates a mechanical barrier within the ducting, which effectively isolates pressure and flame fronts from a deflagration in the dust collector and prevents them from moving through the ducting to other equipment or work areas.

INLET/OUTLET CHEMICAL ISOLATION
Designed to react within milliseconds of detecting a deflagration.
A chemical isolation system can be installed in inlet and/or outlet ducting. The chemical isolation system creates a chemical barrier that suppresses the propagation of flame, from a deflagration, through the duct to other connected equipment or work areas.

STINGER BACKDRAFT DAMPER
The Stinger was designed to be installed in the inlet ducting and is suitable for ST1 organic dusts. The Stinger uses a mechanical barrier that is held open by the process air and is rapidly closed by the pressure forces of the deflagration. When closed, the mechanical barrier isolates pressure and flame fronts from being able to propagate upstream to connected equipment or work areas.



Deflagration Venting Sequence



- OUTLET PROTECTION -



INTEGRATED SAFETY MONITORING FILTER (ISMF)
The iSMF isolates the downstream equipment and work areas from the propagation of a flame front during a deflagration. The Gold Series dust collector with an integrated Safety Monitoring Filter allows you to recirculate exhaust air back into the work space even if your dust is combustible. The key advantage of this device is that it prevents the transmission of combustible dust (fuel) from the collector into other areas of the factory.

- DEFLAGRATION VENTING -



DEFLAGRATION VENT
Designed to be the “weak” link of the vessel, deflagration vents open when predetermined pressures are reached inside the dust collector allowing the overpressure and flame fronts to exit to a safe area. Deflagration vents minimize damage to the dust collector caused by overpressure created by a deflagration. Camfil APC’s standard deflagration vents are ATEX certified and NFPA compliant.

FLAMELESS VENT
Designed to install over a standard deflagration vent, the “FlamQuench SQ” extinguishes the flame front exiting the vented area not allowing it to exit the device. This allows conventional venting to be accomplished indoors where it could otherwise endanger personnel and/or ignite combustible materials and cause secondary fires or deflagrations.

CHEMICAL SUPRESSION
A chemical suppression system reacts within milliseconds of the detection of a pressure rise associated with a deflagration. A chemical suppression system is installed in the collectors dirty air section. The chemical suppression system reduces the maximum overpressure produced by a deflagration by extinguishing the deflagration with a chemical agent. This system is often used when locating or venting a collector handling combustible dust outside the building is not an alternative.



GOLD SERIES - PRODUCT OVERVIEW:

Gold Series



- Modular design for flexibility
- Heavy duty construction
- Gold Cone® HemiPleat® filters
- Component configurations are virtually unlimited

Gold Series Camtain



- Pharmaceutical and hazardous dust applications
- Bag In Bag Out (BIBO) safe change containment systems
- Independently surrogate tested for containment performance

Gold Series High Vacuum



- Vessel strength: 17 in Hg vacuum, 8 PSI positive pressure
- 2 and 4-cartridge models
- Use as central vacuum system, positive or negative product receiver or high pressure bin vent

Gold Series Packaged



- Smoke and dust collector for CNC laser and plasma cutters
- Fully assembled and prewired unit - just plug it in!
- Fan rated 2,500 CFM at 10" w.c.

Cyclone Separators



- High efficiency centrifugal particulate separators
- Excellent as prefilters to large cartridge collector systems in many applications

Gold Series GS4 Mini



- Self contained systems for 1,000 to 2,000 CFM applications
- Fully assembled and prewired unit includes fan, controls, motor starter, filters and cleaning system

Zephyr® III



- Portable dust collector
- Three-stage filtration
- For welding fumes, grinding dusts
- 700 CFM at capture hood
- Heavy duty fume arm is free of obstruction inside

Gold Series Mini - Portables



- Single cartridge dust collector
- Mini solution for sub 500 CFM applications where you want a dedicated dust collector for one process machine or as a bin vent

Efficient Fan Motors



- Fan provided with premium efficient "E" motor
- Non-overloading backward inclined fan wheels with standard supplied integrated damper

Controls



- FDC Controller
- Motor Starters
- VFD's
- Custom Controls

GoldLink™

GoldLink™ is your anytime access to the diagnostics of your dust collection system.

HemiPleat® Filters



- High performance filtration with Multiple media options
- State-of-the art pleat spacing
- Size for nearly all industrial dust collector brands

Gold Cone®



- Lower pressure drop
- Enhanced cleaning for more efficient operation
- Excellent energy performance

HemiPleat® Oval



- Improves performance of existing dust collector
- Greater media utilization
- More effective cleaning and lower pressure drop

DuraPleat®



- Handles difficult dust applications
- Exceptionally rugged, long lasting
- Washable media may be reused in many applications

GOLD SERIES - OPTIONS:

Mining Options

Top Hand Rails



UHMW Mining Inlet Baffle



Slurry Tank for Conveying Dust



Copper Tubing and Diaphragm Maintenance Valve



Gold Cone® Media Options

Green Moisture Resistant Media



Fire Retardant Media



Carbon Static Electricity Conductive Media



Synthetic Washable Media



Prevention of Fire and Dust Explosions

Integrated Safety Monitoring Filter



Sprinklers



Deflagration Vent



Deflagration Vent With Blast Plate



Vertical Deflagration Vent



Flameless Deflagration Vent



Stinger Backdraft Damper



Chemical Suppression System



Prevention of Fire and Dust Explosions

GOLD SERIES - OPTIONS:

Hopper Discharge Options

Low Pro Hopper Quick Seal



GS Drum Kit with Slide Gate



GS Skirt



Auger Screw Conveyor



Self Dumping Hopper



Clean Sweep



Heavy Duty Cast Rotary Airlock



Fabricated Flex Tip Airlock for Fibrous Dust



Cast Rotary Airlock



Dust Briquetter



Inlet Options

Drop Out Module



Channel Baffles



Abrasion Resistant Inlet



Spark Diverter Inlet



Fans

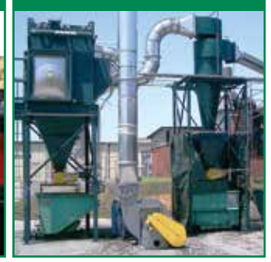
Top Mount Fan



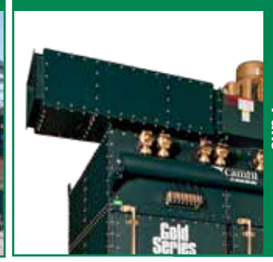
Side Mount Fan



Ground Mount Fans



Fan Silencer



Extended Options

Pulse Header Silencer



GS High Vacuum



Fully Insulated Collector



Stainless Steel



Remote Safety Monitoring



Broken Bag Detector



Collector Stiffening



Compressed Air Regulator



Custom Structural Steel



Custom OEM Designs



Inspection View Port



Heat Exchanger for Exhaust Gas that cannot be recirculated



Gold Cone® Overbags for Fibrous Dust



Platform and Ladder



Bin Vent



Bag-In Bag-Out (BIBO)



Pharmaceutical Options

Butterfly Valve



Continuous Liner Discharge



Do you have a special requirement?

Our experts will be pleased to help you!

www.camfilapc.com

camfil
AIR POLLUTION CONTROL

MODEL OVERVIEW

Height: 3,956 mm



GS2
726 kg
1,067 x 1,159 mm
(W x D)

GS4
794 kg
1,067 x 1,692 mm
(W x D)

GS6
1,043 kg
1,067 x 2,226 mm
(W x D)

GS8
1,254 kg
1,372 x 2,604 mm
(W x D)

GS10
1,415 kg
1,372 x 3,213 mm
(W x D)

GS12L
1,633 kg
1,372 x 3,670 mm
(W x D)

GS16L
2,200 kg
4,267 x 1,692 mm
(W x D)

GS12S
1,701 kg
2,134 x 2,226 mm
(W x D)

GS18
2,926 kg
3,200 x 2,226 mm
(W x D)

Height: 4,363 mm



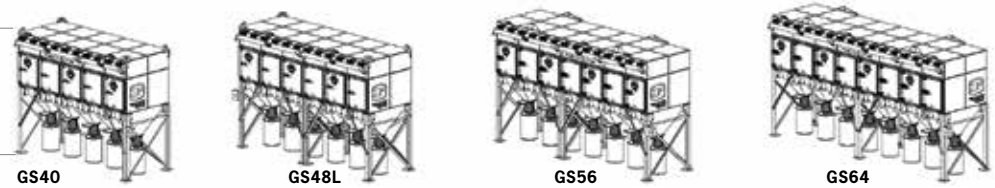
GS16
2,155 kg
2,283 x 2,759 mm
(W x D)

GS20
2,722 kg
2,283 x 3,293 mm
(W x D)

GS24
2,835 kg
2,283 x 3,826 mm
(W x D)

GS32
3,833 kg
4,267 x 2,759 mm
(W x D)

Height: 4,363 mm



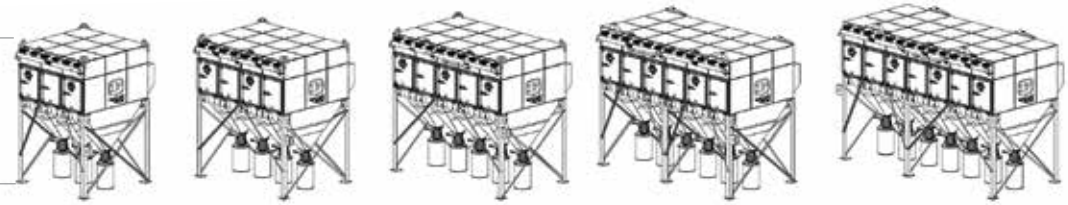
GS40
4,627 kg
5,334 x 2,759 mm
(W x D)

GS48L
6,690 kg
6,401 x 2,759 mm
(W x D)

GS56
7,847 kg
7,468 x 2,759 mm
(W x D)

GS64
9,004 kg
8,534 x 2,759 mm
(W x D)

Height: 4,972 mm



GS36
4,354 kg
3,200 x 3,874 mm
(W x D)

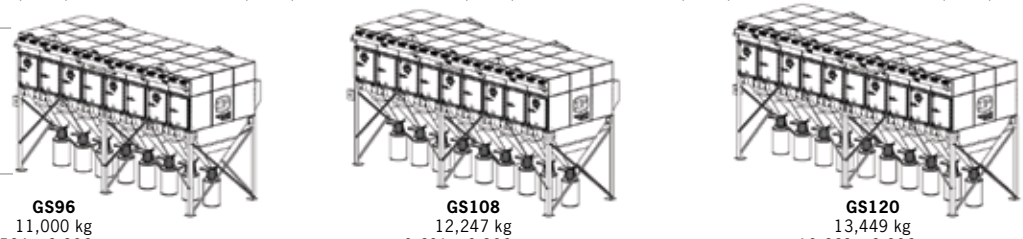
GS48
5,625 kg
4,267 x 3,874 mm
(W x D)

GS60
6,055 kg
5,334 x 3,874 mm
(W x D)

GS72
8,528 kg
6,401 x 3,874 mm
(W x D)

GS84
9,730 kg
7,468 x 3,874 mm
(W x D)

Height: 4,972 mm



GS96
11,000 kg
8,534 x 3,826 mm
(W x D)

GS108
12,247 kg
9,601 x 3,826 mm
(W x D)

GS120
13,449 kg
10,668 x 3,826 mm
(W x D)

Gold Series/Brochure/English/05-2019

camfilapc.com

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