

Heavy-Duty Clean Air Solutions



air pollution control

Camfil Farr APC

APC Capabilities Brochure

Applications & Market Focus



Clean Air Solutions

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 Farr APC can help solve your dust problems.

State-of-the-art manufacturing

- State-of-the art testing facilities
-  Every piece of Camfil Farr APC equipment is manufactured at an ISO 9001 certified facility.
- The most technologically advanced dust collection systems on the market.
- Quality product from design to shipment.
- Four locations:
Collectors can be built in Jonesboro, Arkansas, USA; Manchester, UK; Kuala Lumpur, Malaysia or Laval, Canada.
- Streamlined manufacturing through CNC production equipment and certified welders.
- Guaranteed high quality dust collectors available...*fast!*

Worldwide Support

- **Readily available detailed information** on all Camfil Farr APC products and services.
- **Authorized Camfil Farr APC representatives near you.**
- **Camfil Farr APC trained specialists provide the best solutions** to today's complex air pollution challenges.

**Camfil Farr APC is a proud member of the Camfil Farr Group—
A leading worldwide filtration company dedicated to clean air!**

Mission Statement

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

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

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

*We will make the best dust collector in the business from
an end user operation and maintenance viewpoint.*



Jonesboro, Arkansas, USA—
Farr APC headquarters and production facility.





Gold Series® units on seed processing

The most rugged, reliable, easy to maintain dust collectors you will ever own—GUARANTEED!

Engineering—Your filtration solution

- You talk, we listen.
- Engineers can design a dust collector to fit your needs.
- Team of product support personnel dedicated to providing application engineering and processing your order.
- Engineers extensively involved with indoor air quality requirements.
- Fully-integrated manufacturing process—we make the dust collector and the filter cartridges in-house.



Gold Series® installation on weld smoke



ST STL side draft hoods for food additives

Seeing is Believing!

Once you see Camfil Farr APC dust collectors in action for yourself, you'll understand. Let us bring our traveling display unit to you. Call Camfil Farr APC today for details.

Testing Capabilities

Farr takes the guesswork out of dust collection.

Camfil Farr APC's goal is to test your dust to make sure you get the best possible dust collection solution for your process.

Dust Testing

- **Thorough testing and analysis** turn guesswork into **FACTS (Farr Air Cleaning Test System)**.
- **The most complete, state-of-the-art dust collection testing facilities.**
- **Full-scale testing apparatus** utilizing every major category of dust collector.
- **Evaluation** of different media types, filter configurations, filtration velocities, temperatures, airflows and dust loading conditions as needed.
- **Small sample testing results in highly accurate identification of the contaminant. Pinpoint characteristics** including particle size distribution, specific gravity, shape and structure, solubility and hygroscopicity.
- **The end result takes the guesswork out of application design and turns it into a science.**



Camfil Farr APC guarantees our dust collectors to meet applicable local and other current legislation of emission control standards. Whether exhausting outside or recirculating Camfil Farr APC can solve your dust problems.

Dust samples tested

Send us your dust!





Gold Series units for a laser table manufacturer

Gold Series®—Customised for Original Equipment Manufacturers (OEM).

Camfil Farr APC can work with any OEM to create a dust collector solution that will fit unique applications.



stainless steel GS2's



GS6's for copper mining



GS8's for dryer manufacturer

Blasting



GS60 on windmill tower grit blasting

Blasting

The Camfil Farr APC team has extensive expertise in metal surface preparation applications including wheel blasting, grit/air blasting, shot peening and more. Whether it's light or heavy equipment metal preparation, we have the know-how to clean it up.



GS20 on aluminium shot blasting

Welding and Grinding



Welding and Grinding

We place a huge priority on clean air when welding, since weld fume has been linked to a variety of illnesses. When welding stainless steel, toxic hex chrome can be released into the air. Camfil Farr APC has hundreds of installations to clean up weld smoke and grinding dust. Let us help you clean up your factory and show an annual rate of return on your dust system.



GS48 on weld fumes with integral HEPA



GS48 on automotive welding



GSB on parts grinding

Laser and Plasma Cutting



GS4P ships completely assembled, just plug and play

"We are very happy with the **Farr Gold Series**[®]. The GS36 was purchased for our CNC plasma cutter to replace a horizontal 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 at less than 3" pressure drop. Also, the Farr people have been a pleasure to do business with."

– Dan Schuler, Schuler Mfg.

Laser and Plasma Cutting

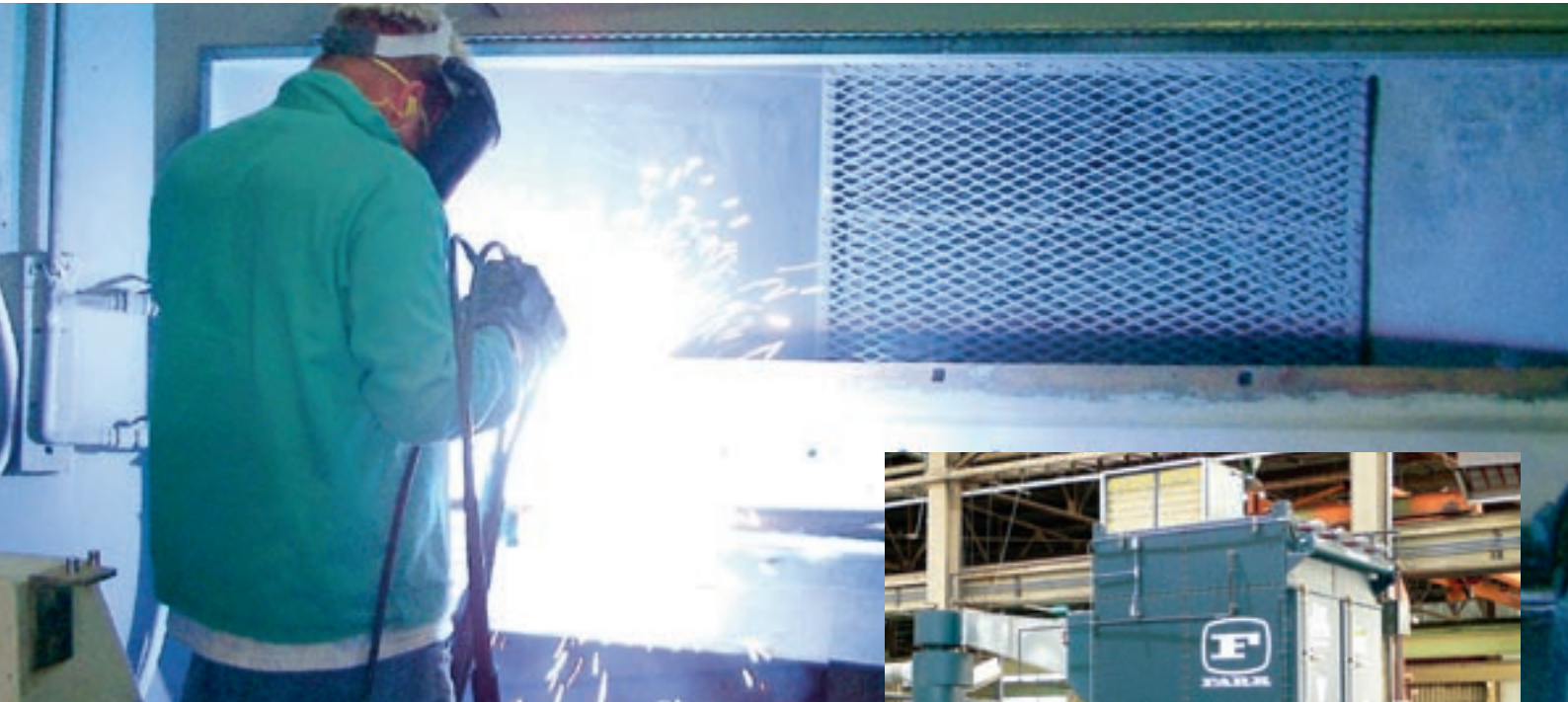
Camfil Farr APC works with a variety of laser and plasma OEM's to supply fume removal systems. Pictured is an Amada laser with a Camfil Farr APC GS4P custom packaged dust collector designed specifically for their table. We can customise to any OEM requirements.



GS4P for Amada laser table



Thermal/Flame Spray



The Gold Series® cartridge dust and fume collector combines enhanced performance with ease of service while cleaning the work environment of hazardous dust and fumes.



GS16 on zinc arc spray

Thermal/Flame Spray

Types of Thermal Sprays:

- Electric Arc Wire (EAW) Spraying
- Powder Spraying
- Electric Arc Spraying
- HVOF
- Plasma Spraying

Because of the various types of thermal spray applications and their effects on the operation of dust collectors, it is important to identify your specific thermal spray operation. Each process involves different shaped and sized particulate along with varying loads. Additionally, strict safety procedures need to be addressed as almost all thermal spray operations can be explosive and/or flammable. Let Camfil Farr APC's expertise in this application help you to put in a safe dust collection system.

“Over the years, we tried several types of dust collection equipment on EWA spraying. However, all previous attempts at extended filter life (more than six months) failed until we installed a high efficiency “Gold Series®” cartridge collection system manufactured by Farr. At the time of this writing, the Gold Series® collector is still performing exceptionally well without a filter change after about a year and a half.”

– David Drozd, Pamarco



Thermal/Flame Spray Before Gold Series® Turned On



Thermal/Flame Spray After Gold Series® Turned On

Pharmaceutical Compounds



Camfil Farr APC bag-in/bag-out dust collectors extract dust off of tablet coaters like this Spectrum Coater from Thomas Engineering.

Pharmaceutical Compounds

The Gold Series® (GS) Dust Collector is useful in multiple pharmaceutical dust collection applications including tableting, encapsulation, coating operations, fluid bed and spray dryers, API/HAPI handling, excipients and general ventilation. The GS is perfect where high efficiency filtration is required. Camfil Farr APC offers bag-in/bag-out (BIBO) containment dust collectors to avoid cross-contamination to provide personnel safety during filter changes and waste dust removal.



GS8 BIBO on potent compounds from tablet coating



GS on vitamin manufacturing



Multiple GS dust collectors on tablet coaters



HEPA's after dust collectors



GS24 connected to ST STL hoods below on spice dust collection



GS10 on cereal ingredients

Food Processing

Companies in the food processing industry take raw agricultural products (such as grains) and turn them into the food products that we eat everyday (like bread and cereal). Dust collection applications can include dried food ingredients from coarse grains to fine spices and additives. Camfil Farr APC has numerous Gold Series® on these applications.



ST STL Side draft hoods for spice weighing



This large Gold Series® application is on a multiple tablet coater application.

These GS60's are identical systems—one is in process at all times while the other serves as a ready back up. A dozen horizontal style dust collectors were removed from this vitamin manufacturer, and all airflow was consolidated into one large system outside thereby reducing maintenance and complying with explosion safety issues related to current local legislation.





**Gold
Series**
FARR

**GET THE
GOLD
STANDARD
FOR CLEAN FACTORIES**

Paper Scrap Systems



Paper shredder at a printer

Paper Scrap Systems

Camfil Farr APC has hundreds of installations for paper trim and scrap handling applications. The Gold Series® is customised to accommodate the fibrous nature of the dust. Typically a cyclone or screen separator drops scrap into a bailer, and the GS filters the exhaust air from the cyclone or separator.



GS16 on printing



Overbags extend filter life



GS108 on corrugated box scrap

“ We were skeptical at first of a cartridge collector on wood dust, we had always used bags. But we have to say that the Gold Series® cartridge collector is working great and has exceeded our expectations.”

– Elvin Hurst Jr., Kountry Kraft Kitchens



Wood Working

There are several unique features of the Gold Series® that makes it work so well on wood and paper applications.

- The vertical arrangement and wide spacing between the cartridges keep material from bridging between them and blocking the collector.
- Cartridge overbags keep large shavings out of the cartridge pleat while allowing the finer material to pass through to be captured by the filter media.
- One cartridge will replace more than 10 bags when compared to a baghouse.

The Gold Series® has proven itself to work very well on difficult fine wood dust applications. The Gold Series® works on applications where most other dust collectors have failed.



GS16 on wood dust



GS48 on wood finish sanding



Mining

Camfil Farr APC can help your mine reduce overall emissions, thus allowing you to produce more product. Our GS dust collector has been stack tested at $.6864 \text{ mg/m}^3$ emissions on heavy duty rock crushing.



Two GS96's at a nickel mine



GS units on crushing copper ore



Paint pigment



Three GS6's on yellow paint pigment

Chemical Processing

Gold Series® dust collectors are installed in a wide variety of chemical processing applications. We can send a Camfil Farr APC sales representative to your factory to evaluate your process.



Stainless steel high vacuum (HV) Gold Series®

Agricultural Seed Processing



Multiple GS dust collectors on corn processing

Seed Processing

Camfil Farr APC has become an industry leader in seed cleaning, preparation and coating applications. With installations on nearly every continent, we can customise a system to keep your seed plant clean.



Two GS20's on seed cleaning



Rubber Grinding

Rubber grinding process poses a difficult challenge for dust collectors. Oils can be released from the rubber, blocking most dust collectors. The Camfil Farr APC team has developed a media to get the longest life out of the filters using oil resistant HemiPleat® filters in our Gold Series® dust collectors.



Engine belt



Rubber automotive belt grinding installation

Fiberglass and GRP



The fiberglass pictured is used in manufacturing the hulls of these boats.

Fiberglass and GRP

Farr APC has installations in both the fiberglass manufacturing industry and glass reinforced plastic (GRP) finishing industry. Our unique overbag and vertical Gold Cone™ filters enable us to shed the fibrous dust and achieve long filter life.



GS48 on chopped fiberglass



GS48 on chopped fiberglass

The **Gold Series®** uses less duct work to get airflow in and out of the collector than traditional cartridge collectors.



Pictured here is a comparison between similar size Gold Series® collectors and regular cartridge collectors.

OURS



GS96 on fiberglass

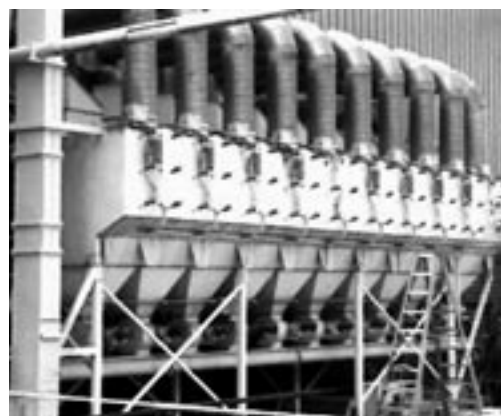


GS48 on fiberglass



GS16 on paper

THEIRS



HemiPleat®

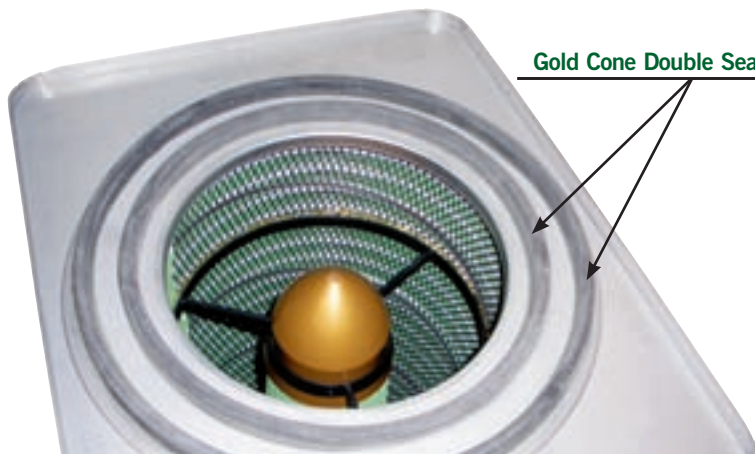
The Most Advanced Dust Collector Media Ever Made

- Poly-Tech™ media's filtration efficiency is 99.99% on the 0.5 μ and larger particles.
- The Gold Series® meets the local legislation emissions required to recirculate air back on non-hazardous dusts in most cases.
- Poly-Tech™ media is offered with a flame resistant treatment and carbon impregnated for static dissipation.
- Other media options include Dura-Pleat® for sticky dusts and PTFE for the demanding applications.



Gold Cone™ Cartridge

- Vertically mounted to shed dust readily for efficient cleaning and longer service life.
- Features a cone in the center of the cartridge.
- Cleaning is accomplished by pulse waves that emanate outward also expanding the area of the cartridge.
- Test results indicate that this new pulse distribution method provides enhanced cleaning.
- More efficient operation, longer cartridge life and reduced service requirements.



Gold Cone Double Seal Gasket

Gold Cone Key Benefits:

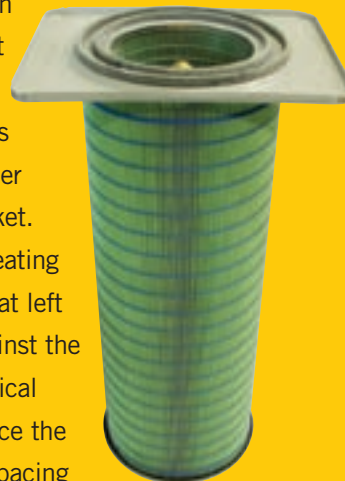
- High filtration efficiency
- Low Pressure Drop
- Long filter life

HemiPleat® vs. Typical Pleats

No matter which dust collector you have, the HemiPleat® filter can improve its performance. *Guaranteed.*

Media Comparison

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 at left in a comparison against the media pack with typical industry pleats. Notice the difference in pleat spacing and alignment.



HemiPleat® Advantages

- Lower pressure drop through open pleat spacing improves cleaning efficiency, which will reduce energy costs through less compressed air consumption during cleaning in many applications.
- More media is available for filtration, for improved performance and longer life.
- The separation beads, not the media pleats, contact the inner cage, protecting the media from frictional damage.

HemiPleat® Breathable Media Pleats

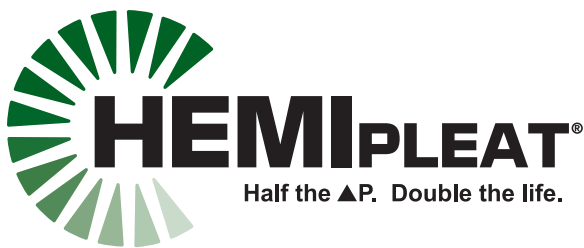
Typical Industry Packed Media Pleats

The HemiPleat® will improve the performance of any cartridge dust collector... guaranteed.



Has this happened to you?

We make filters to fit any of our competition's dust collectors.



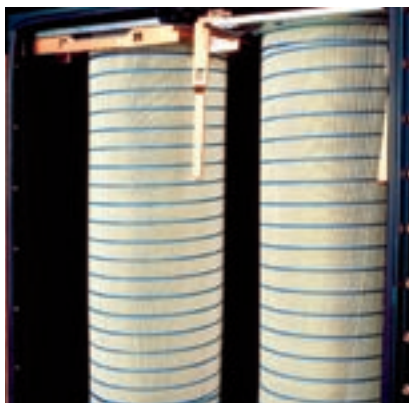
Replacement Filters

Gold Cone™ Filters



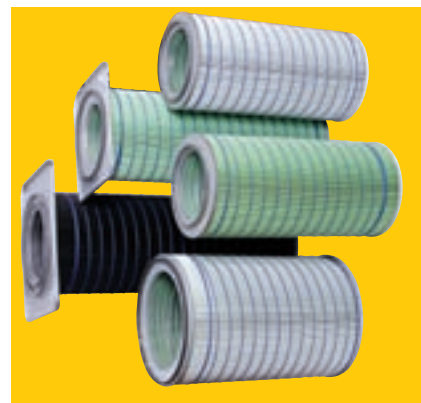
Camfil Farr APC Gold Series® cartridges have an expanded capacity due to the patented inner Gold Cone™. This inner cone increases media area and provides uniform dispersion of back-pulsed air. It also opens up more usable space for air flow in the filter.

Tenkay® Filters



Tenkay® Filters are replacement elements for aspirated cartridge dust and fume collectors and gas turbine filter houses. Greater media utilisation and more effective filtration provide enhanced performance, longer service life.

OEM Replacement Filters



Camfil Farr APC can supply its patent pending HemiPleat® technology and high filtration efficiencies to almost any dust collector. Call our filter specialists to see if we can provide longer life and better efficiency for your existing dust collector.

Heavy-Duty Clean Air Solutions



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