



**FARR**  
Air Pollution Control

Looks like a safe because it's built like a safe.



Tablet Manufacturing

**gold series® for pharmaceutical compounds**

Application Focus on Pharmaceutical Compounds

Gold Series® Camtain™

Air Pollution Control





"The Gold Series BIBO Camtain is a winner for our pharmaceutical applications. It is way ahead of the curve of anyone in the dust collection industry. The results from the potent compound surrogate test are very positive. Nice work!"

Project Engineer, Major Pharmaceutical Company

## Gold Series Camtain™ on Pharmaceutical Applications

Bag In Bag Out (BIBO) safe change containment systems are available on both the cartridge access doors and dust discharge system underneath the collector. Farr has BIBO dust collectors on pharmaceutical applications in the USA, Canada, and Europe.

Farr has named its BIBO dust collection system the Gold Series Camtain™. Camfil Farr is the parent company of Farr APC and is the world leader in HEPA BIBO filtration systems.

## Benefits of the Gold Series Collector

- High entry cross-flow inlet eliminates upward can velocities that can hold fine powder up in the filters reducing re-entrainment of the fine particles.
- Vertically arranged filters shed all the particulate—vs. horizontal filters which allow the dust to build on top of the filter.
- High efficiency filters stop 99.99% at 0.5 microns ( $\mu$ ) of the dust!
- Special treated filter media repels the fine particulate for lower pressure drop and long filter life.
- Gold Cone provides 25% more media for long service life.
- BIBO door has camlock sealing action and is hinged to easily move out of the way.
- Filters are sealed via camlock action making it easy to work through the bag.



## Gold Series on Pharmaceutical Company Applications

The Gold Series (GS) dust collector can be used in a variety of pharmaceutical dust collection applications such as pill presses, tablet coating, fluid bed dryers, spray dryers, and general room ventilation. The GS is perfect for high efficiency filtration in pharmaceutical manufacturing.

# on Pharmaceutical Compounds

BIBO Filter Access

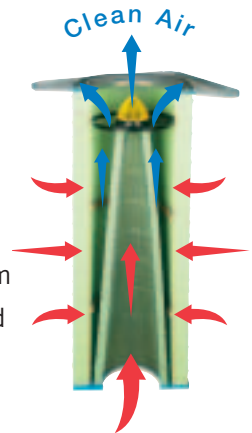


BIBO Dust Discharge



## Gold Cone Cartridge

Camfil Farr **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 useable space for air flow in the filter.



### Key benefits:

- High filtration efficiency
- Excellent energy performance
- Long element life

## The Only Potent Compound Surrogate Tested Dust Collector

The Gold Series Camtain BIBO door and BIBO dust discharge system has been personnel exposure tested with lactose as the surrogate dust for the potent pharmaceutical compound. Over 75 air quality and swab test points were taken during multiple change outs of the dust and filters. This was performed by an independent testing firm (Broadspire) who is certified by a major pharmaceutical company for potent compound sample testing. The GS Camtain is the only potent compound tested dust collector on the market today, and can handle your toughest applications. Full test report data is available upon request.

The BIBO Filter change process—All camlock filter change—No knobs or threads



## The Gold Series Camtain™ dust collector combines enhanced performance with ease of service *while protecting the work environment from harmful dust.*

### Safe Air for a Safe Work Environment



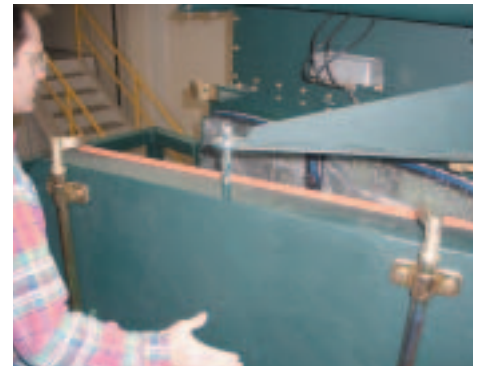
GS24 with top mount fan and vertical explosion vent

#### Safety Considerations

Two key concerns come into play with pharmaceutical dusts—first is the hazardous nature of the compound as it relates to direct human exposure, and the second is its explosive nature. With the first issue you must determine if BIBO containment systems are necessary to protect the workers. In most cases Farr recommends a HEPA secondary polishing system. With HEPA backup systems after the dust collector, recirculation of the filtered air back into the HVAC system is gaining in popularity in the pharmaceutical industry.

Explosions are a major concern on most pharmaceutical compounds. Steps such as explosion venting, suppression, and isolation systems may be required depending on the explosion rating of the

dust and the location of the collector. When explosion vents are required, they must be vented to the outside by either placing the collector outside, or ducting the vent exhaust a short distance through a wall to the outside. Farr recommends that an independent PE specifies explosion protection as it relates to recommendations in NFPA, Factory Mutual or ATEX.



Davit hinged BIBO Door

#### PHARMACEUTICAL COMPOUNDS GS USERS AND SPECIFIERS

MCNEIL CHC  
EON PHARMA, LLC  
NIRO INC.  
BIOVAIL CORPORATION  
NEIL LABORATORIES  
UPSHER-SMITH LABORATORIES, INC.  
TYCO HEALTHCARE/MALLINCKRODT

ABBOTT BIOTECHNOLOGY LTD.  
WYETH  
STANTEC  
JACOBS ENGINEERING  
GLATT AIR TECHNIQUES  
MERCK-MEDCO



**FARR**  
*Air Pollution Control*

Farr APC is a proud member of the Camfil Farr family.

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**Gold Series-** Looks like a safe because it's built like a safe.



Additional APC offices and factories in Laval, Canada (450-629-3030), and UK (44-121-707-8211)