

PHARMACEUTICAL COMPOUNDS

The Gold Series® Camtain™ dust and fume collector combines enhanced performance, safe-change capability and ease of maintenance while protecting the workplace and environment from fugitive manufacturing particulates.

Benefits of the Gold Series® Camtain™

- Re-entrainment of dust is reduced by a high entry, crossflow inlet, which eliminates upward velocities that can hold fine particulate in the filter cartridges.
- Vertically arranged filters release nearly all dust particles versus horizontal filters, which allow particles to build up on top of the filter.
- High efficiency filters stop 99.99% of the dust at 0.5 microns and MERV 15/16 rating.
- Specially treated filter media available for repelling fine particulates for a lower pressure drop and long filter life.



Pharmaceutical Applications

- The Gold Series® Camtain™ units can be used in a variety of pharmaceutical dust collection applications including tablet presses, coating, fluid bed drying, spray drying, blending, granulation and general room ventilation.
- The GSC is perfect for high efficiency filtration where recovery of the product is not required.
- Safe-change containment systems are available for both the filter cartridges and discharge system underneath the collector. The cartridge change utilizes the bag-in/bag-out (BIBO) method while the discharge uses continuous liner technology.
- The GSC can also support traditional dust collection for nuisance dusts and fumes that do not require full isolation and containment.
- Farr APC has containment dust collectors for pharmaceutical applications in North, South and Central America, Asia and Europe.



Two Gold Series Camtain CGS6 models on a pharmaceutical application in Guayama, P.R



FARR
Air Pollution Control



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

www.farrapc.com

Application Focus

PHARMACEUTICAL COMPOUNDS

SAFE AIR FOR A SAFE WORK ENVIRONMENT



GS8 Camtain™ on Potent Compounds from Tablet Coating



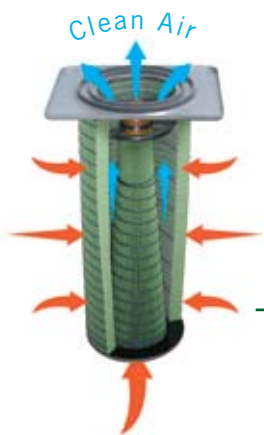
GS8 Containment Dust Collector Filter Change-out

Safety and Health Considerations

Two key concerns are the focus when handling pharmaceutical dusts – the potent, toxic or allergenic properties of the compound as it relates to personnel exposure and the explosion properties of the compound.

The first issue involves understanding the toxicological properties of the material, reviewing the Occupational Exposure Limit (OEL) and performing a risk based exposure evaluation to determine the methods for proper control. In most cases, some level of isolation and containment is required due to the fact that the pharmaceutical dust is extremely potent while being captured in a non-production area and cannot be released into the surrounding environment. In most cases, Farr recommends a HEPA secondary safety system. With HEPA backup systems after the dust collector, recirculation of the filtered air back into the HVAC system is possible. This can significantly reduce energy costs while providing the necessary level of filtration for discharge air required by the OSHA/EPA.

The second concern involves deflagration and explosion potential. Control measures such as explosion venting, chemical suppression and isolation systems may be required depending on the physical characteristics of the dust relating to Kst, Minimum Ignition Energy (MIE) and the location of the collector. When explosion vents are required, they must be vented to the outside by either placing the collector outdoors or ducting the vent exhaust a specified distance through the building structure. Farr recommends an independent PE specifies what explosion protection is required for a given material as it relates to standards in NFPA, ATEX and the major insurance carriers.



Key benefits:

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

Gold Cone™ Cartridge

Camfil Farr **HemiPleat®** 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.

Pharmaceutical Compounds GS Users and Specifiers

Wyeth
Abbott
Bio Vail
BMS
Eli Lilly
Perrigo

Pfizer
Novartis
Tycos Mallinckrodt (Covidien)
Upsher Smith
Merck
J&J Ortho-McNeil

J&J Janssen
Warner Chilcotte
GSK
Sandoz–Eon Labs



FARR
Air Pollution Control

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

800-479-6801

www.farrapc.com

870-933-8048 Jonesboro, AR

email: filterman@farrapc.com

Additional APC offices and factories in Laval, Canada

[450-629-3030], Manchester, England [44 (0) 1706-238-000] and
Kuala Lumpur, Malaysia [6-03-8023-8250]



Find out today why the **Gold Series®** is praised as the ultimate choice for a clean workplace.