The Remembering Tree, a vision of sustainability

Created by Kelly Stevens, artist and Farr Gold Series® production welder, this metal sculpture stands 9.2 meters tall in front of the Jonesboro, AR, USA factory. This artistic sculpture represents Camfil APC’s dedication to the environment, our employees, customers, vendors, stakeholders, and to the future of cleaning up factories around the world.
The HemiPleat® will improve the performance of any cartridge dust extractor... guaranteed.

Power up your dust extractor with HemiPleat®! This statement comes from the fact that with lower pressure drop HemiPleat filters, you can pull more air with less energy, thus capturing pollutants better. Filtration efficiencies exceed 99.99% at 0.5-micron size particles. The air coming out of a Farr Gold Series dust extractor with HemiPleat® filters has been tested to exceed the air quality required in most hospital operating rooms!

Green Your Factory

Our goal at Camfil APC is to be green, starting with the environmental benefits of our products. We help our customers go green by stopping thousands of different pollutants from entering the workplace air and the outside air. We also build our equipment to last, as less waste is created over time. Our HemiPleat technology has revolutionized the air pollution control industry by delivering very high efficiency in a filter that lasts twice as long as competitive products. It contributes to sustainability while saving energy. Even the paint on our Farr Gold Series extractor is green, and not just the color. We use an environmentally friendly powder painting process so no VOCs are emitted. Furthermore, premium efficieny motors are standard on the fans we supply. We are constantly launching green initiatives.

We look forward to working with you to “green” your factory.

Lee Morgan
President
Camfil Air Pollution Control

Farr Gold Series® Extractors Come With a 12 YEAR WARRANTY

Camfil APC guarantees our dust extractors will meet emission control standards. Whether exhausting outside or recirculating (when this is allowed), Camfil APC can solve your dust problems.
Everything makes **dust**... 

Typical Applications:

- Abrasive Blasting
- Chemical Processing
- fiberglass/Composites
- Foundry
- Grinding
- Mining
- nuisance Dust Ventilation
- Paper Scrap Systems
- pharmaceutical
- Plasma/laser Cutting
- Powder/Bulk Materials
- food/sugar
- Powder Painting/Pigments
- Seed Processing
- Shot Peening
- Thermal Spray
- Welding Smoke/Fume
- Wood Processing

**The Farr Gold Series cleans it up**

Superior performance features with exceptional ease of installation and service make the Farr Gold Series the ultimate choice for a clean workplace.

**Any Color You Want!**
The Most Advanced Dust Extraction Filter Ever Made

- Poly-Tech™ media’s filtration efficiency is 99.99% on 0.5 µm and larger particles.
- The Farr 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.

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, 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.

The HemiPleat eXtreme filter is the ultimate in dust extraction filtration, delivering 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 media above.
Farr Gold Series offers modular design for optimum flexibility – delivered fast!

We are very happy with the Camfil APC dust extractor. The dust extraction solution was purchased for our CNC plasma cutter to replace a horizontal cartridge dust extractor 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 750 Pa pressure drop. Also, the Camfil APC people have been a pleasure to do business with.

— Dan Schuler, Schuler Manufacturing

Farr Gold Series® Features

- Modular design for optimum flexibility—have it your way fast!
- Each module accommodates airflow up to 8,500 m³/h
- Module constructed of 4.5mm thick carbon steel
- Door, hopper, inlet and panels are all 3mm thick
- Powder painted for unsurpassed corrosion resistance
- Component configurations are virtually unlimited
- Vertical design of cartridges enables efficient pulse cleaning of dust

Easy Filter Change-out

Scan to watch filter change-out video.

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

Farr Gold Series industrial dust extractor

Scan to take a virtual ride and fly through a Farr Gold Series industrial dust extractor.

Easy Filter Change-out

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Farr Gold Series industrial dust extractor

Scan to take a virtual ride and fly through a Farr Gold Series industrial dust extractor.
Farr Gold Series® Hopper Options

Other hopper options available include drawer kit, trough hopper with screw conveyor, and continuous liner discharge.
Looks Like a Safe Because It’s Built Like a Safe

Individually Powder Coated Farr Gold Series components are individually powder coated prior to assembly for superior corrosion resistance.

Farr Gold Series® Models

Standard hopper arrangements shown. See opposite page for other hopper options.

Model # Code
GS 24
# of cartridges
Farr Gold Series
Explosion Venting Sequence

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

2. Fast-Acting Valve
   Designed to close within milliseconds of detecting an explosion, the fast-acting valve installs in either inlet and/or outlet ducting. The fast-acting valve creates a mechanical barrier within the ducting, which effectively isolates pressure and flame fronts (from either direction) from being able to propagate further through the process.

3. Backdraft Damper
   The mechanical backdraft damper was designed to be installed in the inlet ducting. The damper utilizes a mechanical barrier that is held open by the process air and is slammed shut by the pressure forces of the explosion. When closed, the mechanical barrier isolates pressure and flame fronts from being able to propagate further up the process stream.

4. Inlet/Outlet Chemical Isolation
   Designed to react within milliseconds of detecting an explosion, a chemical isolation system can be installed in either inlet and/or outlet ducting. The chemical isolation system creates a chemical barrier that suppresses the explosion within the ducting, reduces the propagation of flame through the ducting and minimizes pressure increases within connected process equipment.

Chemical Suppression

Designed to react within milliseconds of detecting an explosion, a chemical suppression system is installed in the extractors dirty air section. The chemical suppression system prevents expanding a deflagration by releasing a chemical agent. This system is often used in order to put combustible dust extractors inside the factory where you cannot vent to the outside.

Inlet Protection

Inlet Protection

Inlet Protection

Integrated Safety Monitoring Filter (Patent Pending)

The iSMF has been proven to isolate the down-stream equipment from the progression of a flame front during an explosion. The Farr Gold Series dust extractor with an integrated Safety Monitoring Filter allows you to recirculate exhaust air back into the work space when your dust is explosive. The key advantage of this device is that it prevents the transmission of explosive dust (fuel) from the extractor.
Farr Gold Series® Controls
Automatic Filter Cleaning and Energy Saving Motor Controls

GSC Controller
Our newest touch screen controller with energy efficient modes of operation. The software provides a flat menu structure that allows access to the most common parameters with the fewest number of button clicks. The language and units are easily changed to accommodate 8 different languages. The advanced section has multiple inputs that can trigger alarms for multiple external sensors and devices. A USB port is provided for software updates. A key advantage of the new touchscreen is that only two wires have to be run between the touchscreen and the pulse solenoids, regardless of the solenoid quantity.

ACDC Controller
The Advanced Camfil Dust Controller’s (ACDC) flexible design allows it to be adapted to many dust extractor configurations.

VSD Controller
The timer controller with Variable Speed Drive (VSD) option provides complete control of the fanset during and after startup. It has all the necessary functions for a controlled start of the Farr Gold Series without the high current loads typically associated with fansets during startup. It also provides the ability to control the fanset’s speed resulting in the greatest energy savings and process functionality.
If local site conditions are restricted, Camfil APC can fully engineer and assemble a complete skid mounted package for plug-and-play installation. Packages can be manufactured to meet ATEX requirements and emission standards.
Camfil APC Product Overview

**Farr Gold Series® Extractors**
- Modular design for flexibility
- Heavy duty construction
- Gold Cone™ HemiPleat® filters
- Component configurations are virtually unlimited

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

**ATEX GS Dust Extractor**
- Our engineering team can assist you with an ATEX compliant dust extractor and protection devices.

**GS High Vacuum**
- Vessel strength: 55 kPa vacuum, 0.55 bar positive pressure
- 2 and 4-cartridge models
- Use as central vacuum system, positive or negative product receiver or high pressure bin vent

**GSM4 Mini Systems**
- Self-contained systems for 1,700 to 3,400 m³/h applications
- Fully assembled and prewired unit includes fan, controls, motor starter, filters and cleaning system

**Zephyr® III Portables**
- Three-stage filtration
- For welding fumes, grinding dusts
- 1,190 m³/h at capture hood
- Heavy duty fume arm is free of obstruction inside

**GSP Packaged Systems**
- Smoke and dust extractor for CNC laser and plasma cutters
- Fully assembled and prewired unit - just plug it in!
- Fan rated 4,250 m³/h at 2,500 Pa.

**GSB Booths**
- Encapsulates work area
- Cantilevered roof design
- Excellent cross draft ventilation keeps dust out of breathing zone

**Efficient Fan Motors**
- Fan provided with premium efficient “IE” motor
- Non-overloading backward inclined fan wheels with standard supplied integrated damper

**GS-Mini™ Portables**
- Single cartridge dust extractor
- Mini solution for sub 850 m³/h applications where you want a dedicated dust extractor for one process machine or as a bin vent

**Controls**
- Standard and ATEX panels
- Motor starters
- Variable speed drives
- Custom controls

**Service**
- Dust extractor health check
- Filter changes
- Air flow / dust monitoring
- Total cost of ownership calculation

**HemiPleat® Filters**
- High performance filtration with Multiple media options
- State-of-the-art pleat spacing
- Size for nearly all industrial dust extractor brands

**Gold Cone™**
- Lower pressure drop
- Enhanced cleaning for more efficient operation
- Excellent energy performance

**NoOval**
- Improves performance of existing dust extractor
- 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
50,000 sq ft state-of-the-art manufacturing facility, located in Heywood, Lancashire, United Kingdom, dedicated to the fast supply of dust extraction equipment to Europe.