

# WOOD WORKING

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



“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

## Benefits of the Gold Series Collector

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

- The vertical arrangement of the cartridges and wide spacing between cartridges keeps the material from bridging between cartridges and plugging the collector.
- Cartridge overbags keeps the large shavings out of the pleat of the cartridge while allowing the finer material through to be filtered by the cartridge.
- The channel baffle inlet removes a high percentage of the dust before it gets to the cartridges, reducing the loading on the media and eliminating the need of a cyclone before the collector.
- The cross flow of air from the side mounted channel baffle inlet negates any can or interstitial velocity issues. Due to the cross flow of air across the cartridges there is no re-entrainment of material back into the cartridges.
- One cartridge will replace more than 10 bags vs a baghouse.

## Safety Considerations

NFPA approved explosion vents should be used on all wood applications. The collector should be located outside whenever possible or near an exterior wall with the explosion vents ducted per NFPA outside the building.

Sprinkler kits should also be installed in the collectors. If equipment being aspirated has the potential to produce sparks, such as a high speed sander, spark detection/suppression systems should be considered. It is best to have the customer check with his Insurance carrier and follow NFPA 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids, 2000 Edition.



Gold Series Cartridge with Overbag



**FARR**  
Air Pollution Control



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Application Focus

WOOD WORKING

SAFE AIR FOR A SAFE WORK ENVIRONMENT



## Sizing Recommendations

Most applications will have several different types of wood working machinery that create very different types of dust. Molders, lathes, and planners will create long curly strings of material or shavings, especially on softer woods like yellow pine. High speed belt sanders will create a very fine dust that may be referred to as wood flour. Chop saws and table saws will create saw dust which is typically the easiest dust to handle.

On all wood applications with a Gold Series the Hemipleat cartridges should be used. If 100 percent of the material is from a high speed sander or saw, over bags may help increase the life of the cartridge, but are not a necessity.

Overbags should always be used with molders, planners and lathes. The air to cloth ratio with Hemipleat cartridges should be 2:1. The hopper discharge should be no less than 14" square. Machined airlocks should never be used, but a fabricated flex type airlock will work well on this type of material. If a high pressure pneumatic convey system is used to take the material away from the collector, a wood feeder should be considered. A wood feeder is very similar to a machined airlock but is much heavier and can shear the material as it enters the feeder.

One last note in designing the system. CNC routers require 6,000 to 7,000 FPM at the head so the static pressure loss at these types of machines can be 7-10" W.C. A booster fan may be needed at the machine to meet the airflow and static pressure demands.

—The **Gold Series** has proven itself to work very well on difficult Laser and Plasma Cutting applications. The Gold Series works on applications where most other dust collectors have failed.



### Key benefits:

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

## 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.

## WOOD WORKING APPLICATION FOCUS USERS

Munford High School  
 Sears Trostel Lumber  
 Hill-Rom Company  
 Fairport Boces  
 Garmin International  
 Rohde Bros.  
 Ledegar Sheet  
 Greene, Tweed & Co.

Kountry Kraft Kitchens  
 Cabrillo Cabinets  
 Haworth Furniture  
 Bertch Cabinets  
 Princeton University

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

## REFERENCES

Kountry Kraft Cabinets • Elvin Hurst Jr. • 610-589-5747  
 Bertch Cabinets • Jim Senn • 319-296-2987



# FARR

**Air Pollution Control**

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## 800-479-6801

[www.farrapc.com](http://www.farrapc.com)

870-933-8048 Jonesboro, AR  
email: [filterman@farrapc.com](mailto:filterman@farrapc.com)

Additional APC offices and factories in Laval, Canada (450-629-3030), and UK 44 (0) 1706 238 000