



Low Profile, More Airflow, Less Noise Make Phyllis Morris a Good Neighbor

INDUSTRY: Sawdust from wood shop routers, table saws, finishing operations

PROBLEM: The old baghouse had insufficient airflow and was too tall for the neighborhood

SOLUTION: Torit PowerCore dust collector with PowerCore filter packs — 50% smaller than a traditional baghouse would be



Unobtrusive: This Torit PowerCore CPC-12 is 50% shorter than a traditional baghouse, operates more quietly, and provides higher efficiency filtration.

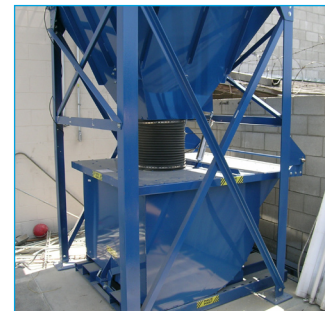
Phyllis Morris Originals creates luxury furniture, hand-crafted from beautiful woods and other materials. With a recent business expansion, the old baghouse dust collector no longer had the airflow the woodshop needed. Since the plant property borders a residential area, quiet operation, low emissions, and low height were key factors in the replacement decision. Brett Schervone, vice president of manufacturing, shopped around and learned about smarter, smaller Torit® PowerCore® dust collectors.

Schervone chose Torit PowerCore model CPC-12, designed for 7,000 cfm* airflow with a 20 hp fan. The collector contains 12 PowerCore filter packs, each measuring only 7"D x 22"L. The filter house is 4 feet high, and sits on legs and hopper, for a total height of 12 feet. A small silencer box is mounted above the clean air outlet.

In contrast, a conventional baghouse with 7,000 cfm airflow would have been over twice as tall — 28 feet high — with 81 filter bags, each 8 feet long.

Donaldson's advanced nanofiber filter media, Ultra-Web®, provides outstanding filtration in the PowerCore filter packs. In tests, Ultra-Web results in 78% fewer emissions than traditional 16-oz polyester filter bags.

Because of the large amount of dust generated, Schervone wanted a high-capacity hopper solution. Donaldson® Torit® provided a 2-yard capacity dumpster (shown at right), approximately equal to seven 55-gallon drums.



The air-actuated lid of the Donaldson dumpster seals tightly, preventing leaks and dust reentrainment, while eliminating the need for a rotary airlock valve. The dumpster is on rails so it's easy to pick up with a forklift for emptying elsewhere.

After 6 months of steady operation, the system pressure drop runs at 1.4 to 1.6 "wg. The quiet operation of the Torit PowerCore doesn't disturb the neighborhood.

Schervone comments, "Without being an eyesore in the neighborhood, Torit PowerCore enabled us to upgrade our dust system with higher airflow, cleaner air, and quieter operation, all in a smaller footprint." ○

* cfm = cubic feet per minute

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