

# First-Ever 5-Stage Shop Air Cleaner

Air-Vac Systems, long-time manufacturer of shop air vac cleaners in Cedar Falls, Iowa, recently announced a first-of-its-kind 5-stage, dual intake air cleaner.

Robert Hughes, president of Air-Vac Systems, says his company has been building and selling its 2-stage air cleaners to farm shops, welding, machine and diesel shops for 25 years. The 2-stage unit consists of a powerful fan that pulls dirty air through an industrial grade, 4-in. thick pleated pre-filter and then through a 95 percent efficient bag-type filter. "The 2-stage unit works great for removing any liquid or solid particulates from ambient air," he says.

Hughes says their new 5-stage Air-Vac unit will also remove odors, toxic gases, chemical vapors, and VOC's. It will also kill mold, bacteria and viruses, both airborne and on surfaces.

The 5-stage air cleaner uses the same pleated and bag-type filter as the 2-stage model. It's followed by a 75 percent charcoal bypass filter and finishes with a large ultraviolet (UV) light encased in a titanium oxide filter. "The combination produces what's called photo catalytic oxidation or PCO technology," says Hughes. "The process creates hydroxyl

radicals and superoxide ions, which are highly reactive electrons that convert harmful particulates and toxic gases into safer compounds, such as carbon dioxide and water.

"PCO technology is many times more effective than a HEPA filter, without diminishing the air cleaner's cfm's as HEPA filters tend to do. A HEPA filter will remove particles down to .03 of a micron, whereas PCO technology takes out particulates down to .001 of a micron."

Hughes says the wife of one of his customers came into his shop a couple of days after he had installed his PCO units and couldn't believe the difference. "She was used to the smells of gas, oil and stale cigarette smoke and said she was glad that now 'the stink is gone'".

One M-30UV AIR-VAC 5-stage air cleaner will clean up to 2,000 sq. ft. of air. For larger shops simply add more



units. It sells for \$3,680 and is shipped complete with filters and eyebolts for ease of installation. Air-Vac Systems is offering a \$400 discount to FARM SHOW readers, which results in a final price of \$3,280. The Air-Vac M-30 Standard 2-stage is available for \$1,990. Air-Vac's M-25 air cleaner is also still available (see page 40).

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Reader Inquiry No. 72

## "Bin Bar" A Big Hit At On-Farm Wedding

North Dakota farm girl Chelsey Zeltinger's wedding this past August was extra special. You might have even heard about it because a picture of a "bin bar" the family made out of an old 1,000-bu. Butler grain bin became famous on Facebook and was seen by hundreds of thousands of people. We saw the photo and decided to get more information.

"I knew right when I got engaged that I wanted something like it at my wedding, so I kept bugging my dad, brother and fiancé to make it. They also thought it would be a cool idea but weren't thrilled that they would have to make it," says Chelsey.

Her father, Stu Richter, admits that he was hoping Chelsey would forget about this idea, "but being the persistent one, she doesn't forget," he jokes.

Only a few weeks before the wedding, during a wet spell, Stu, his son Brady, groom-to-be Michael Zeltinger, and a co-worker, Neil Backman, began the project.

"They surprised me by doing it while I was away from home and feeling pretty stressed. The sentimental value of them doing this for me made it even more important and

special," Chelsey explains.

According to Stu, the small bin is probably 50 years old and hadn't been used for at least 30 years. It was just sitting out in the pasture.

"We brought it home with a tractor loader and set it down in the shop. We started by suspending the bin 6 in. off the ground and using a Makita grinder with a cutting blade to remove the bottom foot because it was rusty."

After setting the bin on solid ground again, the team used their grinder to cut the wall half way up, and all the way around, effectively dividing the bin into a top and bottom section. They left a 36-in. opening by using five 8-ft. sections of sucker rod as pillars.

"We welded 3 brackets to each of the sucker rod bottoms, and 3 more to their tops, then bolted them to the inside of the bin. We had an ample supply of sucker rod because we also use it for our feedlot fencing," Stu explains.

At this point, it was time to install a counter top so the bin could be used as a bar. The group did this by mounting scrap 2 by 6-in. boards all around the top edge of the



When Chelsey Zeltinger got married last year her family made this "bin bar" out of an old 1,000-bu. grain bin. They cut the bin in the middle leaving a 36-in. opening.

building's bottom half, using 4-in. shelving brackets.

The final touch was stringing lights around the top and bottom of the opening. The family then used an old, empty electrical spool as a table for the bartenders to mix drinks on, and put a couple of big coolers inside for beverage storage.

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