

WANT CLEAN AIR? 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 30 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 diesel smoke, welding smoke, grinding/woodworking dust and oil mist 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. Hughes reports the 5-stage is also effective against Covid-19.

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 30,000 cubic ft. of air. For



larger shops simply add more units. It sells for \$4,390 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 \$3,990. The Air-Vac M-30 Standard 2-stage is available for \$2,399. The compact M-11UV 5-Stage sells for \$1,990. The M-25 Air-Vac is also available.

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Reader Inquiry No. 33

Hydraulic System Added To D-19 Allis

"The D-19 Allis I bought for a loader tractor didn't have live hydraulic power, so I built a system myself, and it works really well," says Robert Bauer of Hastings, Minn. Bauer mounted a 17-gpm hydraulic motor to the front of the tractor, securing it with a large metal plate along with brackets and support braces from a Deere 7700 combine. The motor is connected to the output shaft on the front of the engine, so it operates continuously when the engine is running.

High-pressure hydraulic hoses run from the motor to control valves mounted inside the fender on the tractor frame below the left side of the seat. The supply hose runs to a reservoir inside the left upright on the loader frame.

Bauer says, "I put long handles on the two control valves so I can easily reach them from the tractor seat. One of the valves gives me continuous dual-acting power on the lift arms, and the other does the same for the tilt cylinders."

Bauer reconfigured the loader for his D-19 from a model originally made for a WD-45. He extended the loader frame by welding pieces of 1/2 by 2-1/2-in. angle iron to the axle mounting arms. He also added a filter system to the oil reservoir and welded steps

from Deere 20 series tractors to both of the mounting arms for easier access to the tractor seat.

"I was impressed with the loader's bucket because somebody way overbuilt it," Bauer says. "It's made of 3/8-in. plate steel with 1/2-in. channel iron mounting brackets for the lift arms and tilt cylinders. It has 1/2-in. thick skid plates, but no leveling gauge, so I made one of those out of 1/2-in. steel rod. As the bucket tilts, the gauge slides through a sleeve and when the white end shows, the bucket is level. It makes the bucket a lot easier to operate."

Bauer says the 60-year-old D-19 runs great, and by adding the hydraulic system, it's now comparable to a tractor 25 years newer. The only mechanical change he made was installing a smaller and more efficient alternator, replacing a much larger one where a previous owner had to cut away part of the protective cowling to allow room for the pulley to operate freely. "It's a good runner and a hard worker around the farm now," Bauer says.

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Robert Bauer installed a 17-gpm hydraulic pump on the front of his D-19 Allis to provide continuous oil flow for his mounted loader. Controls are located to the left and below the tractor seat.

