

# 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 almost 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 \$3,580 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 \$3,180. 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 36).

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**Reader Inquiry No. 62**

## 60,000-Lb. Twin Cylinder Lift Jack

Farm equipment keeps getting bigger and so do Emerson Jacks. The company's new 60,000-lb. twin cylinder air-over-hydraulic lift is a far cry from the car bumper jacks the company first made in 1960, says founder Fran Voss.

"We went entirely to heavy jacks because tractors, combines and other equipment were getting so much bigger," says Voss. "The new SC-60, with its 16 1/4-in. starting height, is designed for farm tractors, combines and sprayers. With a combination of the optional lift bars and the 8-in. stroke, the lift pad can reach a maximum height of 90 1/2 in."

The company makes a wide variety of wheel jacks, bottle jacks, ramps and more, much of it for tire shops. The farm service jacks are specially designed for challenging conditions. Hydraulic cylinders are completely enclosed, and air-over-hydraulic pressure ensures maximum load with a smooth lift.

Air-powered jacks require high-pressure compressors. With air-over-hydraulic, only 110 lbs. of pressure is required to achieve 10,000 psi. The air-powered motor drives a

hydraulic piston back and forth to provide hydraulic pressure for the lift.

The model 15 has a lift capacity of 30,000 lbs., and the model 25 has a capacity of 50,000 lbs. Both are powered by Emerson's own air-over-hydraulic pump with turn-valve control.

"When we went to the SC-60, we went with a different pump in order to add a foot control valve option," says Voss. "The foot control and pump can be removed from the base, allowing the operator to raise and lower the jack without being under the machine."

The SC-60 comes with a single height adjustable lift bar. Two optional lift bars are available, one that can also be used by itself and the other to be used in combination with the first two for even greater heights.

"The Lift Bars are made from high stress steel," says Voss. "With the heights they extend to and the weight they carry, regular steel would bend like a pretzel."

In addition to high stress steel, the SC-60 is designed for stability. Steel tubes 1/4 in. thick ride over the cylinders to guide them and shield them from the elements. The lift



**Emerson's 60,000-lb. twin cylinder air-over-hydraulic lift is designed to handle today's big farm equipment.**

pad/bars are centered between the cylinders for optimal load balance.

The SC-60 with a single lift bar is priced at \$2,195.

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