

Industrial Vacuum Solutions

# AbVac Portable Vacuum Recovery



# ABVAC PORTABLE VACUUM RECOVERY

## Portable, safe recovery of various materials

The AbVac will help your company become compliant with the U.S. Department of Labor's OSHA rule on occupational exposure to respirable crystalline silica.

The AbVac is an electric-powered suction unit mounted onto a rigid stand equipped with retractable legs. The unit is designed for the collection of anything from dust up to 2" debris into a bulk bag and is ideal for both mobile use and for fixed installations.

The retractable legs make it easy to move around and they allow the discharge outlet height to be adjusted to fit any size bulk bag. Its transportability means that the unit is mostly used as a free-standing suction unit with the connection of a 3" or 4" hose. However, it is also suitable for fixed installations connected to a fixed installed pipe system with multiple suction outlets.



## Optimal Solution

The AbVac requires no compressed air and offers huge airflow per HP. The unit's high suction capacity, together with its flexible discharge system, makes it very useful for a wide range of clean-up applications.

Due to its flexibility, the AbVac unit gets access to most areas where cleaning needs to be carried out, increasing material recovery rates usually limited by long runs of hose. The unit is easily maneuvered using a standard forklift truck or crane.

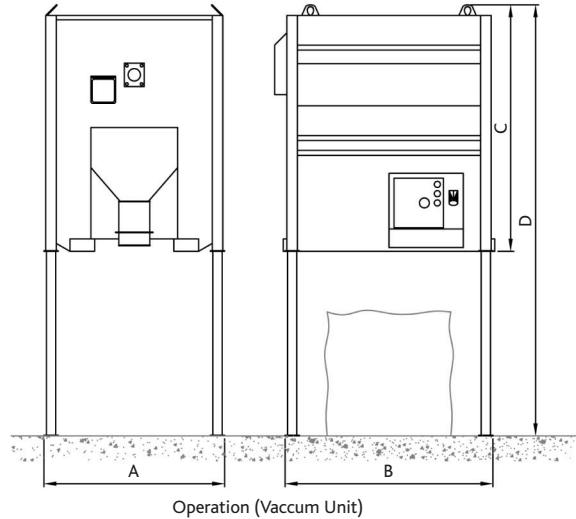
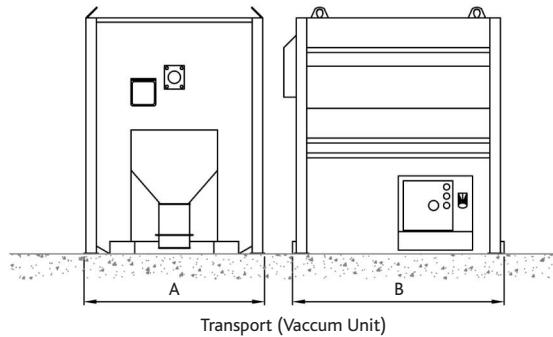
The AbVac unit is also much quicker and much safer than the back-breaking work of recovering material manually and can significantly reduce labor costs.

## Why AbVac?

- The AbVac will help your company become compliant with the U.S. Department of Labor's OSHA rule on occupational exposure to respirable crystalline silica.
- A robust unit for temporary mobile use.
- Automatic bulk bag filling of collected material.
- Filter system for dry and moist material.
- Automatic ATM filter cleaning system, without compressed air.
- Complete start/stop and controls system.
- Compact design and retractable legs offer maximum transportability.
- Can be placed in the exact location needed using a forklift.
- Easy height adjustment to suit bulk bags of various sizes.
- Improved health and safety and lower labor costs.
- Various options of safety filters, including HEPA filters.

# ABVAC PORTABLE VACUUM RECOVERY

Dimensions	(mm/in)
A	1,430/56
B	1,680/66
C	1,990/78
D	3,390/133



## Operation

The vacuumed material is first separated in a specially designed fall chamber hopper with inlet wear protection. In this section all heavier and/or larger material will fall under gravity into the bottom of the hopper. From this section the air stream will continue to the main filter system where the remaining fine airborne dust will be separated. Collected material from both the above sections is commonly collected in the conical hopper.

Discharge of material is made via the automatically operated balance valve at the bottom of the hopper. Discharge is executed parallel to each filter cleaning sequence, which normally takes place every 30 minutes. Filter cleaning is automatic and executed by a filter cleaning valve (ATM) located between the filter and the vacuum pump. When this valve is activated and opens, a counter flow of air is sucked in backwards through the filter bags, thus cleaning all filter bags simultaneously in a very short period. Thereafter the valve is closed again.

Cleaning intervals are normally every 30 minutes, and last for approximately 20 seconds, after which, full vacuum is restored. This valve also ensures that when the unit is started, it starts unloaded and vacuum load is introduced approximately 10 seconds after Star/Delta sequence is ended. All functions for the operation of the unit are controlled from the built-in electrical panel.

Available with a wide range of flexible hoses, tools and extensions.

## WHY AIRBLAST AFC?

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# ABVAC PORTABLE VACUUM RECOVERY UTILIZED IN A FOUNDRY

## Modern day environmental responsibilities

Airblast AFC has recently installed an AbVac unit in a foundry to help with the safe clean-up of sand and dust generated by the casting process. One of the foundry's specialist sectors is the railway industry, and specifically, the Heritage Railway Companies; if a historic steam engine needs a new chimney, this is the company that can make it.

Running a modern-day foundry brings with it all sorts of new responsibilities, and these now include achieving a high level of housekeeping to comply with OSHA and environmental requirements. Local authority inspections are regular and thorough to ensure that, among other things, dust from the casting process is controlled and removed off site.

Ian Reid is responsible for housekeeping and he realized previous practices of using men, brooms and brushes were insufficient if the company was to achieve a high standard for the inspectors. So, he contacted Airblast AFC and purchased an AbVac machine.

## The all-enclosed material recovery and handling system

The Airblast AFC AbVac is a powerful, yet compact self-contained unit that quickly and effectively collects and stores waste material from dust to 2" debris. The machine is fitted with forklift sleeves so it can easily be transported to any area that needs attention and needs only a standard 60-amp 3 phase power supply, or independent diesel generator. The AbVac includes an exceptional filter assembly that keeps dust contained, providing a clean and safe working environment.



## "It's a fine machine"

Used every day at Coventry Castings for several hours at a time, the AbVac easily handled all the accumulated dirt and dust around the shop floors. With nozzles and extensions, they found it particularly effective at getting to all the awkward places where dust accumulates. Ian Reid: *"The AbVac's a fine machine, and it worked without issue every day. It helped us make a much better job of cleaning up around the reclamation and shot blasting equipment, and instead of doing things the hard way with brooms, brushes, shovels and buckets, it was an easy operation to suck up all the castings dust into the bag, and have it removed off site."*

## Faster, safer and fully enclosed collection and removal

All waste material is efficiently collected directly into the AbVac's integral hopper. Once the hopper is full the debris is discharged directly into a bulk bag of your choice that can then be safely taken to wherever the debris needs to be disposed of or recycled. Using shovels and brooms to remove dust and debris is time-consuming and back-breaking, and potentially hazardous if your team is dealing with harmful dusts. Operators enjoy using the AbVac because they can effortlessly clean up in minutes what can often take days when done manually. If the material that needs to be recovered is expensive, using an Airblast AFC AbVac can really pay dividends.

Ian Reid: *"It's essential for Coventry Castings to have the permit to operate, and in turn that means we must achieve high standards of housekeeping to pass the regular inspections. The AbVac is the ideal tool to help us do that and we'll be using it in the future to make sure Coventry Castings maintains both high housekeeping standards and its reputation for being a responsible and professional business."*

Getting an AbVac on site ultimately saves time and money and provides better housekeeping and higher standards of health and safety. See for yourself by calling us today to get more information.



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