

BLASTONE

20,000-28,000 CFM MOBILE DUST COLLECTOR



BLAST-ONE MOBILE DUST COLLECTORS

Blast-One Mobile Dust Collectors are available from 6,000 cfm to 100,000 cfm. Blast-One operates a large fleet of Dust Collectors and we manufacture our own units to suit. Obviously, because we own and operate our own units we build them to last!

They have been designed to look good, be easy to transport, be easy to use and require low maintenance. Units are powered by diesel engines or optional electric motors.

APPLICATIONS

Dust laden air travels down the ductwork and enters into the dirty air inlet plenum at the rear of the Dust Collector. Here the heavier particles drop out of the air stream.

The air is then drawn through a large bank of high efficiency filter cartridges where the dust is deposited on the outside of the filter cartridges. Filtered air passes through to the clean air plenum and passes through the fan blower to atmosphere.

The cake of dust on the cartridges is dislodged continuously by an automatic reverse pulse jet. Dust drops into the hopper of the collector and is transferred by a screw conveyor to a conveniently located dust outlet for easy transfer to a receptacle for disposal.

20,000-28,000 CFM DUST COLLECTOR SPECIFICATIONS

Filtration	36 x High efficiency cartridges
Filter cleaning	Timed cycle reverse air pulse
Air inlets	Up to four 20" duct inlets
Air-to-Cloth Ratio	2.46:1 at 20,000 cfm
Air Flow	20,000 cfm @ 16" w.g. 28,000 cfm @ 12" w.g.
Filter Media	8,136 ft2 Ultra-Filtration Media
Efficiency	99.99% at 0.5 micron particle
Engine	90HP Kohler Diesel Tier 4 Final
Fan	Backwards inclined high pressure fan
Dimension	292" L x 96" W x 125" H
Finish	High quality polyurethane top coat

KEY FEATURES

EASY FILTER ACCESS

Ever had to replace filters on a Dust Collector? It's a tough job right? Dirty filters are heavy, dusty, dirty... some Dust Collectors make it even worse by making you climb on top of the dust collector to open an access door and have to vertically lift these filters onto the top of the unit. The poor mechanic!

Blast-One has a very maintenance friendly design: all filters are accessed through the side of the unit – most of them from the ground level. The filters glide easily out of the unit and new ones slide right back in.

HIGH PRESSURE FAN

Do you ever need to run long lengths of duct hose, sometimes over 100ft? It is important that the Dust Collector fan is engineered to be able to maintain high capacity whilst running long ducts. A high pressure fan does this. Many Dust Collector manufacturers over-rate their units.

CONTROL BOARDS

Control boards are provided for the engine management system and reverse pulse control.

INTERNAL FILTER SPACING

For ease of maintenance, filter replacement and filter life – Blast-One Dust Collectors have an extra 30% space between the filters than other leading brand Dust Collectors which means far better dust release leading to longer filter life.

ULTRA FILTRATION FILTERS

Filters are designed to capture what the eye can't see, collecting 99.99% of air-borne particles over 0.5 microns. Suitable for lead containment, these cartridges last twice as long as the other cartridges on the market today.

SMART REVERSE PULSE

To ensure the filters are cleaned consistently, all Blast-One Dust Collectors utilize a compressed air, reverse pulse blast to clean the dust cake from the filter cartridges. These are operated automatically when the unit is running.

HYDRAULIC WASTE DUST AUGER

The unloading system consists an auger powered by a hydraulic motor. A waste receptacle is fitted air-tight to the discharge so the auger can discharge continuously. Cheaply manufactured dust collectors have air powered augers which are serious maintenance headaches!

OPTIONS

BI-POWERED ENGINE (DIESEL/ELECTRIC)

Some job sites are different to others. Contractors know that they can save a lot of money when the job-site has power available. That is why Blast-One offers a bi-powered Dust Collector. Run it on plant power, generator power, or use the inbuilt diesel engine – your job, your choice.

SKID BASE

The most cost effective option for a mobile dust collector is to mount it on a skid base. The Dust Collector can either be moved around using a large yard forklift, or craned on and off a truck. This option is good for projects which have long durations and the unit isn't required to move around onsite much at all. The Skid has fork pockets, rigging mounts and extendable/collapsible legs to make transportation easy.

YARD TOWABLE TRAILER

The next step up in mobility – if you have a long project duration (2+ months), the Yard Towable trailer gives the ultimate site portability. Whilst it needs to be loaded on a trailer to be delivered to the site, once onsite, it can be moved easily, as required. The ultra-heavy duty wheels & axels will last you many years of hard service.

HIGHWAY TOWABLE TRAILER

The ultimate in mobility. Perfect for projects that are short in duration (under 2 months). The highway towable trailer means that the dust collection system and power/fan unit are all mounted on a highway certified trailer meaning that the unit can be moved anywhere at any time.

ENGINE CANOPY

The base dust collector has an engine which is not enclosed. Some customers prefer to have the diesel engine enclosed within a canopy for security, and this is a simple add on module that Blast-One can provide.

ACOUSTIC ENGINE CANOPY AND FAN ATTENUATOR

For the contractors who have to do work in noise sensitive environments, Blast-One can provide a full sound attenuation enclosure around the diesel engine and fan.

ACOUSTIC LINED FILTER HOUSING AND PULSE VALVES

As a further option to shrouding the engine and fan with an acoustic canopy, if the ultimate quietness is required (you're right in a residential neighborhood and doing work at night time), the ultimate acoustic package is to line the filter housing and pulsevalves with acoustic lining. This reduces the operating noise to below 69 dB at 50 feet.

ECO-CLEAN™ ON-DEMAND CARTRIDGE CLEANING

Upgrade the filter cartridge cleaning system to a system that only pulses when it needs to. This increases the filter life and reduces compressed air requirements. The system monitors the filter cleanliness and only pulses the filters when required.

ULTRA-WEB II FILTER CARTRIDGES

For the ultimate filter life, get your dust collector with Ultra-Web II filters. These Teflon lined filter cartridges will last up to 70% longer than the standard cartridges supplied in the base dust collector.

