

Blastrite (Pty) Ltd

P.O. Box 5515
 Cape Town
 South Africa
 Tel. : +27 21 417 1700
 Fax. : +27 21 425 2341
 E-mail : sales@blastrite.com

Commercial Information

SURFACE PREPARATION INNOVATION

Version Date: January 2011

Title: Mobile dust collectors

COMPACT AND MOBILE DUST COLLECTORS

Blastrite offers a complete range of mobile filter units - cartridge or bag type - for use on shipyards, bridges and other blast cleaning operations.

Our Airblast mobile dust collection systems are compact, flexible and well-designed, and operators can choose between our professional standard systems, or custom-designed systems specifically for the job at hand.



The most popular systems are the AB6, AB12 and AB20 models, suitable respectively to handle 6,000, 12,000, 17,300 and 20,000 cubic metres per hour. With 99.9% filter percentages, and maximum dust emissions of <math><3 \text{ mg/nm}^3</math>, these machines lead the market.

Technical information

TYPE	AB6	AB12	AB20
Exhaust capacity	6,000 m ³ /h	12,000 m ³ /h	17,300 m ³ /h
Total pressure	2,000 Pa	2,000 Pa	3,500 Pa
Motor power	5.5 kW	11 kW	30 kW
Voltage	400/690 V 50	400/690 V 50	400/690 V 50
Valves	6 pcs.	6 pcs.	10 pcs.
Pulsation pressure	4 Bar	4 Bar	4 Bar
Hose connection <i>or</i>	1 x Ø 300 mm	1 x Ø 400 mm	1 x Ø 500 mm 3 x Ø 300 mm
Max hose length	60 m	80 m	100 m

SURFACE PREPARATION INNOVATION

Portable/Stationary Abrasive Blast Equipment - Nozzles - Nozzle Holders - Hoses - Couplings - Lighting
 Wetblast Equipment - High Pressure Waterjetting - Personal Protection - Blast Cabinets - Dehumidifiers
 Blastrooms Vacuum Blast/Recovery Equipment - Portable/Stationary Wheelblast Equipment
 Pipe Cleaning/Coating - Air Treatment - Mobile Dust Collectors - Media - Paintspray Equipment
 Plural Component - Measuring Instruments

Operating principles

Dust laden air enters through the inlet plenum of the collector, where heavy particles fall immediately into the hopper. As the air flows through the filter cartridges, dust is deposited on the outside of the filtering media. The filter cartridges are cleaned automatically and continually without interrupting the operation of the dust collector. An adjustable timer controls the cycle-time.

Solenoid valves introduce jets of high-pressure air into each pair of cartridges in turn, through the venture opening above each cartridge. The resulting reverse airflow cleans the filter cartridges. Dust removed from the filter surface settles into the hopper. As each pair of filter cartridges is cleaned in succession, the remaining continue operating, ensuring that extremely high dust loading is handled easily.

Dust collector systems also come standard with an electrical panel with automatic switch controllers, main switch, signalling lamps and control buttons for 1 ventilator and control unit for cartridge cleaning valves.

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