

MOBILE DUST COLLECTORS

DC-6, DC-12, DC-20



AIRBLAST



DC-20

Airblast Mobile Dust Collectors

Compact, flexible and well designed. These are the main features of the Airblast mobile dust collection systems, either standard or designed specifically for the job on hand.

A complete range of easy-to-transport filter units, cartridge type for use on shipyards, bridges or for many other blast cleaning operations.

Most popular sizes are suitable for 6.000, 12.000 and 20.000 cubic meters per hour.

Operating principle

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 venturi 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 stay in operation. Extremely high dust loading is handled easily.

Further complete with 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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	DC-6	DC-12	DC-20
Exhaust capacity (m ³ /hr)	6000	12000	20000
Static pressure (Pa)	2000	2000	3000
Electric motor (kW) (Volt) (Phase) (Hz)	5,5 400 3 50	11 400 3 50	30 400 3 50
Filter cartridges (pcs.)	6	12	20
Filter area (m ²)	93,6	187,2	312
Filter material	polyester fabric Type 806	polyester fabric Type 806	polyester fabric Type 806
Filter percentage (%)	99,9	99,9	99,9
Max. dust emission (mg/nm ³)	< 3	< 3	< 3
Collecting bags (pcs.)	2	4	4
Connection (Ø mm)	1 x 300	2 x 300 w/regulating valve	3 x 300 w/regulating valve
Cleaning air pressure	continuous by compressed air max. 5 bar		
Nr. of solenoid valves	6 (1" G)	4 (1½" G)	8 (1½" G)
Pulsation pressure (bar)	± 4	± 5	± 5
Cycle time	adjustable		
Sequence	1 cartridge simultaneous	3 cartridges simultaneous	2 or 3 cartridges simultaneous
Inspection hatch	1 pc.	2 pcs.	1 pc.
Weight	± 900	± 1260	± 2300
Dimensions Total length (mm) Width (mm) Height (mm)	2300 1150 2150	3350 2050 2350	4500 2000 2400

