ABDI-1000

Vacuum Injection Blast Cabinet

AIRBLAST

The Airblast Vacuum Injection Cabinets are designed for manual or automatic shotblasting of all sorts of smaller items. The general jobs done in these cabinets are delicate or lighter work, like: rust removal, cleaning, slagging, frosting, chipping and polishing.

The vacuum injection cabinets are systems with a continuous circulation system for the abrasives and have high efficiency build in filter system for continuous operation.

The hand-held blastgun consits of an air jet and the nozzle. This gun is usually referred to as the suction, or vacuum injection gun. Airblast offers several nozzle sizes to accommodate varying production rates as well as compressed air consumption.

The dust filterinstallation is constructed behind the working space built with two cartridge filters with automatic pulsing system.

The back- and sidewall and the door of the shotblasting space is completely covered with 3mm rubber.

Dimensions			Working area			Door		
Height	:	2.400 mm	Height	:	1.000 mm	Height	:	850 mm
Width	:	1.000 mm	Width	:	1.000 mm	Width	:	700 mm
Depth	:	1.700 mm	Depth	:	1.000 mm			

Specifications shotblasting cabine
– revolving door (positioned at the rightside of the cabine) with safety control switch.
– lighting 4x18 Watt.
– 3 perforated grids in working area.
– 1 window exchangeable.
– 1 window securit.
– 2 flexible rubber openings.
– build-in controlpanel with main switch, control safety switches for exhauster and lighting.
– 1 nozzle holder with 8mm Borium Carbid nozzle.
– blasthose which is guided through the roof of the machine.
– reducing valve (0 - 10 bar) operated by a pilot valve with manometer on the front of the machine.
– pneumatic footpedal.

Cartridge dustfilter Type PF 2, build-in type with exhauster on the roof

Technical specification

Exhaust capacity	:	600 m³/h
Motor output	:	2,4 kW
Electric motor	:	230/400 V, 3 Phase, 50 Hz
Filter cartridges	:	2 pieces
Filter area	:	18 m²
Filter material	:	Polyester fabric
Filter percentage	:	99,9 %
Max. dust emission	:	> 3 mg/nm³
Dust collecting bags	:	1 piece
Cleaning	:	continuous by compr. air → max. 5 bar
Pulse time	:	adjustable

Operating principle
Dust particles enters through the inlet plenum of the collector, where heavy particles fall into the collecting bag which is placed under the shotblasting funnel. As the air flows through the filtercartridges, dust is deposited on the outside of the filtering media. The filtercartridges are cleaned automatically and continually without interrupting the operation of the dustcollector. An adjustable timer controls the pulse 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 filtercartridges. Dust removed from the filtersurface settles into the shotblasting funnel. As each pair of filtercartridges is cleaned in succession, the remaining stay in operation.

Airblast B.V. • **The Art of Powerful Cleaning...**
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