

# DI1000

## Vacuum Injection Blast Cabinet



The Sybrandy Vacuum Injection Cabinets are designed for rustremoval, cleaning, slagging, frosting, chipping and polishing. The unit is especially designed for manual shotblasting of all sorts of smaller items.

The dust filter installation is constructed behind the working space and provided with a separator beforehand. The back- and sidewall and the door of the shotblasting space is completely covered with 3mm rubber.

The installation is constructed of 3mm steelplate and finished with a coating layer in the colour grey.

### Dimensions

Height : 2.400 mm  
Width : 1.000 mm  
Depth : 1.700 mm

### Working area

Height : 1.000 mm  
Width : 1.000 mm  
Depth : 1.000 mm

### Door

Height : 850 mm  
Width : 700 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 8 mm 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 m <sup>3</sup> /h
Motor output	: 0,75kW
Electric motor	: 230/400 V, 3 Phase, 50 Hz
Filter cartridges	: 2 pieces
Filter area	: 18 m <sup>2</sup>
Filter material	: Polyester fabric
Filter percentage	: 99,9 %
Max. dust emission	: > 3 mg/nm <sup>3</sup>
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 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 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 filter cartridges. Dust removed from the filter surface settles into the shotblasting funnel. As each pair of filter cartridges is cleaned in succession, the remainder stay in operation.