THE SURFACE FINISHING EQUIPMENT GROUP

SALES – SERVICE - HIRE
TRAINING – INSTALLATION

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- Shot Blasting Equipment
- Paint Spraying Equipment
- Powder Coating Equipment
- Fixed Extraction Booths
- Mobile Dust Extraction
- Personal Protection Equipment
- Shot Blasting Abrasives
- Spares and Consumables
- Plural Component Systems

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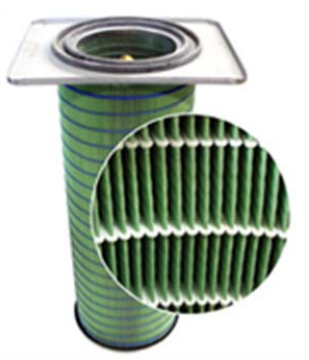
- Complete Finishing Plants
- Design engineers and CAD
- Industrial Ovens
- Conveyors
- Pre-treatment systems
- Electroplating Systems

Surface Finishing Equipment Group

FIXED DUST EXTRACTORS with Reverse Air Jet Cartridge Cleaning System



Fixed Dust Extractor (left) and Pleated Cartridge (above)

The Surface Finishing Equipment Dust Extraction units are designed for the arduous conditions required for a blast room application. The reverse air jet cartridge filter unit will be sized to maintain the required air flow through the room to remove the dust and maintain visibility. It also maintains the correct filtration efficiency through the automatic cartridge pulse cleaning system.

Extractor Housing

The dust extractor housing is fabricated from 3mm mild steel plate and contains the cartridge elements. The clean air chamber is fitted at one side of the reverse air jet unit. It includes the reverse air jet pulse system with an extraction fan that keeps 30 MPM face velocity within the enclosure.

The bottom sides of the reverse air jet unit have a slope angle of approx. 60 Deg. to prevent powder build up. Within one side of this angle, the cartridge elements can be withdrawn via quick release clamps for each double 'ultra web' cartridge unit.

Dust collection bins are attached to the bottom of the unit and these can be fitted with a bin balance system to enable the use of plastic bag liners which aid the easy and mess free removal of waste dust.

Fan Unit

A high efficiency centrifugal fan generates the suction pressure of 10 in H^2O which is sufficient to overcome the pressure drop across the cartridges, inlet and ducting to the blast room. The fan has a flat, backward – inclined impeller and a fan curve that prevents a minimum static pressure drop from affecting the volume performance. The fan is normally mounted on top of the extractor housing or can be floor mounted for larger units.

The fan outlet includes an expansion duct lined with sound insulation material to reduce the fan noise level.

A magnehelic gauge is fitted to indicate the static pressure drop across the cartridge filters and visually indicate the condition of the cartridge elements.

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MODELS AND SPECIFICATIONS						
UNIT SIZE cfm	Fan Motor Size Kw	Inlet size (diameter)	Filter Area	No of cartridges	Cartridge diameter x length	Fan pressure
3,000	7.5 kw	300mm	81m^2	6	325 x 660	10" H^{2}O
4,000	11 kw	355mm	108m^2	8	325 x 660	10" H^{2}O
5,000	11 kw	400mm	135m^2	10	325 x 660	10" H^{2}O
6,000	15 kw	450mm	162m^2	12	325 x 660	10" H^{2}O
8,000	15 kw	500mm	216m^2	16	325 x 660	10" H^{2}O
10,000	22 kw	560mm	380m^2	20	325 x 915	10" H^{2}O
12,000	18.5 kw	630mm	304m^2	16	325 x 915	10" H^{2}O
15,000	30 kw	710mm	380m^2	20	325 x 915	10" H^{2}O

Cartridges

Each cartridge filter consists of a number of Camfil Hemipleat^{TM} high efficiency cartridges providing an air : cloth ratio of approx. 2:1; they are mounted on rod type supports within the unit. The top part of the elements provide a seal into the clean air plenum and the opposite ends of the element have a quick release locking mechanism.

Key benefits are :-

- Greater media utilisation and more effective filtration, provides enhanced performance and longer service life.
- Filtration efficiency of 99.99% efficiency on 0.5 micron and larger particles by weight.
- The new PolyTech^{TM} media is the most advanced pulse cleaned media ever made, and now comes standard with silicone impregnation for high humidity resistance.
- Continuous one piece gasket provides rigidity and eliminates leakage.
- The Hemipleat^{TM} separator bead opens up the pleats uniformly. Allowing more effective cleaning, low pressure drop and long life.

The cartridge elements are individually pulsed by compressed air at a minimum pressure of 6 bar. An electronic timer controller controls and adjusts the interval and duration of each pulse. The controller sends a signal to each of the solenoid operated diaphragm valves in turn. Each valve opens for a fraction of a second to create a pulse of air through a high velocity venturi to obtain optimum cleaning of each cartridge element. The pulse valves are mounted on a compressed air manifold to maintain sufficient air pressure.

Note:-
It is important the customer's compressed air is supplied to the Reverse Air Jet Pulse Unit in excess of 6 Bar but not to exceed 7 bar. We cannot be held responsible for replacement cartridge units if this pressure is not maintained.