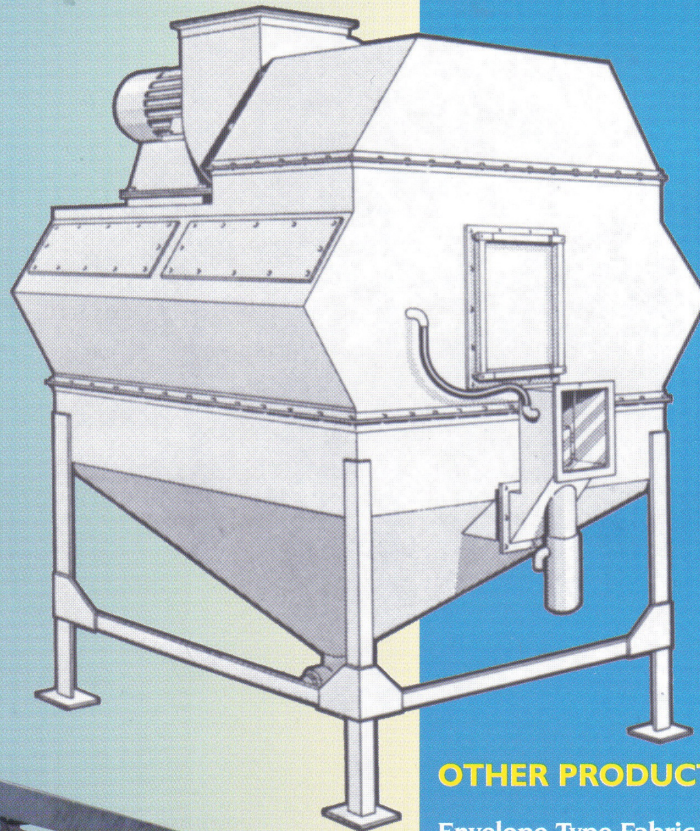


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Wet Dust Arrestors



OTHER PRODUCTS

Envelope Type Fabric Filter Units

Tube Type Fabric Filter Units

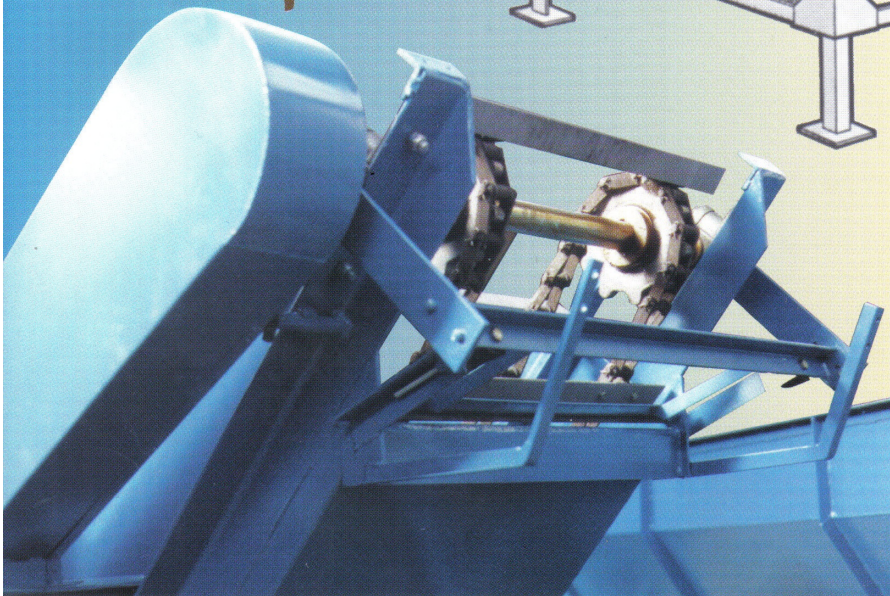
Silo Vent Filters

Weld Fume Extractors

Rotary Valves

Reverse Jet Filters

Mist Elimination



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The separator is a highly efficient wet scrubber type collector made in sizes varying from 1,000 cfm to 20,000 cfm. The basic operating principle is a simple and well proven system utilising the negative pressure of the fan to induce a water spray through the internal scrolls of the wet collector. The result that this gives is a highly efficient water scrubbing system, but without the inherent problems of pumps, pipework or spray nozzles. This means that the unit is relatively self cleaning on many dust applications and requires very little maintenance. In addition the system is very simply engineered to provide good facilities and access for any maintenance and cleaning arrangements required.

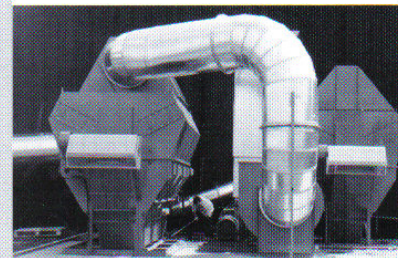
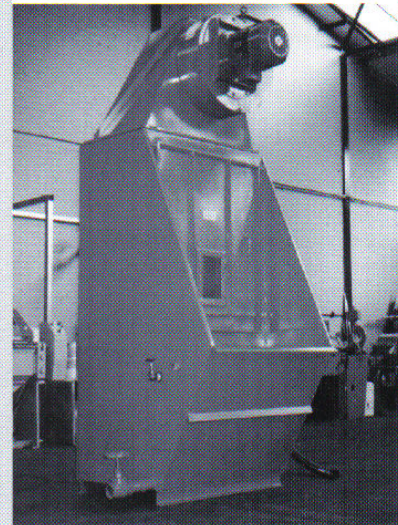
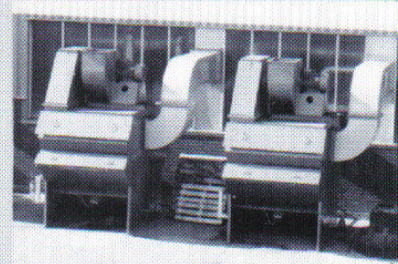
The scrubber cleans the air by driving the dust laden atmosphere into a plenum chamber, then forcing it at high velocity through narrow slots. This picks up water through the heavy turbulence created at the narrow orifice. Centrifugal force is then applied to the air path to induce constant wetting of the dust before it is finally trapped and thrown back to the clean side of the filter for settling.

The control of the system is by a water levelling device which requires very simple setting initially and then no further modification is required. On filling from the start, the system automatically levels to its static/standing level and on initiating start up, dynamic levelling is achieved automatically. This level is then maintained by a trickle overflow system. This retains high performance with a very small loss of water, estimated to be approximately 8 litres per hour but dependent upon temperature, R.H. and other site conditions. The water level box is situated externally on the end casing of the unit and is provided with a sight glass for viewing of the level. This gives the operator a clear indication of the performance of the unit and is very simple to determine the volume of water required to make up after a short time of commissioning.

The units are manufactured from heavy gauge steel with sufficient stiffening to overcome the system pressure required on the arduous duties often encountered with wet collection applications. The specially designed scrolls are constructed such that they can be removed for replacement when required. In the top section of this collector water elimination banks are provided in order to prevent any carry over of moisture to atmosphere. However, we do recommend that these units are fitted outside the building or, alternatively, vented to atmosphere since the discharge is always moist.

OPTIONS

1. Freeze up prevention heaters for outside use, with thermostat control.
2. Explosion doors, anti-spark fans and automatic water level controls for explosive dusts.
3. Optional fan set to suit customers requirements.
4. Special paint finishes or manufacture in alternative materials etc., for corrosive applications.
5. Hand or auto sludge ejection.



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