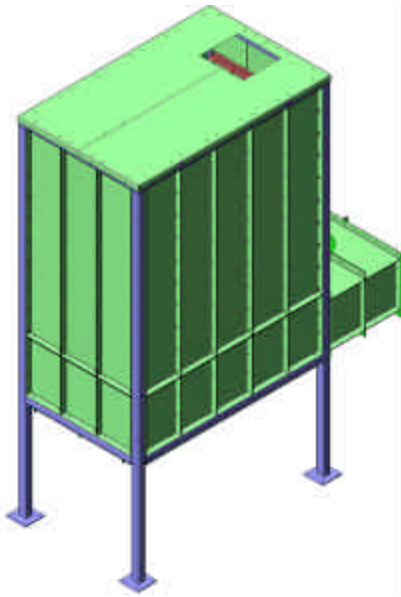


# MacDonald Steel Limited

## Environmental Systems Division

Dust Collector/Filtration Units – Fans – Ducting Systems – Shredders – Hogs – Balers

### Shaker Type Square Units



STBM-4000 Module



STBM-6000 Module

MacDonald Steel Shaker Type Square Units offers the customer a cost effective solution for the flow rate of 4000 to 10 000 cfm. The STBM units offer the customer a small cost effective unit that meets current NFPA requirements for deflagrations.

The unit has a unique expansion chamber to allow the air to slow down and material to fall out of the air stream. By slowing down the air and dropping the material out of the air stream before it reaches the bag, the bag life can be increased.

Explosion venting is on the bottom of the unit to allow the unit to vent down rather than out the side towards walkways.

Our units offer a service door that can be located to suit the customer's needs. The fan which is selected to suit the customer's need can be roof mounted on the unit or beside the unit on the ground to reduce overall height.

Model Number	Filter Media Area ft <sup>2</sup>	Number of Bags	Size 106" x 53"	CFM at 8:1 ATC
STBM-4000	495	60	50.5	3958
STBM-6000	742	90	75.5	5938
STBM-8000	990	120	100.5	7917
STBM-10 000	1237	150	125.5	9896

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### Features

- Automatic cleaning of the filter media by electrically operated mechanical shaker when the flow of air through the system is stopped.
- Available in a wide range of sizes
- Explosion venting is on the bottom of the unit so explosions will not vent directly into the surrounding area.
- Fans are custom designed to suit the customers application
- Conserves energy: reclaims heated/conditioned air.
- Heavy duty construction throughout the system.
- Rod End Bearings on the shaker frame.
- 6" diameter bags for easy material release.

### Standard Equipment

- High Efficiency Backward Curved Exhauster Fan with High Efficiency TEFC Motor
- High Quality Bearings on the Fan Impeller
- Bearing mounted Shaker Frames for long life
- Prewired Automatic Shaker Control Panel to effect the automatic cleaning of the filters whenever the air flow to the unit is stopped.
- Aquastat Thermal Control to allow for automatic shutdown in case of fire and lockout shaker panel.
- Easy Access to filter bags for cleaning or replacing.
- Electronically operated mechanical shaker for periodic cleaning of the filter media
- Heavy Gauge Steel construction through out

### Operation

- Waste particles are drawn pneumatically from production machinery via ducting, entering the primary separation area where the heavier particles slow down and fall to the bottom of the air stream. The conveying air and fine dust moves upward to the filter section where the dust is filtered from the conveying air by the bags and clean air is returned to the plant or atmosphere. Material can then be collected in the bottom of the unit in the barrels.
- Filter media is cleaned periodically by an automatic electrically operated mechanical shaker.
- Filter bags are complete with reinforced cuff and snap-in ring; no tools required for easy servicing.

### Optional Equipment

- A Variety Of Filter Media To Suit The Application
- Silencer For Return Airline
- Pressure Differential Gauge
- Electrical Or Manual Diverter
- Spark Detection And Extinguishing
- Deluge System

### Small Collector System

