

**Sanders Inc.
Motor Generator Filters,
Named as TKE Preferred Vendor By
ThyssenKrupp Elevator.**



Carbon Dust From Brush Wear Is Costing Your Branch Money

Problem:

- A great deal of time in man hours are spent cleaning, due to carbon exhausted from MG sets in the machine rooms.
- Leveling Problems occur if contacts are fouled by carbon dust, causing call backs.
- Carbon Dust short out boards prematurely.
- Customers complaints increase due to carbon dust on carpet and in adjacent HVAC systems.

A Simple Cost Effective Solution to a Complicated Problem

- Motor Generators were designed with a fixed armature and thereby fan speed.
- The internal fixed fan curve did not allow for any restriction.
- Carbon dust is a relatively small particle, emitted in large quantities.
- To eliminate the Circuit Board/Housekeeping problem the carbon must be prevented from entering the air in the machine room (*source capture*).

Motor Generator Filtration System From Sanders.

Solution:

- These Systems were developed using a Cube design to increase the surface area, allowing the air to “*permeate through the media, as if it wasn't even there.*”
- This allows for the use of a high efficiency media, that collects the carbon without restriction.
- No Heat Build Up. All filters operate with minimal increase in MG temperature “*Fully Loaded with carbon dust.*”

Most Filters Last 3 - 6 Months, This is after only 1 Month.

- Simple Installation using Velcro.
- Eliminates Housekeeping Problem.
- Changed on a PM Schedule, when fully loaded, *“Just throw them away”*.



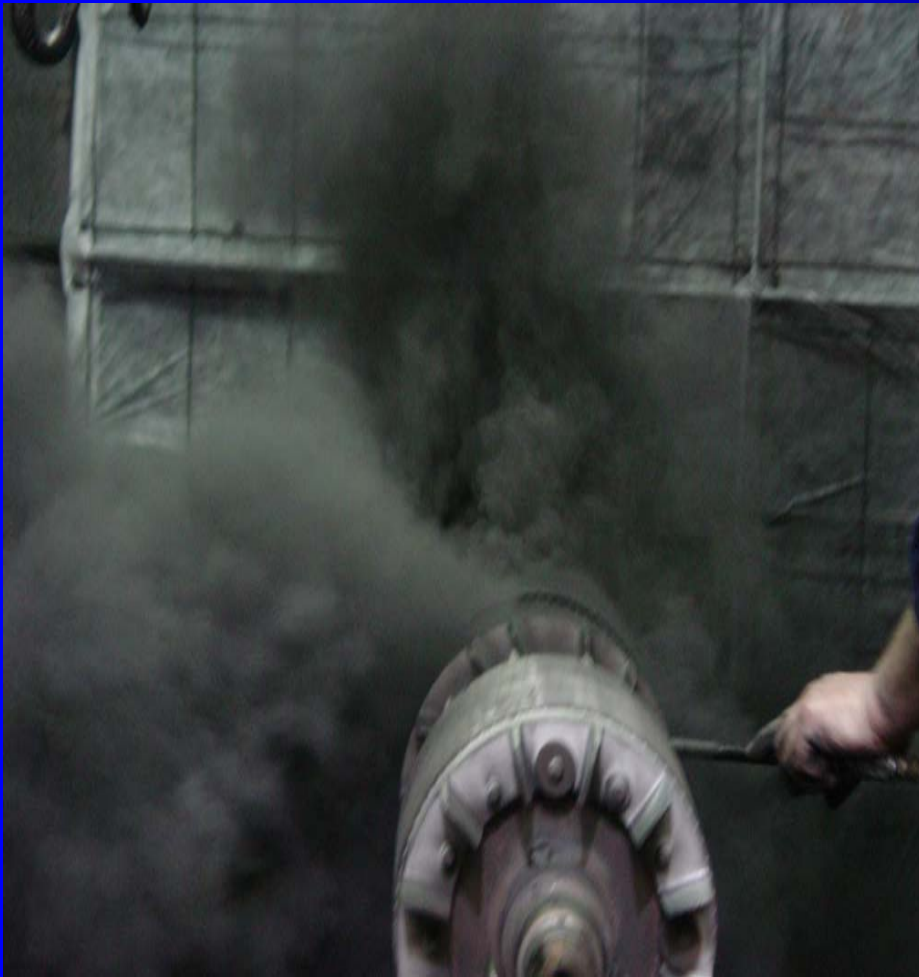
These Systems Eliminate the Carbon Dust Problem:

- **Housekeeping**: These filters eliminate Carbon Dust cleanup, which is expensive in man-hours and will promote customer satisfaction.
- **Call Backs**: Many of the callbacks for circuit board failure and leveling problems are due to shorts or fouling by carbon dust. These Filters Eliminate Washing of Boards due to Carbon Fouling
- **No Heat Build Up**: All filters have been designed to operate with minimal temperature increase fully loaded.
- **Self Extinguishing**: These filters have passed a #302 Automotive Test for Flammability.
- **Complete System**: Sanders Inc. offers 157 different filter systems. Designed specifically for each motor generator frame configuration.

**Simple, Cost Effective Solution,
An Original Equipment Part for Otis,
Recommended by all Electrical Brush Manufacturers**



DECARBONATOR BAGS



- THE CARBON DUST CLOUD CREATED WHEN GENERATORS ARE BLOWN OUT PERMEATES THE ENTIRE MACHINE ROOM.
- SETTLING ON AND IN THE ELECTRICAL COMPONENTS.
- CAUSING EXPENSIVE HOUSEKEEPING, CIRCUIT BOARD FAILURE, CALLBACKS.

DECARBONATOR BAG INSTALLED



- SOLUTION
- SANDERS INC. BLOW-OUT BAGS
- COMPLETELY ELIMINATE all carbon dust from entering the machine room
- INSTALL IN MINUTES
- INEXPENSIVE, can be used up to 5 generators, then just throw away
- AVAILABLE IN 3 SIZES.

CARBON TRAPPED IN BAG



- THIS IS AFTER BLOWING OUT 1 GENERATOR.
- IMPROVED MEG READING. Build up of carbon dust will track electrical current to ground, prematurely shorting out the generator.

CLEAN OTIS 82 WITH NEW FILTER INSTALLED.



- SIMPLE INNEXPENSIVE PREVENTATIVE MAINTAINANCE.
- Your branch will see savings of up to 12 times cost. In reduced Circuit Board Failure, Call-Backs, Housekeeping, Customer Satisfaction.
- The average cost of filters is \$150 per machine room (4 generators) per year.
- If you service 100 generators your cost to filter all these generators would be \$3750 total. The savings to your branch (at 12 times cost), would be \$45,000.
- This does not include the additional savings through the use of the BLOW-OUT BAGS
- Increasing the life of the generators before a rewind is required.

Motor Generator Filters, Blow Out Bags, can be ordered through

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15 COMMERCE WAY
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