

INTAKE FILTERS (BAG-TYPE) FOR AIR COMPRESSOR

COMPRESSOR FILTERS: DEFEATING THE DAMAGE OF DUST

Troublesome dust. It is of genuine concern to all plant operators who maintain compressors. They know premature wear, decreasing efficiency and costly downtime are threatening to any equipment operation that is not well protected from dust.

That was the exact problem facing a large Southeastern cement plant. The situation in its mill room had reached a critical stage. Airborne dust was doing real damage.

Four (4) Rotary Compressors were furnishing air for pneumatic conveying systems that transport finished cement to storage silos from three (3) finish mills. To cope with the abrasive dusty environment, the plant was using impingement-type, oil bath filters to protect the compressors. Unfortunately, the compressors were not getting the protection required. Downtime reached an all-time high.

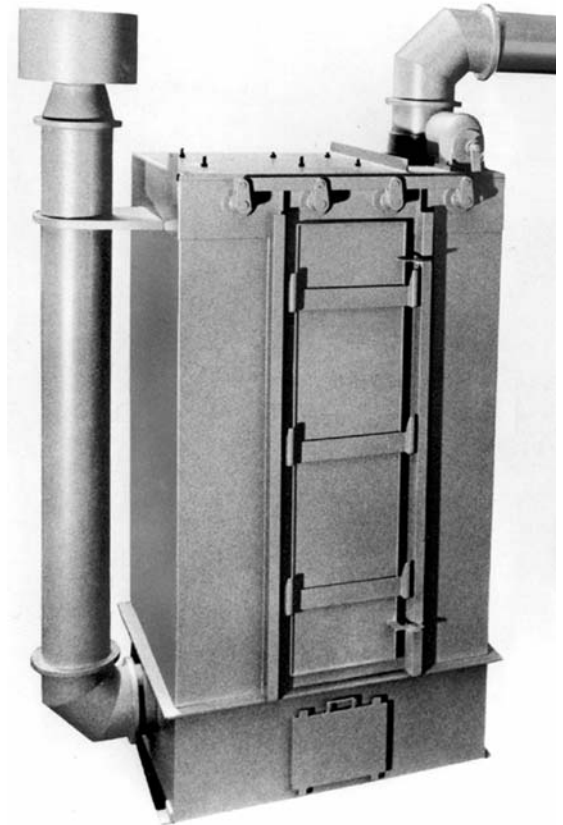
FLSmidth was approached to solve the problem. With its extensive experience in manufacturing both compressors and dust collectors, FLSmidth was able to develop and offer its new Compressor Intake Filter which delivers clean air to any type of compressor.

This new filter traps particles smaller than 1/4 micron. Heavy-duty bags of spun polyester are the filter element. Pre-coating may also be employed to raise filtration efficiency. Each bag has a five (5) inch (125 mm) diameter (48) to furnish a maximum air-to-cloth ratio of ten (10) to one (1), with capacities through 12,000 SCFM (340 cmm).

The four (4) compressor intake filter installed in the cement plant have sixteen (16) bags with 400 square feet (37m²) of cloth area and can handle 4000 SCFM (113 cmm). Each filter serves a separate compressor, although the units can be manifolded for multiple compressor installation. Seven (7) months after the first filter installation, the compressor had never been off the line for repair.

Before your plant runs into real trouble, look into FLSmidth Compressor Intake Filters. They can safeguard your compressors against premature wear and low operating efficiency while eliminating downtime.

All units are pre-engineered and shipped fully assembled for easy customer installation. A descriptive bulletin with full specifications is available on request.



Sizes 0.25 through 4 are equipped with box-type dust chambers.



Sizes 5 through 7 are equipped with hopper bottom dust chambers.