

EVAPORATOR SPIN FILTER



PRODUCT APPLICATION

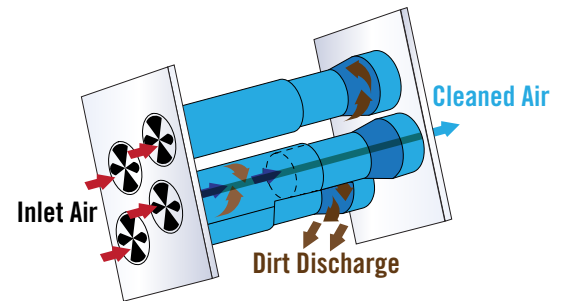
Specific Systems Spin Filter modules are compact, high-density molded polypropelene blocks containing 54 tubes with stationary air spinners. By imparting high radial velocity to the dirty input air, the resulting centrifugal force hurls dirt particles and water to the periphery of the tube. Approximately 90% of the input air passes easily through the clean core at the center of each tube. Water on the surface and dirt concentrated in the 10% periphery air is withdrawn and bled through the slots on each tube. Dirt particles on the walls of the cleaner provide a self-cleaning action, preventing dirt from accumulating in the bleed slots and thus guarding against plugged discharge openings.

PRODUCT DESCRIPTION

Spin Filter modules are manufactured using low-pressure transfer-injection technology, eliminating molded-in stresses common to other injection molding processes. The filters can be built and mounted horizontally or vertically, and are capable of cleaning up to 2000 cfm of air per module at a pressure drop of two to five inches of water. The filters have a dirt removal efficiency of 98% for particles 15 microns (μ) and larger, and 93% for particles 8 μ and larger. Figure 1, below, compares dirt removal efficiency with particle size. Water removal efficiency of the module is 90%. Figure 2 illustrates the efficiency of the module through a wide range of inlet air flows. Figure 3 shows pressure drop of 1.1 inches of water at an air flow of 1000 cfm.

AVAILABLE OPTIONS

Please contact Specific Systems about available options.
– Blow Through Booster Fan Module



Performance Data for Spin Filters

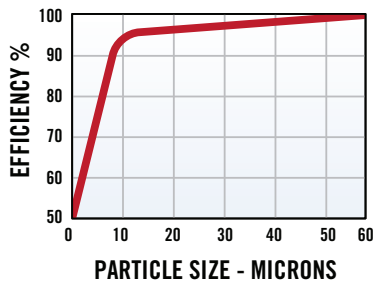


FIGURE 1 - Spin clean dirt removal efficiency at various particle sizes

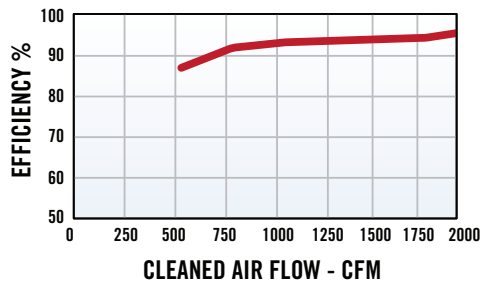


FIGURE 2 - Spin clean efficiency at various inlet flow. (AC Standard Coarse Test Dust with particle sizes from sub-micron to 200 microns)

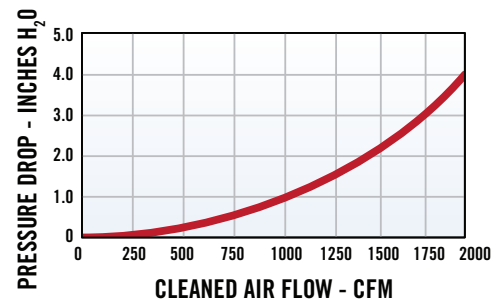


FIGURE 3 - Pressure drop of 1.1 inches of water at 1,000 CFM air flow.