



Sentinel Fan Powered Unit Specifications

GENERAL

1. The fan powered unit shall be manufactured by Filtration Group Inc. the size shall be _____ with an efficiency of _____% at 0.3 μm or _____% at 0.12 μm .
2. Total height of the complete unit (excluding optional accessories) shall be less than 13.00”.
3. The Sentinel fan filter shall be UL Listed (2F82 Air Filter)

PERFORMANCE

The Fan Filter Unit shall meet or exceed the following specifications:

1. Average measured air velocity shall be 90 (± 10) ft/min
2. All measured values shall fall within $\pm 20\%$ of the measured average.
3. The sound level shall be approximately 48dBA at 30 in. from the filter face, with the fan delivering an average air flow velocity of 90 ft/min.
4. Vibration level will not exceed .09 MILS RMS at 90 ft/min.

STANDARD FEATURES/COMPONENTS

1. Construction:
 - The lid shall be constructed of .080 (2.0 mm) aluminum with $\frac{1}{4}$ (6.4 mm)-20 threaded inserts in four corners for suspension.
 - Optional eyebolts shall be available.
 - The filter housing shall be constructed of 0.063 (1.6 mm) inch thick aluminum.
 - Both the fan plenum and filter housing shall have a mill finish (powder coat paint or stainless steel exterior-optional), and be sealed airtight.
 - An air baffle system will be furnished as an integral part of the fan plenum housing.
 - Total weight of the standard (2 ft. x 4 ft.) unit, excluding optional accessories shall be less than 65 lbs.
2. Pre-filter
 - The unit will be furnished with a 16 in. x 23-1/4 in. x $\frac{1}{2}$ in. (406 mm x 590 mm x 13 mm) - 30% (20 PPI) polyurethane foam, washable pre-filter (to be removed with A/C collar option).
3. HEPA Filter
 - Shall be tested in accordance with the latest I.E.S.T. standard.
 - Filter media shall be microglass fiber with hot melt separators
 - The filter face guard shall be epoxy powder coated expanded steel.
4. Fan/Motor
 - The fan/motor will be direct drive; forward curve centrifugal type with permanently lubricated sealed ball bearings.
 - The motor shall be a permanent split capacitor type, rated for continuous duty, furnished with thermal overload protection and a three-speed switch
 - The fan/motor unit shall be capable of delivering 500 ft³/min of air at a filter pressure drop from 0.30 to 0.75 in. W.G., at 90 FPM.