



Clean Air Filter // Quality Tested. Performance Proven.

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Abbreviations / Acronyms

0.3 μ m: Testing range of 0.3 μ m <0.5 μ m
 μ m: Micron
ASABE: American Society of Agricultural and Biological Engineers
Cat: Category
CO₂: Carbon Dioxide
C p/d: Cab pressure differential (inside vs outside), to be used for flow rate measurement for filter life
DPG: Differential Pressure Gage
EN15695: European Standard
Fume: Particulate and Vapor
GLP: Good Lab Procedure
LD: Lethal Dose
LD₅₀: One way to measure the short-term poisoning potential (acute toxicity) of a material
MPPS: Most Penetrating Particle Size
N/A: Non-Applicable
NIOSH: National Institute of Occupational Safety Health
O₂: Oxygen
OPC: Optical Particle Counter
OV: Organic Vapor
PAP: Powered Air Purifier
p/d: Pressure Drop, across the filter
PPM: Parts Per Million
QUALEC: Quantifying Unfiltered Air Leakage in Enclosed Cabs (vapor test)
TBV: To Be Validated
V: Vapor
Wo/O: Without Operator

Other Information

Why 0.3 μ m range, see CAF silica report, there is 3.44% more margin of error using 0.5 μ m vs 0.3 μ m
There is a 3.852% margin of error using 0.5 μ m in testing a cab, Test - Silica, Sept 23, 2019*^c
There is less than 0.5% margin of error using 0.3 μ m vs vapor when testing a cab. Test - 15 Oct 2015
There is no correlation between cab pressure and protection levels
Cab pressure verses protection levels are floating/moving targets!
If the cab is not equipped with a DPG, a maintenance schedule is required.
No data on electrostatic media TBV
Powered precleaning devices (fan before filter) need tested separately and as one unit. TBV
Flow rate measurement, with a hot wire, correlated to positive cab pressure, to determine filter life
Use GLP on all testing
All testing tolerance \pm 2% unless specified otherwise
HVAC must be on.
You cannot write a standard for the exceptions, equivalency is the necessity to cover exceptions. Equivalency is accepted with responsibility on requester.
Engineering control – Wo/O

*^a Corrected ASABE S613

*^b Test protocol @ 0.3 μ m – must demonstrate worst case scenario

*^c <https://static1.squarespace.com/static/54e3c797e4b002fddcd1279d/t/5dfea51f27eac52da17ed048/1576969504343/OSHA+Silica+RFI.pdf>

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