



Clean Air Filter // *Quality Tested. Performance Proven.*

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FIT FACTOR

A “respirator fit test” tests the seal between the respirator’s facepiece and your face for leaks to reduce exposure to hazardous chemicals or substances.

https://www.osha.gov/video/respiratory_protection/fittesting_transcript.html

The experts at CAF use this same “Respirator Decision Logic” to determine the protection factor (PF) in a cab or microenvironment.

The FPS units developed and sold by CAF are considered engineering controls providing exceptionally clean air to the enclosure.

FPS recommended installation is to direct the clean air over the HVAC coil to condition it for operator comfort. The motorized fans in the HVAC units have high negative pressure which results in amplified leakages. It is very important that these leaks are sealed.

When we combine these two components, filter efficiency (FPS) and cab leakage (HVAC), a balance between filter efficiency and cab leakage is essential for optimum protection.

With proper installation and cab integrity, the FPS is as effective as a respirator in reducing exposure to harmful vapors.

PROTECTION FACTOR

Clean Air Filter has developed a method of measuring and correlating the systems by testing with optical particle counters (OPC’s). CAF uses the particulate measurement range of the ratio of the inside/outside at 0.3 micron (μm) giving the “Protection Factor”, using 0.3 μm as it is the smallest penetrating particle size for the deep lung.