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Dufrane Nuclear Shielding is excited to introduce new ventilation units that are going to change the game in ventilation of contaminated or potentially contaminated workspaces. Our ventilation units can be standard units or custom designed and built to meet field requirements of either national laboratory, commercial nuclear, or fuel processing facilities.

The Dufrane standard horizontal or vertical ventilation units can be custom built & configured for your specific job application. Our ventilation units can be utilized to provide negative pressure ventilation to containment tents, tanks, and custom confined enclosures or positively pressure a containment with HEPA filtered air. All units come with a pre-filter & HEPA filter installed.

Horizontal Ventilation Units

Our horizontal ventilation units are offered in either a 1,000-cfm configuration or a 2,000-cfm configuration. A 3hp motor that is either three-phase or single-phase can be custom configured to your design specifications. Thermal overloads in the motor controller are available to suit project requirements.

The blower housing is typically constructed out of non-sparking aluminum; however, our units can be custom designed and built to order. Typically, the 1,000 cfm units have one 8" non-dampered inlet and the 2,000 cfm units have two 8" dampered inlets with a roll bead edge for connection to standard flex duct. The blower housing offers both a pre-filter and a HEPA filter which remove 99.97% of airborne particulates. Separate doors allow access to change out the pre-filter and HEPA filter.

Vertical Ventilation Units

Our vertical ventilation units are ideal for situations that require maneuverability in close quarters. Dufrane offers these units in either a 1,000-cfm configuration or a 2,000-cfm configuration. Typically, a 2-1/4hp single-phase 110/220vac motor is supplied. Thermal overloads in the motor controller are available to suit project requirements.

Just like the horizontal ventilation unit, the blower housing is typically constructed of non-sparking aluminum, however, our units can be custom built to order. Two 8" dampered inlets with a roll bead edge for connection to standard flex duct are supplied. The blower housing offers both a pre-filter and a HEPA filter that can remove 99.97% of airborne particulates. Separate doors allow access to change out the pre-filter and HEPA filter.

Filter Change-out and Safety

Filter change-out is conducted without jeopardizing safety or creating contamination risk. Our change-out bag system allows operators to safely remove contaminated filters utilizing a safety change-out bag that is stored in the unit. Once the spent filter is inserted into the change-out bag, the bag can be sealed and disposed. A new filter is inserted into a new change-out bag. The new change-out bag is then attached to the blower housing and the new filter is inserted utilizing the glove feature on the change-out bag.

Two D/P gauges are mounted on the unit to determine pre-filter or HEPA filter loading. Visual or audio loss of flow alarms can also be incorporated to provide operators notification of any flow issues encountered during operation.

Transport & Mobility

Either unit can be set up in a fixed or mobile situation. Caster mounting, ridged mounting, forklift capable mounts, and lift points for overhead handling can be custom built to order. Rough terrain swivel casters are available.

Additional Options

Additional options available for our horizontal and vertical ventilation units include explosion proof blower and controls, blower exhaust mufflers, variable speed blower, hour meter, inlet dampeners, and custom designed blower discharge flex duct adapters. Custom hoods and specialty inlet devices such as a self-supported, negative pressure drum opening collar can also be designed and constructed to provide ventilation to remote workspaces and capture contamination at the source.