

WELDING

Welding is a fabrication process that joins common materials such as steel, stainless steel, aluminum and others by melting the base material and adding a filler material to form a pool of molten material (the weld pool) that cools to become a strong joint. There are numerous welding processes including Gas Metal Arc (GMAW or MIG), Flux Core Arc Welding (FCAW), Shielded Metal Arc (SMAW or stick), Tungsten Inert Gas (GTAW or TIG), resistance (spot) welding and others to cover the broad range of material and process applications.

Some of the key benefits from weld fume filtration include:

- Worker health protection and minimized potential long term liability
- Energy savings and conservation through recirculated conditioned air
- Extended machine life
- Improved part / product quality
- Reduced housekeeping
- OSHA & EPA regulation compliance

Product Solutions for Collecting Weld Fumes

We offer a full line of fume extraction and collection equipment that can be utilized to safely control welding and thermally generated fumes. The list below indicates our products that are most commonly applied into welding applications. Our application engineers can help you select the right product with the appropriate options and accessories such as explosion vents (swing door or rupture panels), sprinklers, safety after filters, rotary air locks and more to meet your specific application and facility needs.

Our products that are most suitable for welding applications include:

- [SFC Series Downward Flow Cartridge Dust Collectors](#)
- [W Series Weld Fume Cartridge Dust Collectors](#) – portable and wall-mount
(*Plant Engineering's* Product of the Year Gold Award Winner)
- [MCB Cross-Ventilation Dust Collectors](#)
- For oily weld fume, [Smog-Hog® SHN/SG Series Mist Collectors](#)