Uniflow SE Fume Hood compared to traditional metal hood

UniFlow Unitized Construction with One-Piece Seamless Fume Chamber, Coved Corners and Glass Smooth Surfaces (a minimum of metal parts & fasteners)

Traditional Steel Frame Fume Hood UniFlow Advanced Composite Fume Hood

A. Fully Assembled Fume Hoods

Traditional Fume Hood (60" wide)
Weight: 435 lbs.
Painted Steel Panels: 10
Galvanized Steel Braces: 13
Composite Liner Panels: 8
Bolts and screws: 175

UniFlow Fume Hood (60" wide)
Weight: 265 lbs.
Entire superstructure is unitized construction; no cracks or seams, no painted steel panels.

Traditional Steel Frame Fume Hood UniFlow Advanced Composite Fume Hood

B. All Structural Fasteners Removed

Traditional Fume Hood (60" wide)
175 bolts and screws removed. No caulk or grouting used to seal corner joints and seams from chemical corrosion. Galvanized formers and braces subject to corrosion & failure

UniFlow Fume Hood (60" wide)
Unitized, advanced composite construction. No assembly required. Glass smooth, one-piece fume chamber with coved corners: no seams or joints.

Traditional Steel Frame Fume Hood UniFlow Advanced Composite Fume Hood

C. All Non-Corrosive Resistant Supports, Fasteners and Panels Removed

Traditional Steel Fume Hood (60" wide)
Weight: 139 lbs.
Number of Liner Panels: 8

HEMCO Advanced Composite Uniflow Fume Hood (60" wide)
Weight (sash weights removed) 210 lbs.
Composite components (superstructure, access panel, air foil)

Customer's Comments:
"Metal hoods, based on the nature of the products we analyze (sulfur chlorides, sulfuric acids, oleums), last about two or three years. These chemicals have corroded both the exterior panels and the internal framework of the metal hoods...We replaced them eight years ago with HEMCO fiberglass hoods and have had no repairs since then. We are building a new facility and we plan to install HEMCO hoods."
Steve Mixon, Chief Chemist