Ambient Weld Fume Control

Push-Pull System Arrangement with MCP SmartFilters

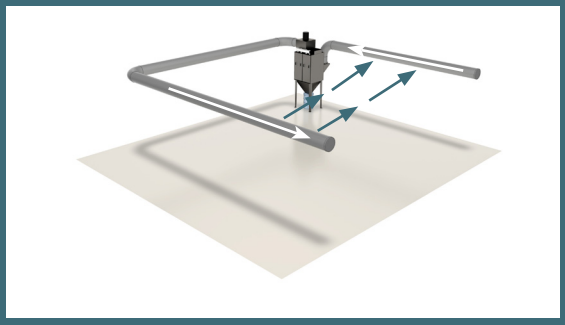
Improved Working Air Quality

Push-Pull ambient air filtration systems offer a viable alternative to traditional source capture methods, particularly in scenarios where conventional solutions are impractical. By focusing on ambient air collection and controlled airflow management, these systems contribute to enhanced worker safety and improved indoor air quality in industrial settings.

- Complement to Source Capture: While not directly safeguarding worker breathing zones, our ambient systems serve as an effective complement to on-torch or local exhaust solutions, ensuring stringent air quality standards are met, particularly in environments where source capture alone may fall short.
- Customized Application: Push-Pull systems are designed for various applications, including large fabrications where the use of cranes is necessary, and environments where traditional source capture methods are ineffective.
- HVAC Benefits: Unlike solutions reliant on simple air exchange, our solution minimize the loss of warm air in colder climates.

Applications

- ☑ Heavy Welding Environments
- ☑ Galvanized Welding Applications
- ☑ Long Line Welding
- ☑ Fume Gun Systems
- ☑ Large Fixture Welding
- ☑ Abrasive Blasting
- ☑ Cold Climates



How it works?

System maintains a laminar airflow pattern, allowing contaminants to rise and be carried toward the pull side of the system once they lose their upward momentum.

By strategically directing airflow towards the pull side, our systems effectively capture and filter contaminants, optimizing air quality within the workspace.

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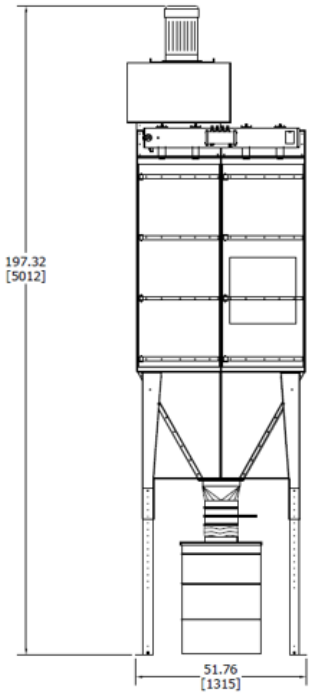
Suitable solution for various layouts

Push-Pull systems are commonly designed in closed-loop and parallel arrangements, often featuring single or dual filters to match the unique demands of each facility. These configurations are tailored based on a comprehensive assessment of factors such as field conditions and welding load. However, if these arrangements do not fully address the requirements, alternative configurations can be seamlessly implemented to provide a customized solution for every application.

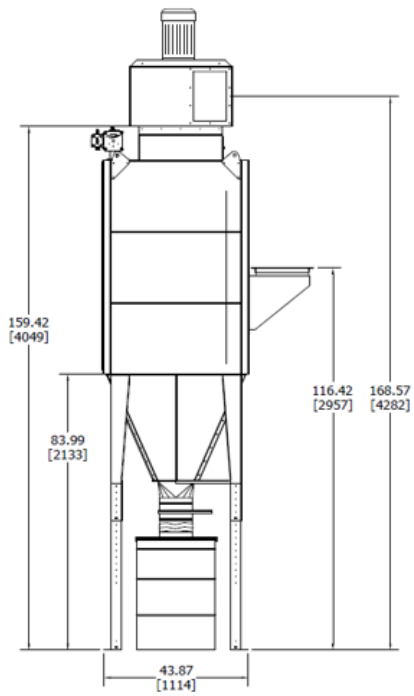
General Specifications

Layout Option	Working Area	Air Changes	Recommend Fresh Air	Filter Model	Max. Airflow	Fan Power	Total Filter Area	Input Power
	ft² (m²)	Changes/Hour	CFM (m³/h)		CFM (m³/h)	HP (kW)	ft² (m²)	
Closed Loop	3000 (280)	5-10	1750 (3000)	MCP 4-S	5000 (8500)	10 (7,5)	1137 (106)	208 / 3PH /60HZ
								460 / 3PH /60HZ
								575 / 3PH /60HZ
Parallel	6000 (560)	5-10	3500 (6000)	2 x MCP-4S	10000 (17000)	2 x 10 (2 x 7,5)	2274 (212)	208 / 3PH /60HZ
								460 / 3PH /60HZ
								575 / 3PH /60HZ

General Dimensions



Front View



Right View

inches [mm]

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