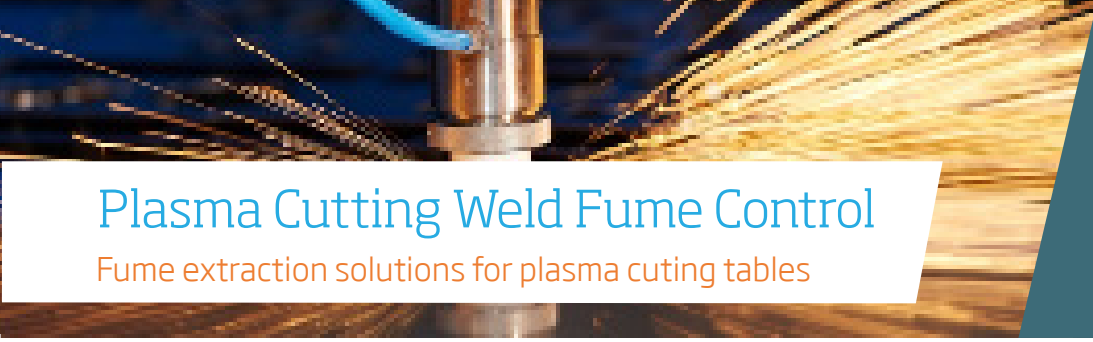


Plasma Cutting Weld Fume Control

Fume extraction solutions for plasma cuting tables

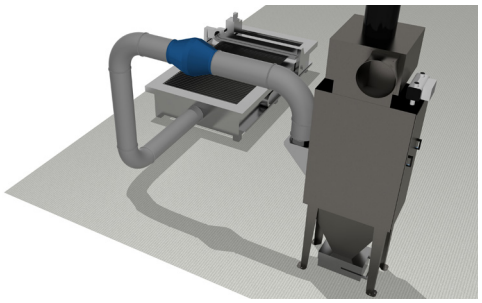
Complete Solutions for Thermally Generated Fumes

Thermal metal cutting with plasma generates dust, fume and contaminant that must be controlled to protect workers and the facility. Nederman's MCP SmartFilter offers an effective solution for cutting tables with advanced filtration technology and reliable performance.

- Complete Systems: Nederman offers complete fume control packages that capture, convey and filter contaminant in a safe and efficient manner.
- High Filtraton Efficiency: The MCP SmartFilter features Nanofiber Fire Retardant filters that capture the sub-micron fume in a safe an effective way.
- Future Proof: The MCP SmartFilter includes advanced controls that make it easy to operate, maintain and service. Digital monitoring of performance and key components can be remote monitored and provide automated alerts and reports.

Building a Complete Clean Air Solution

Nederman's MCP SmartFilter is a modular dust and fume collector that can be configured to specific customer needs. The product offers a rear, vertical inlet saving floor space, a 13 gal. (60 l) dust discharge bin, patented squircle filters, IntelliPulse filter cleaning algorithm and an integral, top mounted fan.



MCP 2-8S fume extraction system for typical downdraft plasma cutting tables

Quick Fit Duct

Complete range of Quick-Fit (QF) duct and fittings for building complete extraction systems. QF duct offers installation savings, improved maintenance, and future flexibility.

Spark Trap

Installed in ducting, the Nordfab Inline Spark Trap reduces the possibility of fire in collectors by decreasing the number of sparks which could reach the collector through the ductwork.

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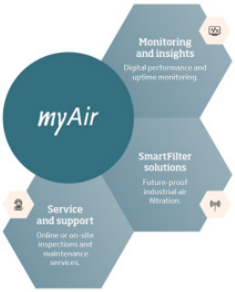
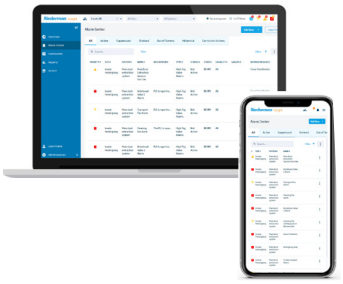
Advanced Controls Optimize Operation, Maintenance and Service

Insight Control Panels

The MCP SmartFilter offers the world's most advanced dust collection control panel that includes a vibrant, easy to use HMI Touchscreen with animated, graphical representation of system operation. The UI includes (15) languages and is designed in accordance with global industrial alarm standards ISA 18.2 and IEC 62682. The control panels pair seamlessly with variable frequency drives (VFDs) to offer maximum energy savings and reduced operation costs.



The advanced controls package supports digital monitoring through the Nederman Insight cloud-based platform. Sensors on key components and the process helps manufacturers avoid costly downtime, improve maintenance, and drive safety of your fume extraction solution.



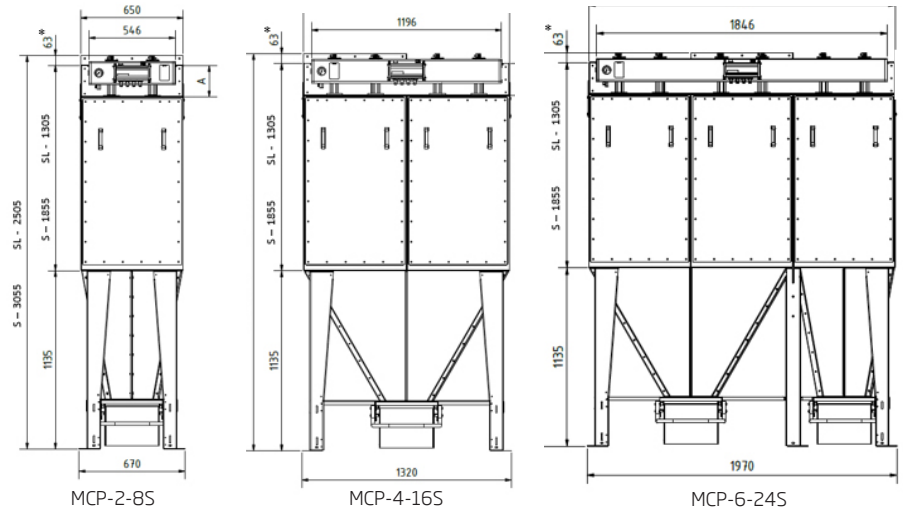
General Specifications

MCP Model	Module Quantity	Filter Quantity	Filter Area*	Maximum Airlfow	Estimated Shipping Weight	Approximate Dimensions		
						Height***	Width	Depth
			ft³ (m³)	ft³ (m³/hr)	lbs (kg)	in (cm)	in (cm)	in (cm)
MCP-2-8S	2	8	1137 (106)	4120 (7000)	1000 (454)	131.5 (334)	25.6 (66)	45.0 (114)
MCP-4-16S	4	16	2273 (211)	8240 (14000)	1500 (680)	131.5 (334)	51.3 (130)	45.0 (114)
MCP-6-24S	6	24	3410 (317)	12360 (21000)	2000 (907)	131.5 (334)	76.9 (195)	45.0 (114)

* Stated height is with a 26 gal (100 l) discharge bin. ** Weight includes typical fan but will vary based upon order configuration. *** Height does not include the fan.

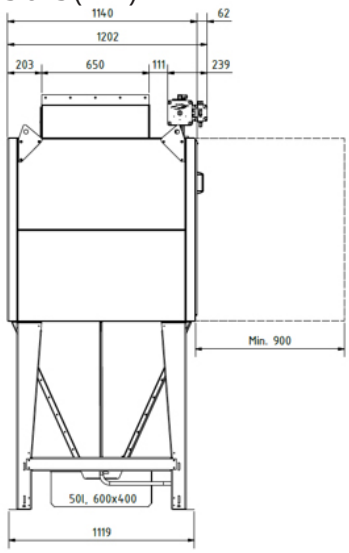
- Selected models most common for thermal cutting are shown. Contact Nederman representative for full product range.
- Insight Control Panel operates on 115 V / 1 PH / 60 Hz and requires VFD
- Variable Frequency Drive available in 208-240 V, 460 V, 575 V / 3 PH / 50-60 Hz
- Integral mounted fans available in 5, 7-1/2, 10, 15 & 20 HP models

Dimensions (mm)



MCP-2-8S MCP-4-16S MCP-6-24S

Front View



Side View

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