

# MCP-12S-APT Air Purification Tower

Self-contained, cartridge dust collectors for ambient air cleaning

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## MCP-12S-APT Air Purification Tower



MCP-12S-APT, High version

The MCP-12S-APT Air Purification Tower (APT) is an innovative solution for ambient clean air in factories with welding fumes or suspended dust. It can be used as a standalone unit or in a network of units, depending on the workshop's size and layout. It is ideal for situations where source capture is impractical or insufficient for comprehensive air cleaning.

The Air Purification Tower has various applications, such as large part welding, areas with cranes or obstructions that prevent overhead ducts, areas that need a lot of movement or general ventilation for nuisance dusts.

- Compact and efficient design.  
Twelve high-capacity, patented cartridge filters with fire-retardant, Nanofiber media increase efficiency, reduce energy consumption, extend filter life, and shrink footprint by 20% compared to previous generations.
- Flexible and adaptable configuration.  
Low and High models with 60 individually adjustable nozzles can cover simple and complex arrangements. The High model has a clean air return header that can rotate 360° and extend in height, allowing the unit to deliver air in optimal airflow patterns in complex environments.
- Powerful and quiet fan.  
A robust and reliable Combifab-F series fan, enclosed in a sound attenuation chamber, keeps sound levels below 72 dB(A).
- Integrated, user-friendly controller.  
Operates fan and filter cleaning, with clear visualization of device status. It also has remote/start-stop signals and timers to automate operation. Each model can have a Variable Frequency Drive (VFD) for enhanced airflow control and energy efficiency.
- Simple and convenient installation and maintenance.  
Delivered as three pre-mounted and pre-wired components, and once installed, has single-side access to all vital unit components. A large dust bin ensures extended maintenance intervals.

Product name	MCP-12S-APT Air Purification Tower
Noise level (dB(A))	72 (at 1m (3,28 ft.) from unit at 1,6 m (5.25 ft.) height)
Compressed air consumption	16,5 NI/cleaning puls (0.6 cfm) 50 NI/min at 20 s interval (1.6 cfm/min) 165 NI/min after cleaning (5.9 cfm/min)
Installation	Indoor
Material	Galvanised sheet metal
Filter cleaning method	Pulse jet
Application	Fumes
Working pressure (kPa)	Negative pressure max 6 kPa (24 inch / 6000 Pa)





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Dustbin volume (l)	50 l with wheels (13 gal.)
Filter Area (m <sup>2</sup> )	158 (1700 ft <sup>2</sup> )
Capacity (max airflow m <sup>3</sup> /h)	10000 (5900 cfm)
Operating Temperature	-20°C to 70 °C ( -4°F to 158°F )
Power Voltage (V)	400
Frequency (Hz)	50
Filter type	Cartridge
Number of filter elements	12
Filter material	SC178 polyester material with nanofiber (80% cellulose, 20% polyester), suitable for fine dust and welding fumes
Power (kW)	10.0







Fumes

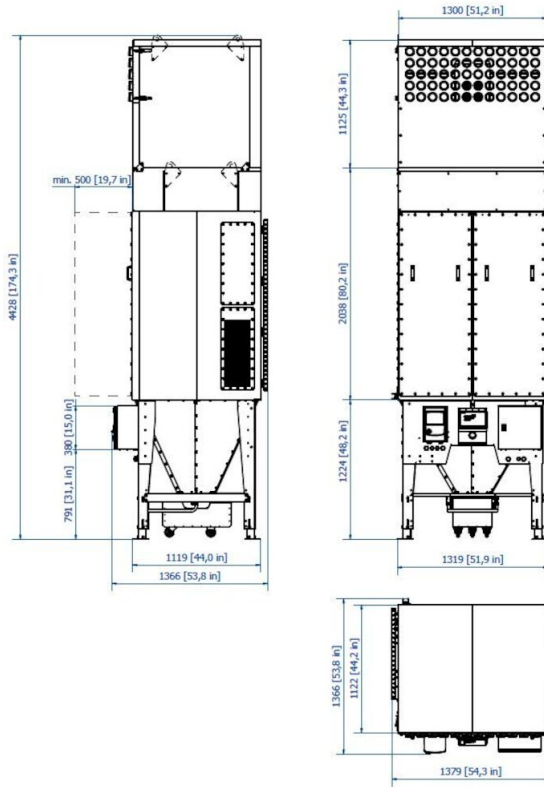
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Image	Weight (kg)	Model
	900	73001823
	950	73001824
	900	73002325
	950	73002326

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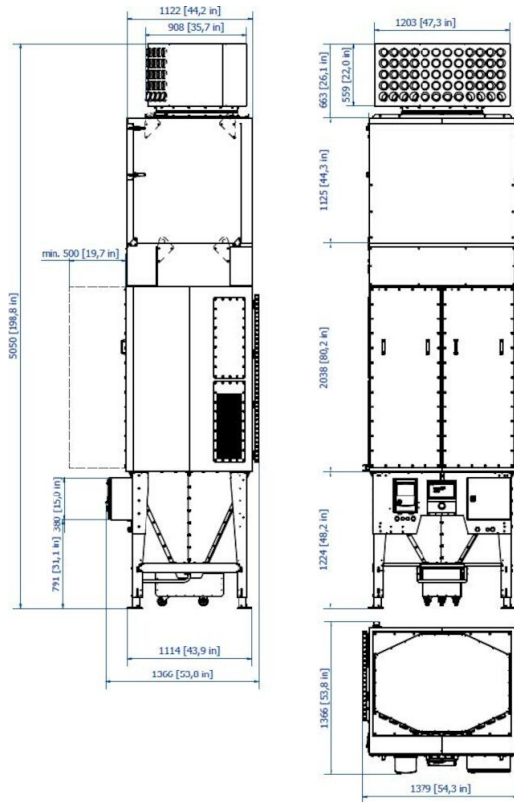
Accessory		Part No
	Filter regulator	55999315
	Level indicator for dust bin	55999316
	Lifting device for fork lift	55999319
	4 m connection cable set with CEE plug (pre-mounted)	55999328
	Duct piece for room cleaning Ø710 (28 inch)	7945520

## MCP-12S-APT Air Purification Tower



Dimensions MCP-12S-APT LOW version

# MCP-12S-APT Air Purification Tower



Dimensions MCP-12S-APT HIGH version