

MCP-16RC, Air Purification Tower

Compact cartridge filter with pulse cleaning

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The MCP-16RC Air Purification Tower is a compact cartridge filter for decentralized indoor air purification.

Dirty air enters the unit at floor level into the efficient filtration compartment, clean air is blown back into the workplace through 60 individually adjustable nozzles at high speed on top of the unit.

The unit is delivered as two pre-wired components requiring minimal mechanical installation. With a built in fan it requires only power and compressed air supply to be connected to complete the installation.

Inside the unit are 16 patented Uni-Clean filter cartridges. The filter cartridges are cleaned automatically by an energy efficient compressed air reverse pulse system. Cleaning is activated by an integral electronic controller. The filter is made out of 14 gauge (2 mm) galvanized and painted sheet metals.

The MCP-16RC is easy to maintain thanks to the following features:

- Front access allows easy inspection and service of the cleaning valves, compressed air tank and filter cartridges.
- Ergonomic and easy maintenance of the unit, due to location of controller and electrical cabinet.
- Simple emptying of the dust bin

Outlet / Outblow: The outlet is placed on top of the filter and equipped with 60 nozzles for high speed air flows. The outlet and the nozzles are individually adjustable for local conditions.

Dual Silencer: The fan is completely build in a special dual silencer, which decreases the noise level from fan motor and airflow.

Fan: F63-R355 (10,0 kW) from Combifab F-series for 50 Hz and FM831 (20 HP) for 60 Hz

Filter Cartridges: CA175: flame retardant cellulose (80% cellulose, 20% polyester), suitable for fine dust and welding fumes

Inlet: The inlet is covered and placed on the rear side for low air noise. It includes a backpressure flap, which closes when the filter is shut down for dust-free cleaning.

Dust bin: Dust bins are always equipped with wheels for easy maintenance.

The following sizes are available:

- 50 l / 13 gal. with wheels
- 37 l / 10 gal. with wheels and bin balancing (required for W3)

Easy two step installation: The filter is delivered as two pre-wired components. Simply assemble the two components and connect to power and compressed air supply to complete installation.

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- 60 nozzles with 35 m (115 ft.) throw length
- Available as W3 tested unit according to EN15012-1

Product name	MCP-16RC, Air Purification Tower
Noise level (dB(A))	70 (at 1m (3.28 ft.) from unit at 1,6 m (5.25 ft.) height)
Compressed air requirement	Clean & dry compressed air, 4,5 bar (65 psi) , 24 V DC
Compressed air consumption	22 NI/cleaning puls (0.8 cfm) 66 NI/min at 20 s interval (2.4 cfm/min) 220 NI/min after cleaning (7.8 cfm/min)
Installation	Indoor
Material	Galvanised and painted sheet metal
Filter cleaning method	Pulse jet
Application	Fumes
Working pressure (kPa)	Negative pressure max 6 kPa (24 inch / 6000 Pa)
Dustbin volume (l)	50 l with wheels (13 gal.) or 37 with wheels and bin balancing
Filter Area (m ²)	232 (2498 ft ²)
Capacity (max airflow m ³ /h)	10000 (5900 cfm)
Operating Temperature	-20°C to 70 °C (-4°F to 158°F)
Power Voltage (V)	400
Frequency (Hz)	50
No of phases	3
Filter type	Cartridge
Number of filter elements	16
Control Voltage (V)	85 - 265 V AC - 50-60 Hz
Power (kW)	10



Fumes

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Image	Description	Filter material	Weight (kg)	Model
	MCP-16RC, Air Purification Tower, 400 V, 50 Hz,L	CA 175	1250	55999302*
	MCP-16RC, Air Purification Tower, 400 V, 50 Hz,R	CA 175	1250	55999303*
	MCP-16RC, Air Purification Tower, 400 V, 50 Hz, L, W3	CA 175	1250	55999306*
	MCP-16RC, Air Purification Tower, 400 V, 50 Hz, R, W3	CA 175	1250	55999307*
	MCP16-RC, Air Purification Tower, 400V, 50Hz, L	CA175	1250	55999329**
	MCP-16RC, Air Purification Tower, 400V, 50 Hz, R	CA175	1250	55999330***
	MCP16-RC, Air Purification Tower, 400V, 50Hz,L, W3	CA175	1250	5590753***
	MCP-16RC, Air Purification Tower, 400 V, 50 Hz, L	CA175	1120	5590697*
	MCP-16RC, Air Purification Tower, 400V, 50 Hz, L	CA175	1120	5590837***

*Excl. frequency inverter

**incl. frequency inverter

***Incl. frequency inverter

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Accessory		Part No
	Filter regulator	55999315
	Level indicator for dust bin	55999316
	Plastic bag set	55999317
	Duct Piece Set for Room Cleaning Type 1	55999314
	Lifiting device for fork lift	55999319
	4 m connection cable set with CEE plug (pre-mounted)	55999328

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