

MCP-16RC, Air Purification Tower

Compact cartridge filter with pulse cleaning



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	[PulseJet]
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 (m²)	232 (2498 ft ²)
Capacity (max airflow m³/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
Filter material	CA 175
Control Voltage (V)	85 - 265 V AC - 50-60 Hz
Weight (kg)	1250
Power (kW)	10



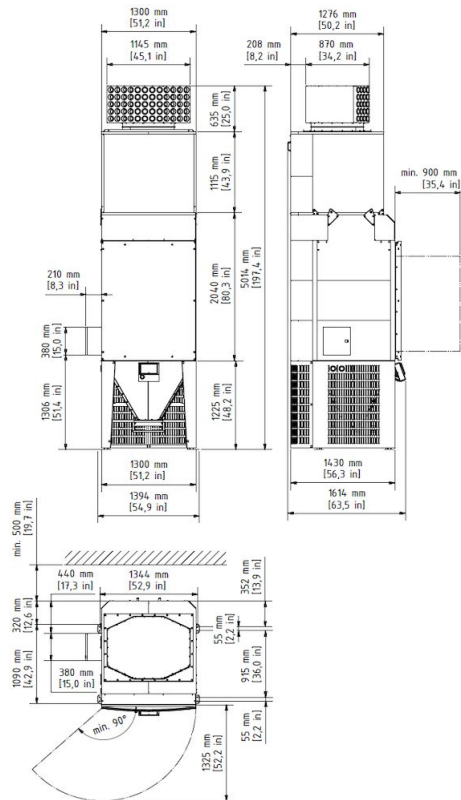
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[image]	Description	[model]
	MCP-16RC, Air Purification Tower, electrical cabinet on left filter side. Dust bin: 50 l. Fan: F63-R355 (10,0 kW)	55999302
	MCP-16RC, Air Purification Tower, electrical cabinet on right filter side. Dust bin: 50 l. Fan: F63-R355 (10,0 kW).	55999303
	MCP-16RC, Air Purification Tower, electrical cabinet on left filter side and W3 certified. Dust bin: 37 l with bin balancing. Fan: F63-R355 (10,0 kW)	55999306
	MCP-16RC, Air Purification Tower, electrical cabinet on right filter side and W3 certified. Dust bin: 37 l with bin balancing. Fan: F63-R355 (10,0 kW)	55999307

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[accessory]		[partno]
	Air purification box with indicator	55999319
	Timer-Function Is used for setting the working hours of the filter according customer needs. The filters starts and stops automatically according the settled working hours. The timer is integrated into the electrical cabinet when ordered with the filter incl. a selection switch. (Can only be ordered with a complete MCP-16RC.)	55999324

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The electrical cabinet can be placed on left or right filter side.

Note: The filter must be placed in such a way that there is always free access to the electrical cabinet, because the emergency stop is placed on the front door of the electrical cabinet.

The inspection door on the back site of the filter must be able to reach for service.