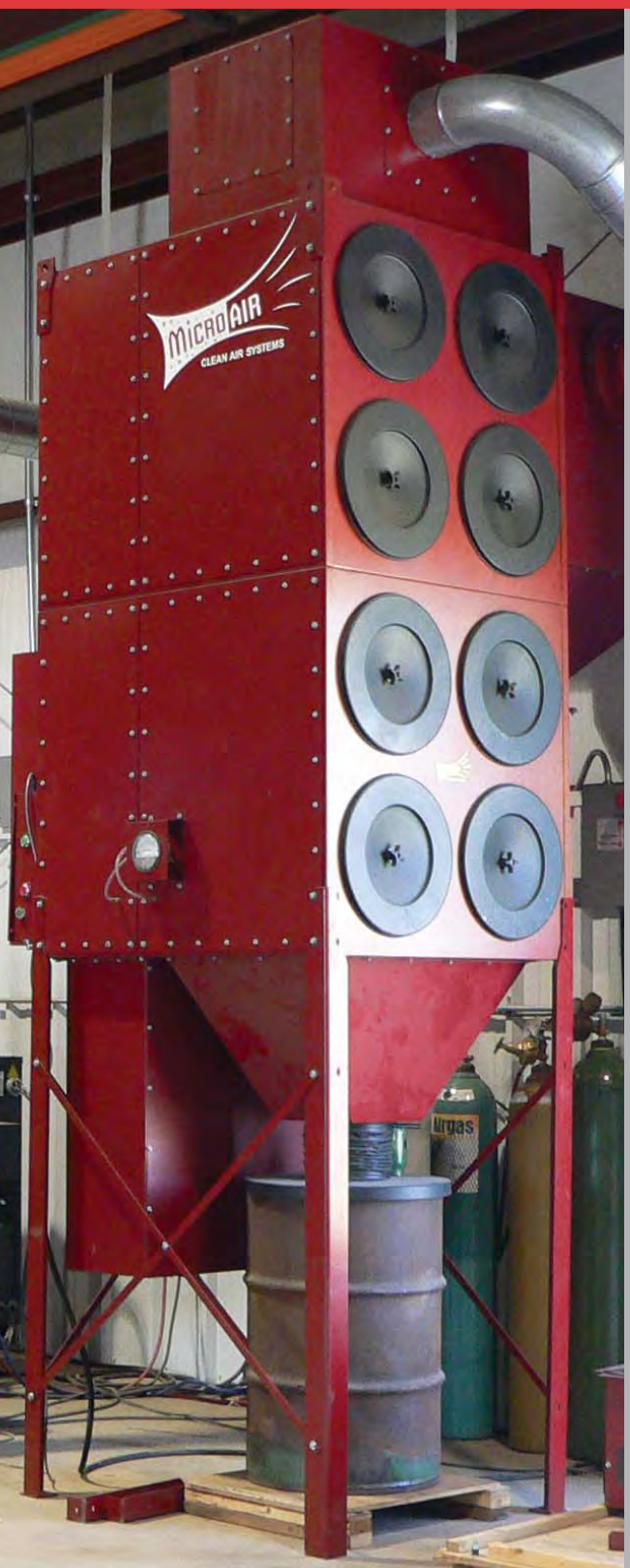
DUST COLLECTORS

MICRO AIR®

Clean. Easy. RED.

Powerful. Efficient. RED.

Look to Micro Air® Dust Collectors for clean air and cost-effective operation.



Unmatched Cleaning Efficiency

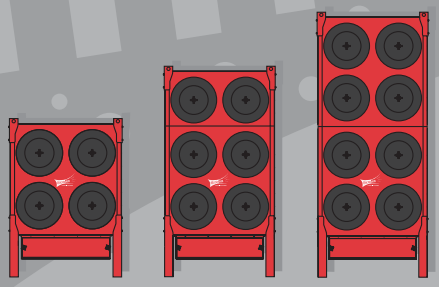
Micro Air dust collectors are engineered for powerful filtration at lower total costs. The exclusive Roto-Pulse™ cartridge cleaning system cleans more filter area, lengthens filter life, reduces maintenance costs, and uses less compressed air than typical backflush systems.

Lower Energy Needs

Micro Air dust collectors help you conserve costly resources. The Roto-Pulse system requires less compressed air, and each unit incorporates an energy-efficient EPACT motor. The amp load is smaller, and voltage requirements are less restrictive.

Small Footprint

Our compact design allows you to locate dust collectors in virtually any area.

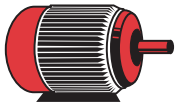


Low-Profile Option

Ear-Friendly Operation

Walk by a Micro Air dust collector, you won't hear the telltale "BANG!" of a competitor's cartridge cleaning system. Roto-Pulse is much quieter, by up to 15 dba, depending on the type of pulse system used.

Dust Collector Options

	**Fans**	Rear mounted
		Top mounted
		Custom orientations
	**Voltage**	208/230 volt, Three phase
		460 volt, Three phase
		575 volt, Three phase
	**Filtration**	80% Cellulose / 20% Spunbond Polyester fire retardant blend- for most applications including metalworking, pharmaceutical, smoke and general industrial
		100% Spunbond Polyester - for fibrous and agglomerative dust such as wood, composites, etc
		100% Hydro-Olieophobic Treated Spunbond Polyester - for oily particulate or high humidity applications
		PTFE membrane cartridges - for some food/chemical applications
		Aluminized cartridges
		95% DOP HEPA afterfilter
		99.97% DOP HEPA afterfilter
		Absolute - for regulated dust
		Other specialized application filters
	**Collection**	Standard hopper
		Dust tray
	**Exhaust**	Silencer
		Motor shroud kit
	**Legs**	Long leg kit (For use with hopper or silencer)
		Short leg kit (Low profile, with dust tray)
	**Explosion Control**	Explosion vent kit - Left (Incl. Locking barrel lid kit)
		Explosion vent kit - Right (Incl. Locking barrel lid kit)
		Explosion rated motor
		Explosion rated blower
	**Others**	Magnahelic gauge
		Photohelic gauge
		Various filter monitoring devices
		Barrel lid kit
		Inlet plenum
		Spark arrestors - for hazardous applications

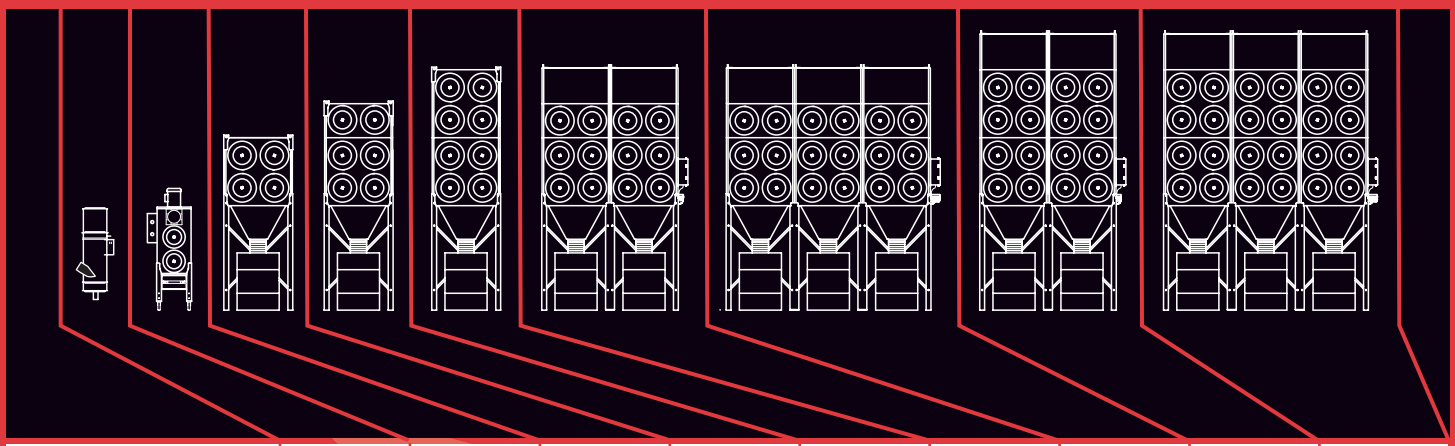
ACCESSORIES

Safety filter • Disconnects • Inverters • Regulators • Silencers • Drums • Source capture arms

MICRO AIR CLEAN AIR SYSTEMS

P.O. Box 1138 • Wichita, KS 67201 • 316-946-5875 • FAX 316-219-2995 • Toll-Free: 1-866-566-4276
e-mail: info@microaironline.com • www.microaironline.com

Dust Collector Specifications



MODEL	RP1	RP2	RP4	RP6	RP8	RP6-2	RP6-3	RP8-2	RP8-3
No. of Filters	1	2	4	6	8	12	18	16	24
80/20 Filter Area* sq ft	174	348	1,164/1,000	1,746/1,500	2,328/2,000	3,492/3,000	5,238/4,500	4,656/4,000	6,984/6,000
Spunbond Filter Area** sq ft	100	200	600	900	1,200	1,800	2,700	2,400	3,600
Compressed Air Requirements	1.1 scfm	2.7 scfm	2.7 scfm	2.7 scfm	2.7 scfm	4.1 scfm	4.1 scfm	4.1 scfm	4.1 scfm
No. of Valves	1	1	2	3	4	6	9	8	12
Height (in)	69	69.5	128.5/80	149.5/101	170.5/122	153.5/104	153.5	174.5	174.5
Width (in)	19.5	21	42	42	42	84	126	84	126
Depth (in)	19.5	48	63	63	63	48	48	48	48
Unit Weight (lb)	200	535	1,315	1,460	1,850	2,318	3,477	3,098	4,647

*80% Cellulose/20% Spunbond Polyester Blend, Fire Retardant Cartridge Filter

**100% Spunbond Polyester Cartridge Filter (With Or Without Hydro-Oleophobic Coating)

STANDARD FEATURES	
Construction	12 and 14 gauge steel
Paint	Industrial grade crimson red, textured baked enamel, inside & outside
Compressed Air	Requires 90 PSI for incremental rotos
Wind Load	Rated to 100 mph
Control Panel/ Electrical	All package collectors come complete with factory installed motor starter and overload protection, step-down transformer, 20 mm pushbutton start/stop switches, solid state timer board with fuse protection
Housing Pressure	Rated to +/- 20 inches w.c.
Filtration Efficiency	99.999% > .8 microns, 99.995% .3 to .8 microns, rated by ASHRAE 52.2 using atomite test dust
Hopper	Collection hopper is standard equipment

APPLICATIONS

Metalworking • Composites • Woodworking • Pharmaceutical • Chemical • Food Processing • Pulp & Paper • Countless Industry Applications

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Exterior Placement Capable

Need to save precious interior floor space? Our units are as comfortable outside as they are inside.

Easy Maintenance

All critical hook-ups, air, and electricity are outside the cabinet for easy access. Motors and valves are externally mounted. Cartridges are easily removed from the front.

Balanced System

Dust collector components are specified for proper cfm and air-to-cloth ratios across a wide range of static pressure requirements. Standard blowers, motors and motor starters are factory installed. Each unit is pre-wired.

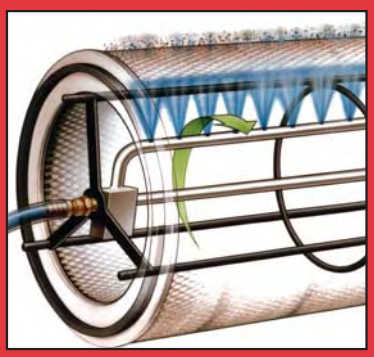
Rugged Construction

Our units are engineered for years of operation and countless cubic feet of dust-laden air, regardless of your application. Micro Air dust collectors incorporate heavy duty 12-gauge steel, industrial grade enamel paint (inside and outside), leak-free seals, and years of proven industrial use in the field.

Standard and Custom Configurations

Every Micro Air dust collector is designed to function both stand-alone and as part of a system. Modular, bolt-together design offers you custom configurations for any application.

Exclusive Roto-Pulse™ extends filter life.



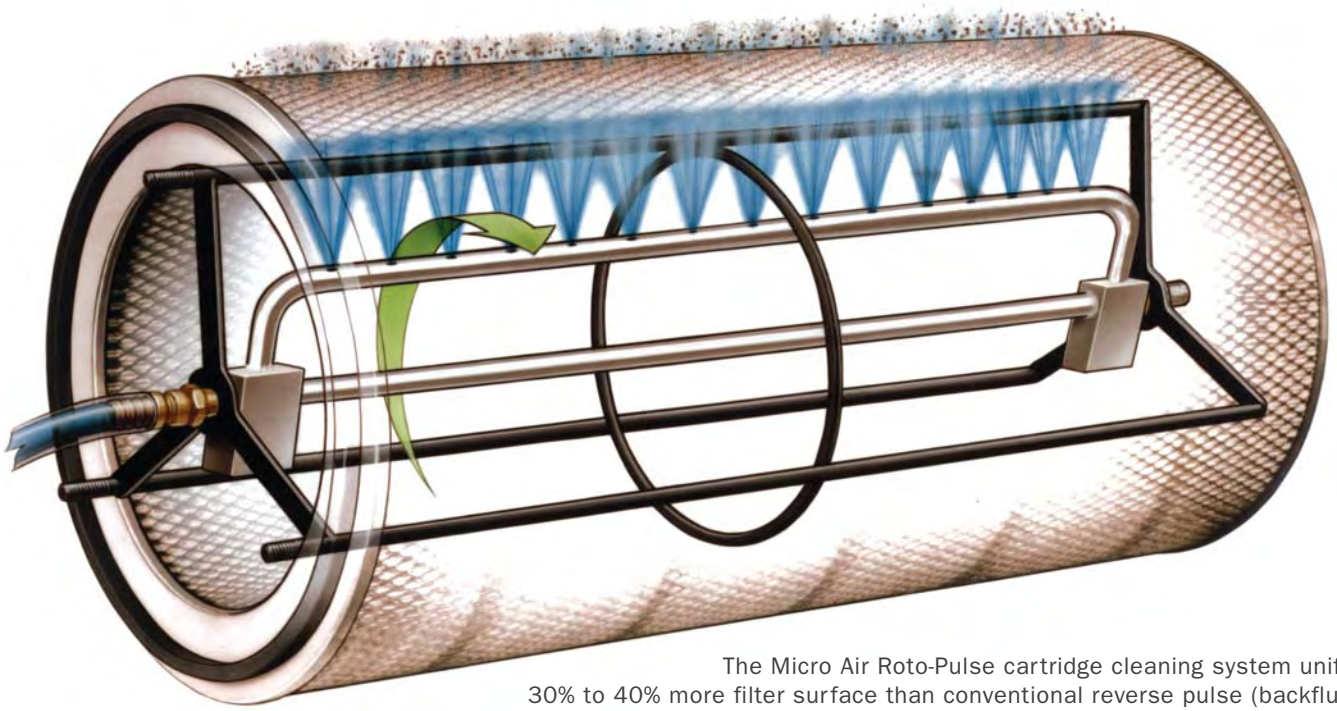
Cartridge replacement is quick and easy.

Optional explosion vents and motors are available.

Filters available in a variety of medias, equipped standard with a fire retardant coating. (See page 7)

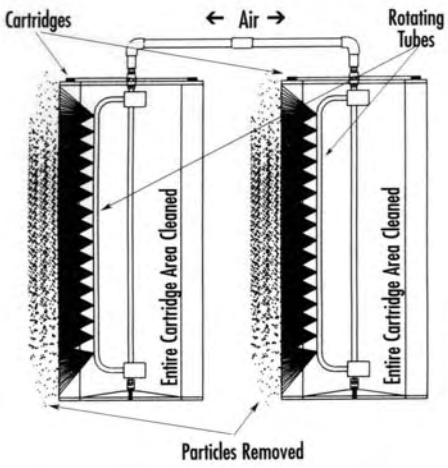
Modular, bolt together design for custom configuration.

Roto-Pulse™ Cleans Filters Better



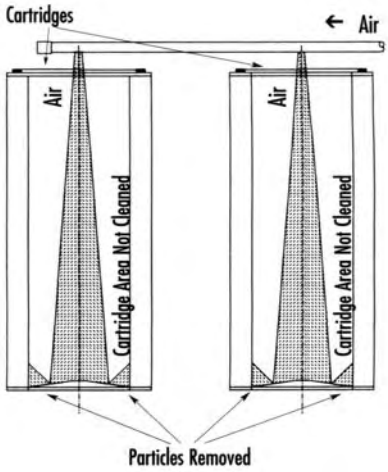
The Micro Air Roto-Pulse cartridge cleaning system uniformly cleans 30% to 40% more filter surface than conventional reverse pulse (backflush) systems, all while running quieter and using less compressed air. It extends the life of your filters, your compressor and reduces your risk of violating OSHA sound level standards. Our 5 year limited warranty on Roto-Pulse assures confidence in system design.

Micro Air Roto-Pulse™ Cartridge Cleaning System



Air is pulsed into a specially designed stainless steel rotating tube with pre-drilled holes. The tube incrementally rotates a number of degrees, distributing the pulse of air across the length of the inside surface of the cartridge, dislodging clogged dirt from the outside of the cartridge. The number of increments per revolution can be adjusted, as well as the time between pulses, for maximum flexibility.

Typical Air Cleaner Backflush System

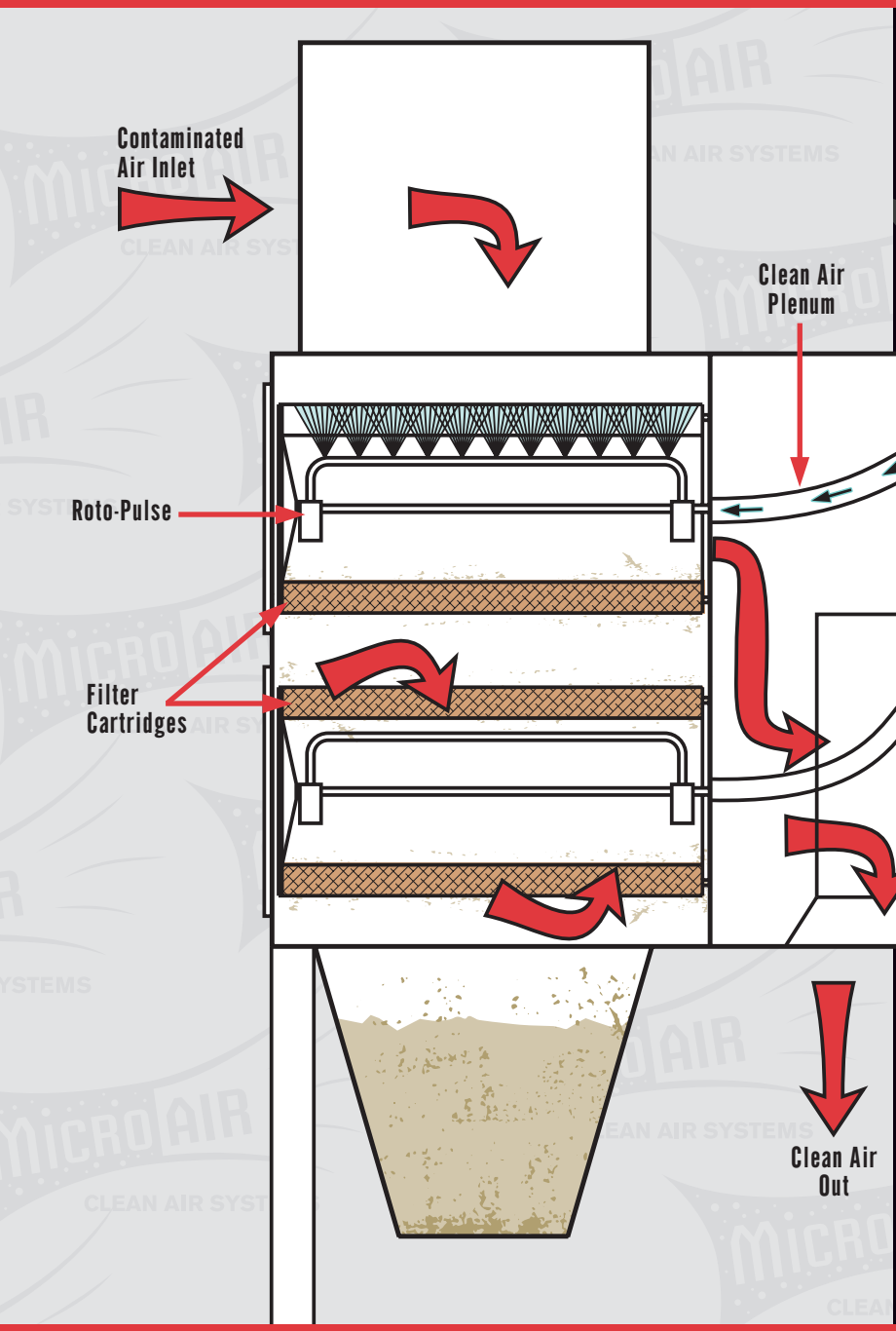


Air enters cleaning pipe and is pulsed into cartridge out of two holes, one for each filter. The air hits only the back corners of the cartridge resulting in inefficient cleaning.

RP8-3 and RP8 collect silica/carbon impregnated insulation dust.

RP8-2 with spark arrestors collects laser smoke.

Dust Collector Operation (Typical)



Dust-laden air is drawn in at the top inlet, then flows downward through the cartridges. Clean air is exhausted at the bottom of the unit.
(Note: On bolt-together models that may use a top mounted fan, the clean air is exhausted at the top of the unit.)

RP8-2 Collects Smoke/Fumes from Robotic Weld Cell

Trailer mounted RP4 collects cement dust

MICRO AIR®

Clean. Easy. RED.

For more than 35 years, Micro Air has manufactured clean air systems that are simple to use and remarkably efficient.

Call us today, or visit:

www.microaironline.com

for a **FREE EVALUATION AND PRICE QUOTE.**

APPLICATIONS

- ***WELDING*** smoke and fumes
- ***MACHINING*** mist and smoke
- ***METALWORKING*** dust
- ***PROCESS*** dust and powder
- ***COMMERCIAL*** applications

SOURCE CAPTURE
Hoods, arms, booths, enclosures, portable units and direct-mounted units.

AMBIENT COLLECTION
Floor, ceiling and wall-mounted units.

DISTRIBUTED BY:

Intelli-Touch™ Energy Savings Control Panel

- Reduces energy consumption by using only the brake horsepower needed to maintain the set CFM. Built-in variable frequency drive automatically slows or speeds the motor RPM based on CFM needed at the running static pressure.
- Reduces peak energy consumption costs by utilizing a soft-start or slow ramp up of motor speed, eliminating sudden surges of power usage.
- Increases expected filter life by automatically adjusting filter cleaning based on system needs.
- Can dramatically reduce compressed air usage.
- Allows for quieter operation through utilization of lower fan speeds.
- Built-in pulse on demand feature and static pressure monitoring system eliminates the need for a Magnahelic or Photohelic gauge.
- Eliminates the need for external dampers or slide gates in ductwork. Simply touch the arrow on the touchscreen to adjust CFM.
- Built-In diagnostics feature tracks pertinent data such as CFM, Static Pressure, amp draw, RPM pulse settings, hours of operation.
- Capability to change usage. Size system for 20 Hoods in the future, use only 10 today.
- Application specific (plasma, laser, wood-working, grinding, etc.) set-up feature reduces installation time.

Investment payback in as little as 6 months depending on energy costs and application usage. Visit our website, www.microair.com, and use the savings calculator to see how fast of a payback you can expect.


Source Capture


Mist Collectors


Dust Collectors


Ambient Air Cleaners


Clean Air Booths

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