

MimoWork Fume Extractor

For a better working environment



Overall Solution: Fume Control for the Laser Processing Industry



Laser processing is widely applied in industries such as automotive, aviation, electronics, aerospace, and machinery manufacturing. It plays a key role in enhancing product quality, automation, and production efficiency.

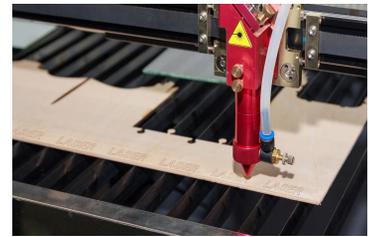
Processes like cutting, engraving, welding, and marking inevitably produce fume and dust, which, if not properly handled, can affect product quality and damage laser equipment.

MimoWork offers tailored fume extraction solutions for all types of laser applications, ensuring a clean, safe, and efficient working environment.



◆ CO₂ LASER CUTTING/ENGRAVING/MARKING

CO₂ laser machines are widely used for cutting, engraving, and marking non-metals. The process generates heavy smoke, fumes, and odors, affecting air quality and operator safety. An efficient fume extraction system ensures a clean, safe, and stable working environment.



◆ FIBER LASER CUTTING/MARKING

Fiber lasers are popular for metal cutting and marking, offering speed and precision. However, processing creates hazardous metal dust and fine smoke. To protect equipment, optics, and workers, effective fume extraction systems are essential for modern laser workshops.



◆ LASER WELDING/CLEANING

Laser welding and cleaning produce dense smoke, metal dust, and airborne particles. These emissions can harm equipment and operator health. High-performance fume extractors are vital for ensuring clean, safe, and efficient operations in industrial laser applications.



◆ OTHER INDUSTRIES

Industries like soldering, grinding, and electronics manufacturing also produce harmful fumes, dust, and particles. A high-efficiency fume extraction system helps improve air quality, protect equipment, and maintain a clean, safe working environment.



Machine Models



FT-JCQ-800



FT-JCQ-1600



FT-JCQ-2200



FT-JCQ-2700



FT-JCQ-3600



FT-JCQ-4500



FT-JCQ-6000



FT-JCQ-8000



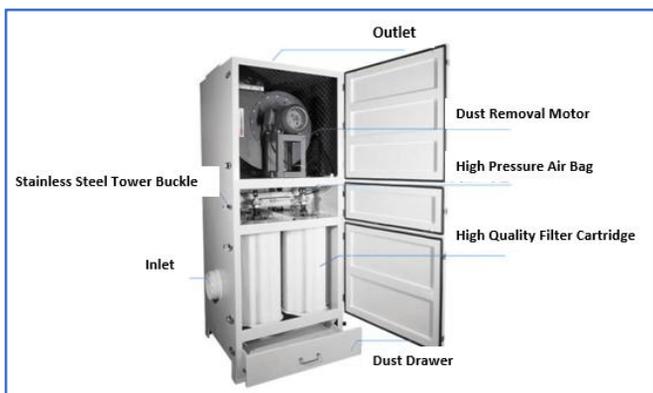
FT-JCQ-10000

Reverse Air Pulse Industrial Fume Extractor

—Filter cartridge vertical structure, integrated design, practical and cost-effective

Integrated Structure

- Integrated structure, small footprint.
- The default fixed feet design is stable and solid, and movable universal wheels are optional.
- The air inlet adopts the left and right air inlet and top air outlet design.



Fan Power Unit

- Medium and high pressure centrifugal fan with good dynamic balance.
- Professional shock absorption ratio design, reducing resonance frequency, excellent overall vibration performance.
- High-efficiency silencing design with noticeable noise reduction.



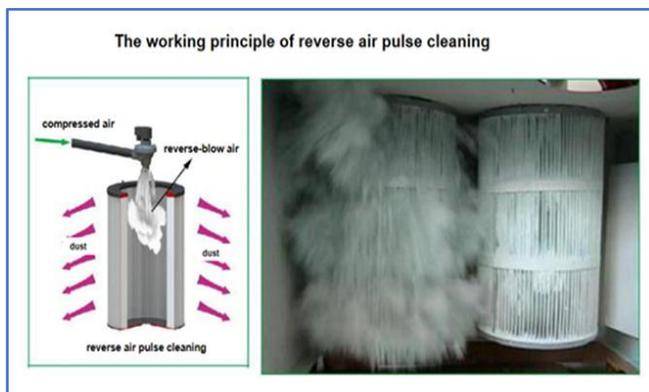
Cartridge Filter Unit

- The filter is made of polyester fiber PTFE film material with a filtration accuracy of $0.5\mu\text{m}$.
- Pleated cartridge filter structure with large filtration area.
- Vertical installation, easy to clean.
- Small wind resistance, high filtration accuracy, in line with emission standards.

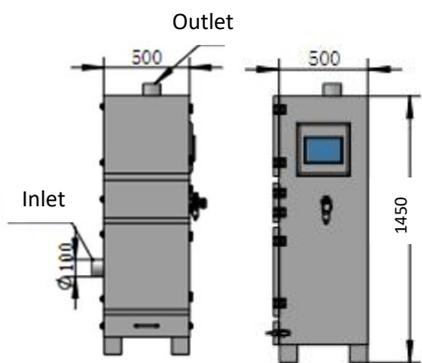


Reverse Air Pulse Unit

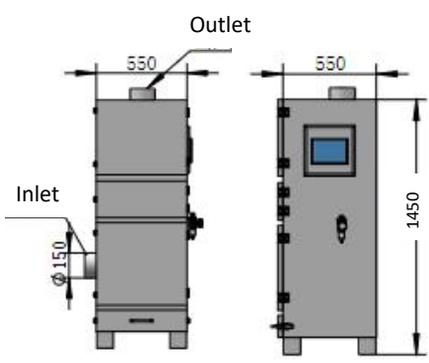
- Stainless steel gas tank, large capacity, high stability, no hidden dangers of rust, safe and reliable.
- Automatic reverse air pulse cleaning, adjustable spraying frequency.
- The solenoid valve adopts professional imported pilot, low failure rate and strong durability.



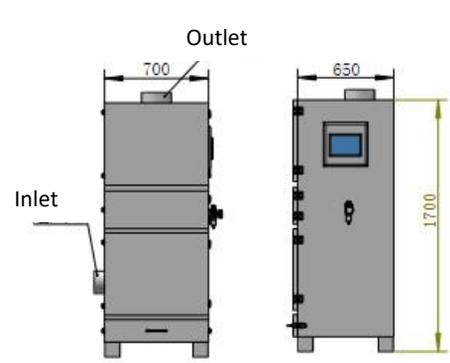
Machine Layout



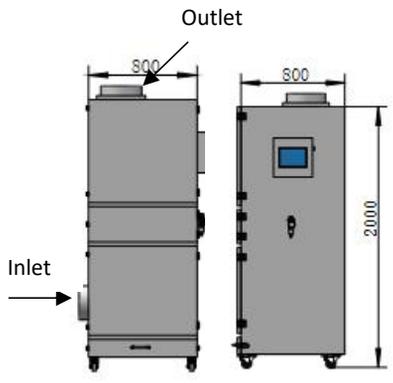
FT-JCQ-800



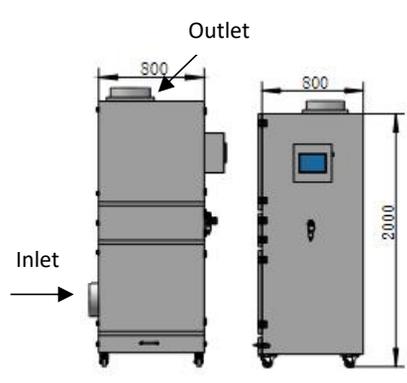
FT-JCQ-1600



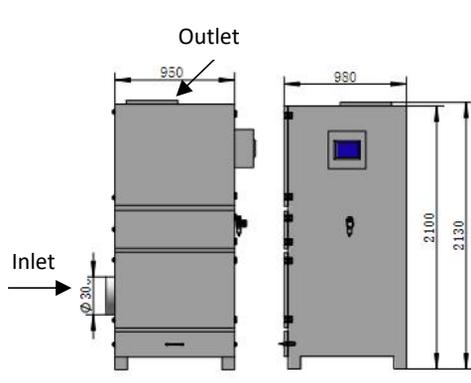
FT-JCQ-2200



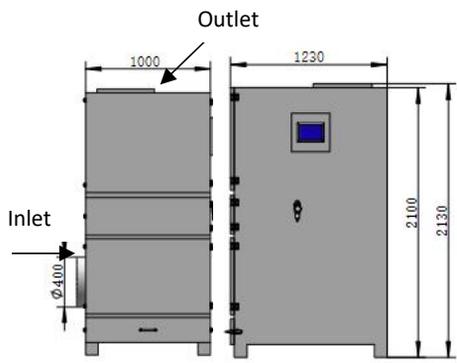
FT-JCQ-2700



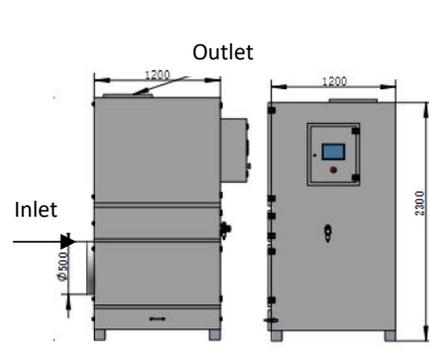
FT-JCQ-3600



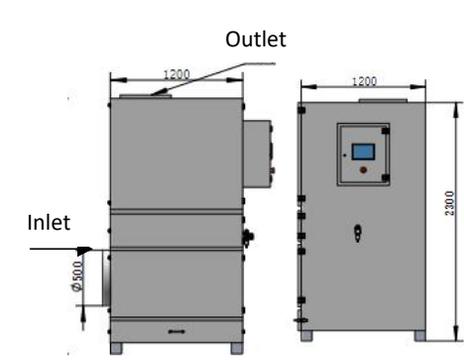
FT-JCQ-4500



FT-JCQ-6000



FT-JCQ-8000



FT-JCQ-10000

Industrial Fume Extractor Parameters

	FT-JCQ-800	FT-JCQ-1600	FT-JCQ-2200	FT-JCQ-2700	FT-JCQ-3600
Air Volume (m ³ /h)	600-800	1000-1200	1800-2000	2500-4000	3500-5000
Machine Case Material	Steel with paint(default) / Stainless steel(optional)				
Power (KW)	0.75	1.5	2.2KW	3KW	4KW
Power Supply Voltage	220V/single phase	220V/single phase	220V/single phase	380V/three phase	380V/three phase
Air Pressure(Pa)	1210	1360	1470	1578	1650
Self Cleaning Method	Pulse self cleaning				
Pulse Duration	0-9999 seconds				
Purify Method	Filter cartridge				
Filter Cartridge Material	Polyurethane fiber membrane-coated filter cartridge				
Filter Cartridge Quantity	1	1	2	4	4
Filter Cartridge Size(mm)	φ325*500mm	φ325*500mm	φ325*600mm	φ325*660mm	φ325*660mm
Filtration Accuracy	0.5μm(default) / 0.3μm(optional)				
Filtration Efficiency	99.9%				
Default Air Inlet Size(mm)	φ100	φ150	φ200	φ250	φ250
Default Air Outlet Size(mm)	100 x 300	150 x 350	200 x 400	300 x 300	300 x 300
Machine Dimensions (L x W x H, mm)	500x500x1450	550x550x1450	650x650x1700	800x800x2000	800x800x2000
Vacuuming Method	Pipe connection vacuuming				
Fixing method	Fixed feet(default) / Movable universal wheels(optional)				

	FT-JCQ-4500	FT-JCQ-6000	FT-JCQ-10000	FT-JCQ-12000
Air Volume (m ³ /h)	4500-6000	6000-8000	8000-10000	10000-12000
Machine Case Material	Steel with paint(default) / Stainless steel(optional)			
Power (KW)	5.5KW	7.5KW	11	15
Power Supply Voltage	380V/three phase	380V/three phase	380V/three phase	380V/three phase
Air Pressure(Pa)	2014	2554	3187	3735
Self Cleaning Method	Pulse self cleaning			
Pulse Duration	0-9999 seconds			
Purify Method	Filter cartridge			
Filter Cartridge Material	Polyurethane fiber membrane-coated filter cartridge			
Filter Cartridge Quantity	4	6	9	9
Filter Cartridge Size(mm)	φ325*660mm	φ325*660mm	φ325*660mm	φ325*660mm
Filtration Accuracy	0.5μm(default) / 0.3μm(optional)			
Filtration Efficiency	99.9%			
Default Air Inlet Size(mm)	φ300	φ400	φ450	φ450
Default Air Outlet Size(mm)	350 x 350	400 x 400	400 x 400	400 x 400
Machine Dimensions (L x W x H, mm)	950x950x2100	1000x1200x2100	1200x1200x2300	1200x1200x2300
Vacuuming Method	Pipe connection vacuuming			
Fixing method	Fixed feet(default) / Movable universal wheels(optional)			

Physical Style Display & Field Application Cases



Pulse Fume Extractor



Pulse Fume Extractor



Stainless Steel Fume Extractor



Stainless Steel Movable Fume Extractor



Universal Arm Fume Extractor (Double Arms)



Stainless Steel Universal Arm Fume Extractor (Single Arm)



Laser Cutting Fume Extraction



Laser Cutting Fume Extraction



Laser Cutting Fume Extraction

Physical Style Display & Field Application Cases



Fume Extraction in Robotic Welding Room



Fume Extraction for PCB Depaneling Machine



Fume Extraction for Engraving Machine



Graphite Powder Fume Extraction



Fume Extraction for Powder Mixing



Fume Extraction for Welding Station



Fume Extraction for Cutting and Grinding



Fume Extraction for Polishing