



GREENWICH

Transforming Air ~ Enhancing Life

GREENWICH SOLUTIONS PVT. LTD.



Enhancing your industrial processes with cleaner air delivery

Fumes, Smoke, Oil Mist & Dust Control Solutions



About Us

TRANSFORMING
AIR

ENHANCING
LIFE

Founded by a team with over 10 years of collective experience in Air Filtration & Air Pollution Control Equipment solutions for industries, 'Greenwich Solutions Pvt. Ltd.' is committed to delivering cleaner air for industrial processes. Our goal is to provide multiple benefits by maximizing production and product quality, minimizing maintenance work, safeguarding employee health, and preserving the environment.

SOME KEY POINTS:

- ~ Offer the electrostatic & cartridge technology for the fumes, oil mist & dust filtration.
- ~ Our strengths include first-class advice, personal support, quick and individual problem-solving, as well as customer proximity. It is important to us that you fully enjoy the benefits of our air pollution solutions.
- ~ At 'Greenwich Solutions Pvt. Ltd.', we are passionate about delivering innovative products & right solution for you and are constantly exploring new ways to push the boundaries of what's possible in Air pollution solution. We take pride in our ability to deliver customized solutions that are tailored to the unique needs of each client, and we are committed to providing exceptional customer service and support.



Mission

To safeguard human health, protect machinery, and preserve the environment from harmful fumes and dust particles. By mitigating air pollution on the shop floor, we aim to achieve efficient production, create a safer workplace, and contribute to environmental conservation.

Vision

Our commitment to excellence and innovative solutions aims to set new standards, build industry trust, and make a positive impact on the communities we serve.

Core Values



Innovation

We are committed to staying at the forefront of Air pollution solution and constantly exploring new ways to push the boundaries of what's possible.



Customer focus

Our customers are at the heart of everything we do, and we are dedicated to delivering customized solutions that meet their unique needs and exceed their expectations.



Collaboration

We believe in working closely with our clients, partners, and team members to foster open communication, build trust, and achieve common goals.



Excellence

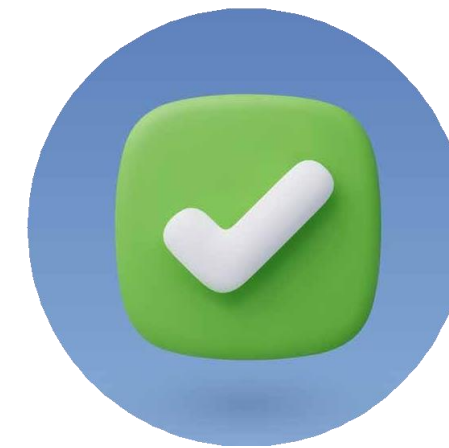
We strive for excellence in everything we do, from the quality of our solutions to the level of service we provide to our clients.

Core Values



Continuous improvement

We are always looking for ways to improve our processes, our solutions, and our organization as a whole, and we are open to feedback and suggestions from others.



Accountability

We take responsibility for our actions and outcomes, and we hold ourselves accountable for delivering results that meet or exceed our clients' expectations.



Integrity

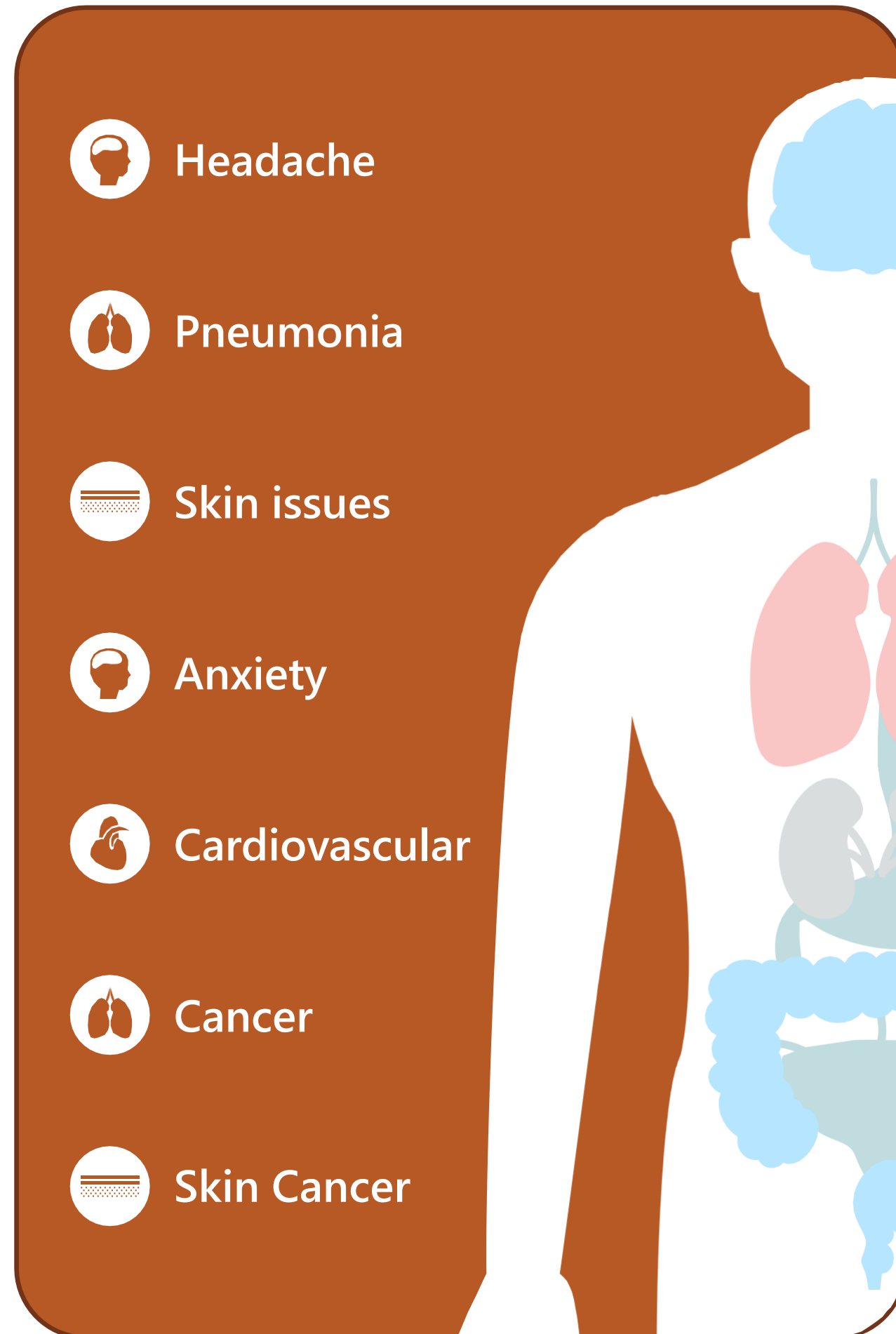
We are committed to maintaining the highest standards of integrity and ethical behaviour in all our business practices.

Sources of pollution in manufacturing Processes



- ~ Fumes & smoke in welding process
- ~ Oil/coolant Mist & Fumes in machining process like grinding, cutting etc.
- ~ Fumes generated in heat treatment processes like oil quenching, induction heating etc.
- ~ Fumes in brazing / soldering / Laser Marking / EDM wire cutting operations
- ~ Dust generated in grinding , buffing & polishing process
- ~ Dust & Fumes generated in plasma cutting ,Laser cutting operations
- ~ Dust & Fumes generated in forging & casting processes





Effects of Indoor Pollution on Shop floor

- ~ An increase in human health issues
- ~ Dust deposition on machines increases the maintenance work
- ~ Increase in unforeseen machine downtime
- ~ Facing quality issues about products
- ~ Reduces productivity
- ~ Dirty Shop floor

Benefits of Fume extraction systems



Advantages on your health

- ~ Reduce health issues
- ~ Reduce absenteeism
- ~ Better performance
- ~ Less staff turnover

Advantages of less pollutants

- ~ Less soot deposit
- ~ Cleaner shop floors
- ~ Reduces unforeseen downtime
- ~ Lower cleaning costs
- ~ Increases productivity

Advantages of compliance

- No fines
- Meeting standards
- More enjoyable working environment

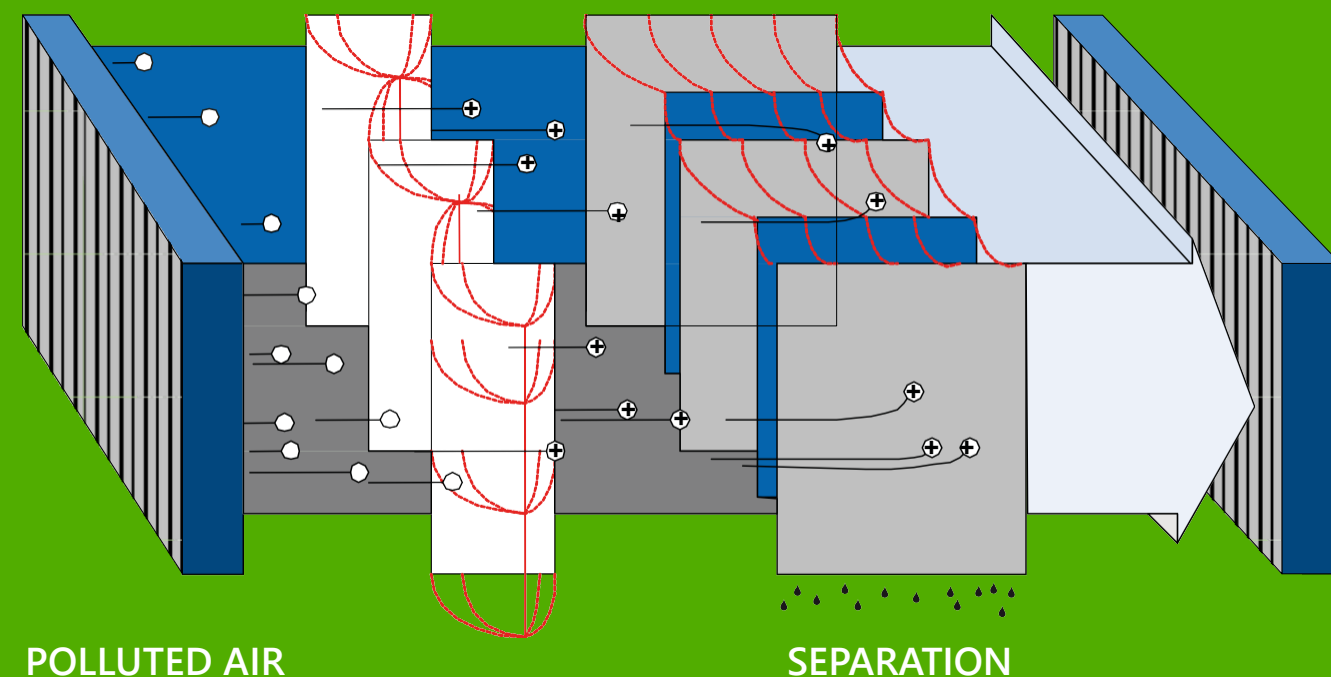


Electrostatic Precipitator Technology



- ~ A high-efficiency filter system for separation of aerosols and smoke
- ~ Minimal energy costs made possible by the lowest-feasible pressure drop
- ~ No costs or disposal problems with replacement media, as a result of electrostatic filter cells that are subject to practically no wear

PRE-FILTERS IONIZATION COLLECTION POST-FILTERS

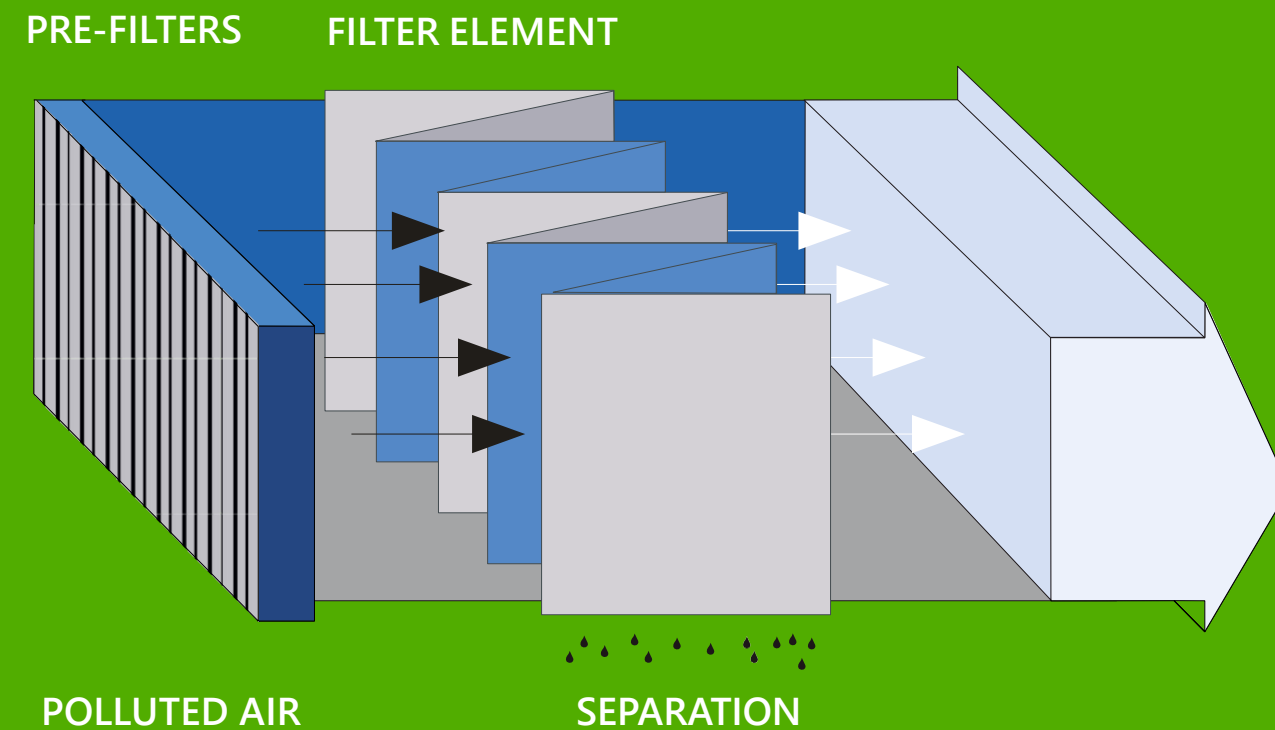


Electrostatic compact filtration systems operate based on the physical principle of deflection of electrically charged particles in an electric field. The medium that is to be filtered passes through the following process steps: pre-filter, ionization, collection and precipitation. The charged particles are neutralized in the downstream filter. The purified air can then be released outside.

Mechanical Filters



- ~ High-efficiency (99.99%) filter system
- ~ Efficient blower for optimal energy balance
- ~ Easy maintenance, all filters are replaceable



Mechanical filtration systems guide the contaminated air through a porous medium in which the dispersed solid or aerosol particles are restrained using different mechanisms.

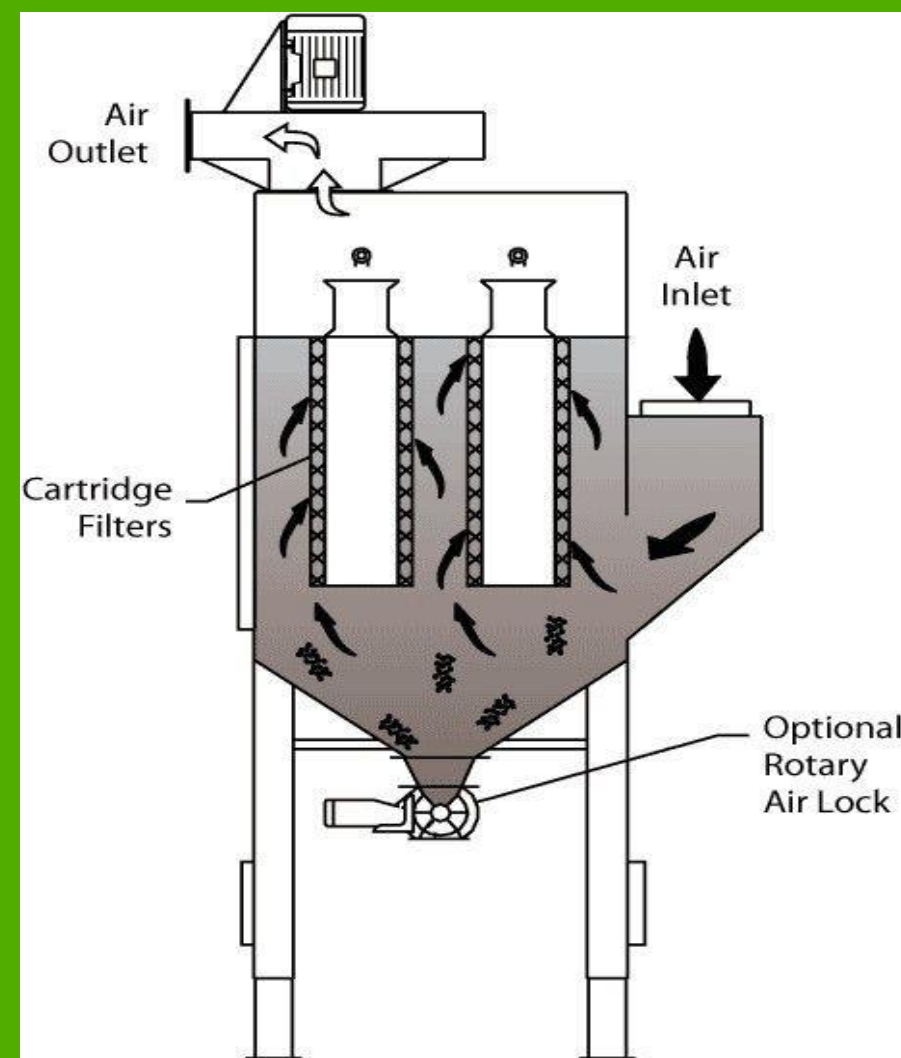
Different Filter Types:

- ~ Aluminium wire mesh metallic filter
- ~ HDP fine filters
- ~ Bag filters
- ~ Carbon filters
- ~ Hepa filters

Cartridge Technology



- ~ Effective and reliable filtration and separation of dry dust and smoke, especially in the metalworking industries
- ~ Retains high efficiency (99.99%)
- ~ Low maintenance – auto cleaning system



- ~ Dusty Air is sucked through the cartridge filters.
- ~ The dust layer builds on the outer surface of the filters
- ~ After preset time, compressed air jet is blown through the cartridge in reverse direction
- ~ Because of this, the dust built on the surface of filter falls down and gets collected in dust bin
- ~ The dust bin needs to be cleared periodically.

Product range



**Fume
Extractor**



**Oil Mist
Collector**



**Cartridge Dust
Collector**



**Dry
Scrubber**



Precision Air Solutions



FUME EXTRACTOR

- ~ WELDING FUME EXTRACTOR
- ~ SOLDER FUME EXTRACTOR
- ~ LASER MARKING FUME EXTRACTOR
- ~ EDM FUME EXTRACTOR

OIL MIST COLLECTOR

- ~ ESP TYPE OIL MIST COLLECTOR
- ~ HEPA TYPE OIL MIST COLLECTOR

CATRIDRGE DUST COLLECTOR

- ~ WELDING FUME DUST COLLECTOR
- ~ PLAZMA/LASER CUTTING DUST COLLECTOR
- ~ BAG TYPE DUST COLLECTOR

DRY SCRUBBER

- ~ DRY SCRUBBER FOR KITCHEN EXHAUST
- ~ ELECTROSTATIC AIR FILTERS

CENTRALIZED FUME EXTRACTION SYSTEM

- ~ FUME EXHAUST SYSTEM FOR WELD LINES
- ~ FUME EXHAUST SYSTEM FOR CNC /VMC MACHINE LINE

OTHER

- ~ GI DUCT MATERIAL
- ~ WELDING CURTAINS
- ~ HOSE PIPES
- ~ BLOWERS
- ~ WELD BOOTH

Precision Air Solutions



Standard Model Range						
		FEX-300	FEX-600	FEX-1200	FEX-2000	FEX-4000
Suction Capacity	CMH	300	600	1200	2000	4000
Filters	Pre Filter	Al Wire Mesh Filter	Al Wire Mesh Filter	Al Wire Mesh Filter	Al Wire Mesh Filter	Al Wire Mesh Filter
	Main Filter	Electrostatic	Electrostatic	Electrostatic	Electrostatic	Electrostatic
	After Filter	Activated Carbon Filter	Activated Carbon Filter	Activated Carbon Filter	Activated Carbon Filter	Activated Carbon Filter
Filtration Area	in M3	1.5	2.2	3.5	7.5	13
Filter Efficiency	In % particles	90% to 97%	90% to 97%	90% to 97%	90% to 97%	90% to 97%
High voltage Power Pack	Ionizer	8Kv	11Kv	11Kv	11Kv	11Kv
	Collector	4Kv	5.5Kv	5.5Kv	5.5Kv	5.5Kv
Blower Power (Watt)	Single Phase 230V±10%, 50Hz	120 Watt	240 Watt	360 Watt	720 Watt	N/A
	Three Phase 415V±10%, 50Hz	N/A	0.37k/w	0.5k/w	0.75k/w	1.5k/w
Machine Dimension(LxWxH)	in mm	300x300x700	400x1030x400	450x1030x400	600x1330x600	750x1730x830
Application		Solder Fume , Laser Marking	Solder Fume ,Laser marking,brazing ,EDM	Welding , Oil Mist	Welding , Oil Mist	Welding , Oil Mist
Note-* Due to continuous innovation, specifications are subject to change without notice.						

Pre Filter -Al Wire Mesh Filter • Main Filter - Electrostatic • After Filter -Al Wire Mesh Filter

Centralized Fume Extraction Systems



Centralized Oil Mist Collector Systems



Standard Fume Extractor



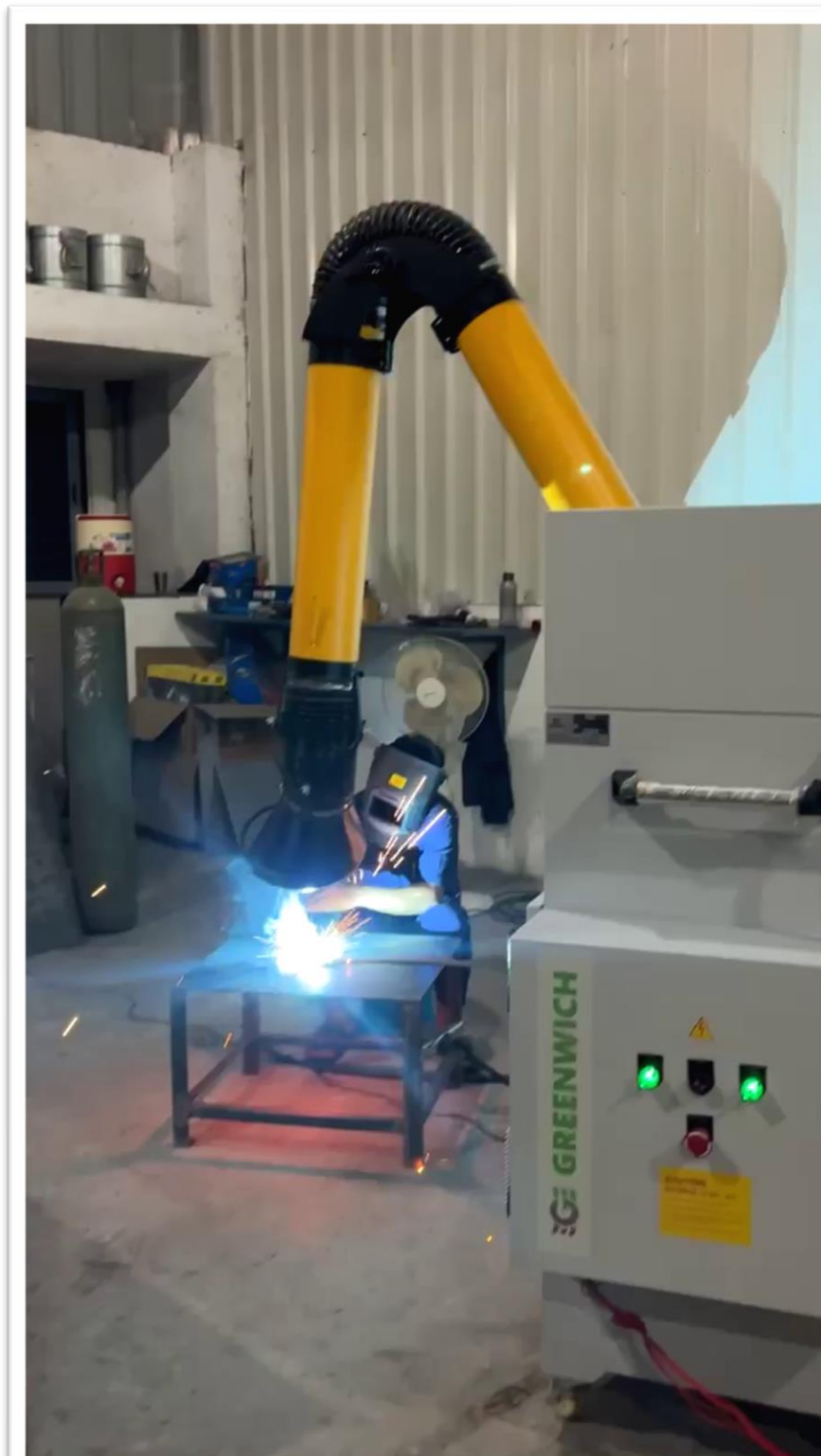
Oil mist collector



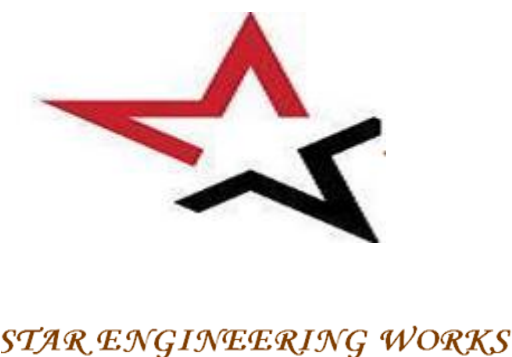
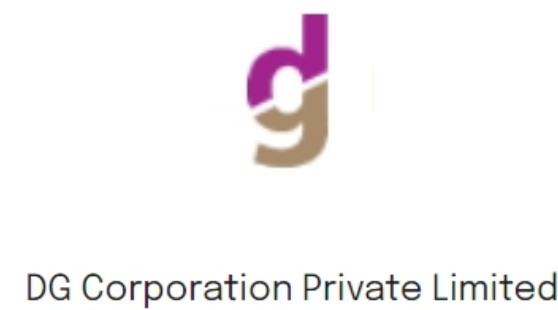
Electrostatic Air Cleaner (Dry Scrubber)



Portable fume extraction



Our Valuable Customers





Plant & Facility

GREENWICH SOLUTIONS PVT. LTD.

Registered Office:

C-410, 4th Flr, 5B-Janaranjani, Nanded City, Pune-411068

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Thank you!



TEAM
GREENWICH SOLUTIONS PVT. LTD.

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Note: This document is confidential