

Upto
98% Efficiency
100% Smoke Removal



Integrating
Air into Life

Commercial Kitchen
Oil Fume Purifier

www.crystalairsystems.co.in



About Us

Crystal Air, a market leader in Air Management System in India has been instrumental in transforming and breathing a wave of refreshing and cool air through its innovative products and air solutions.

Now we have introduced our new product:

Electrostatic Precipitator

Crystal Air Systems procure the electrostatic precipitator from international market to maintain the quality standards. The motive of the company is to focus on industrial plants as well as catering fumes and other environmental pollution control.

ESP Application Filed

Electrostatic fume purifier is widely used in commercial kitchens, textile industry setting machine exhaust gas treatment and recycling, rubber and PVC exhaust gas purification and recovery, artificial leather gas purification and recovery, wallpaper exhaust gas purification and recycling, metal processing, generators, food processing, building materials, hotels fumes and air catering and other industries as well as hospitals, schools and other public utilities area purification.

Why Us?

Some of the reasons, which make us a suitable business partner of your choice, are:

- Value for Money
- Stringent quality checks
- Association with reputed manufacturers ensures customized product procurement.
- Prompt delivery & after sales service.





Quality Policy

At Crystal Air Systems, We are committed to provide Pure Air to inhale & to save the environment as well through the experienced experts and world's latest technology. We at Crystal Air Systems Promise to our clients that the first opportunity offered to us will be the foundation stone for our long lasting business relationship.



Certification

- ISO 9001:2015 quality management system certification,
- The European CE safety certification

Company Philosophy

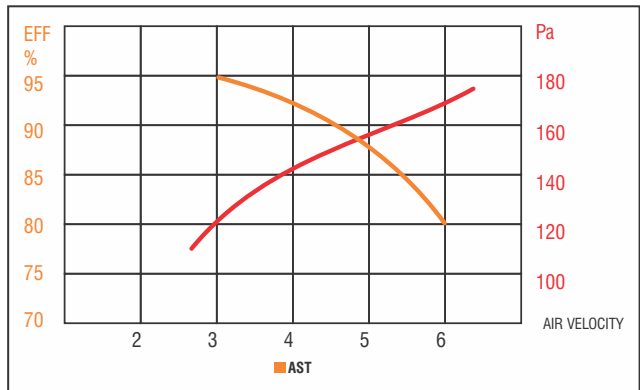
The philosophy of the company is to successfully develop, produce and market high quality Air Management Products across the globe, which ensures in the development of healthy environment thereby giving better quality of life. Aiming towards attainment of our goal, our endeavors are directed towards offering state-of-the-art Air technology not only within the country but catering rest of the world.



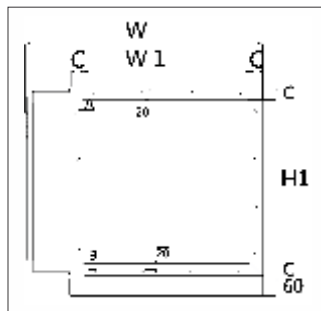
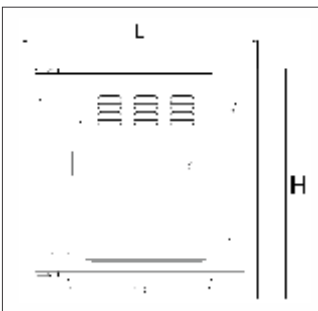
AST

High Efficiency Fume Purifier

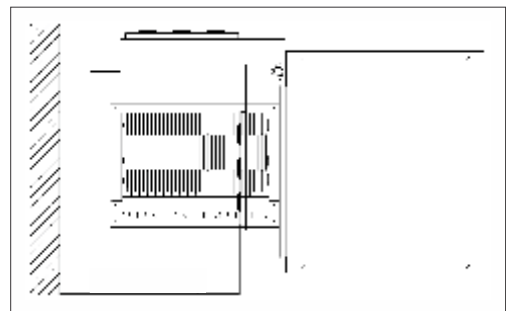
- Both for industrial oil mist purification, it can also be used for catering at low altitude emissions.
- PWM solid state high frequency high voltage current.
- Stainless steel ionizer, aviation aluminum dust collection unit Plate space 7mm.
- Open the door power-off protection design.
- Electric box configuration with cooling fan.
- Can be equipped with activated carbon filters (Optional).



► Dimensions



► Installation Space





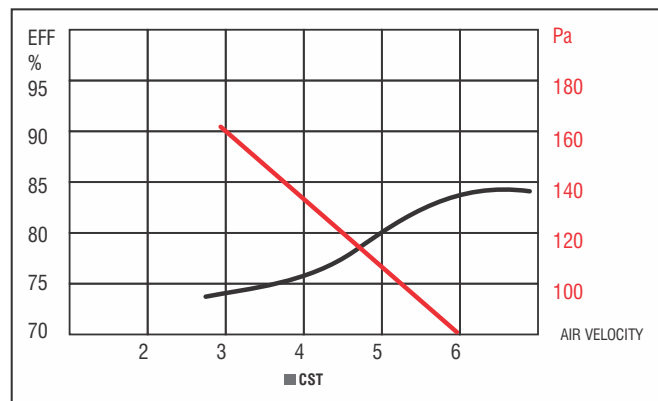
MODEL			AST-20	AST-20A	AST-40	AST-40A	AST-60
(m³/h) Air Volume	95% Efficiency	3m/s Air Speed	2300	3300	5500	6500	8500
	90% Efficiency	4.5m/s Air Speed	3500	4500	7500	9000	11500
Resistance (Pa)			<150	<150	<150	<150	<150
(L×W×H mm) Dimension			655*625*610	655*725*610	655*1125*610	655*1325*610	655*1625*610
(W1×H1 mm) Flange Size			410*470	510*470	910*470	1110*470	1410*470
Power Supply			220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
(KW) Power max			0.2	0.2	0.2	0.2	0.3
(mg/m³) Inflow Concentration			25	25	25	25	25
(mg/m³) Output Concentration			<1	<1	<1	<1	<1
Cabinet number			AST-20x1	AST-20Ax1	AST-40x1	AST-40Ax1	AST-60x1
Cell Quantity			1	1	2	2	3
Reserved maintenance space			0.6	0.6	0.6	0.6	0.6



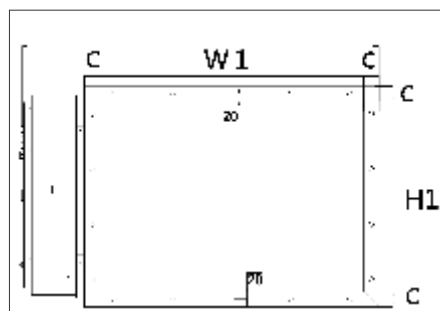
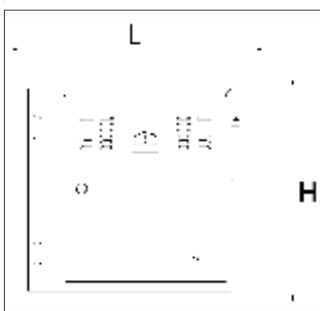
MODEL			AST-60A	AST-100	AST-120	AST-150	AST-180
(m³/h) Air Volume	95% Efficiency	3m/s Air Speed	10500	13000	17000	21000	25500
	90% Efficiency	4.5m/s Air Speed	13500	18000	23000	27000	34500
Resistance (Pa)			<150	<150	<150	<150	<150
(L×W×H mm) Dimension			655*1925*610	655*1325*1220	655*1625*1220	655*1925*1220	655*1625*1830
(W1×H1 mm) Flange Size			1710*470	1110*1080	1410*1080	1710*1080	1410*1690
Power Supply			220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
(KW) Power max			0.3	0.4	0.6	0.6	0.9
(mg/m³) Inflow Concentration			25	25	25	25	25
(mg/m³) Output Concentration			<1	<1	<1	<1	<1
Cabinet number			AST-60Ax1	AST-40Ax2	AST-60x2	AST-60Ax2	AST-60x3
Cell Quantity			3	4	6	6	9
Reserved maintenance space			0.6	0.6	0.6	0.6	0.6

High Efficiency Fume Purifier

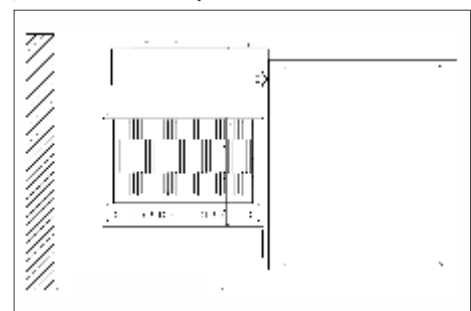
- Both for industrial oil mist purification, it can also be used for catering at low altitude emissions.
- PWM solid state high frequency high voltage current.
- Stainless steel Ionizer, aviation aluminum dust collection unit Plate space 23mm.
- Open the door power-off protection design.
- Electric box configuration with cooling fan.
- Can be equipped with activated carbon filters (Optional).



► Dimensions



► Installation Space





MODEL			CST-20	CST-40	CST-60	CST-80
(m ³ /h) Air Volume	90% Efficiency	3m/s Air Speed	4000	6000	8000	12000
	80% Efficiency	4.5m/s Air Speed	5500	9000	12000	18000
Resistance (Pa)			<150	<150	<150	<150
(L×W×H mm) Dimension			645*915*570	645*1320*570	645*1690*570	645*1320*1140
(W1×H1 mm) Flange Size			680*490	1085*490	1455*490	1085*1060
Power Supply			220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
(KW) Power max			0.2	0.2	0.2	0.4
(mg/m ³) Inflow Concentration			10	10	10	10
(mg/m ³) Output Concentration			<1	<1	<1	<1
Cabinet number			CST-20x1	CST-40x1	CST-60x1	CST-40x2
Cell Quantity			1	2	2	4
Reserved maintenance space			0.8	0.8	0.8	0.8



MODEL			CST-100	CST-120	CST-150	CST-180
(m ³ /h) Air Volume	90% Efficiency	3m/s Air Speed	16000	18000	24000	32000
	80% Efficiency	4.5m/s Air Speed	24000	27000	36000	48000
Resistance (Pa)			<150	<150	<150	<150
(L×W×H mm) Dimension			645*1690*1140	645*1320*1710	645*1690*1710	645*1690*2280
(W1×H1 mm) Flange Size			1455*1060	1085*1630	1455*1630	1455*2200
Power Supply			220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
(KW) Power max			0.4	0.6	0.6	0.8
(mg/m ³) Inflow Concentration			10	10	10	10
(mg/m ³) Output Concentration			<1	<1	<1	<1
Cabinet number			CST-60x2	CST-40x3	CST-60x3	CST-60x4
Cell Quantity			4	6	6	8
Reserved maintenance space			0.8	0.8	0.8	0.8

UV



UV-C & Ozone Clean System



Principle of sterilization, deodorization

Short wavelength (below 200nm) ultraviolet decomposed O_2 molecules to produce ozone O_3 . UV and ozone has a strong ability to oxidation and decomposition of organic molecules, including odor, UV/ O_3 multiplied with the power to play a strong role in air purification process.



MODEL			A-UV-20	A-UV-20A	A-UV-40	A-UV-40A
Air Volume (m ³ /h)	95% Efficiency	3m/s Air Speed	2300	3300	5500	6500
	90% Efficiency	4.5m/s Air Speed	3500	4500	7500	9000
Resistance (Pa)			<50	<50	<50	<50
(L×W×H mm) Dimension			655*625*610	655*725*610	655*1125*610	655*1325*610
(W1×H1 mm) Flange Size			410*470	510*470	910*470	1110*470
Power Supply			220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
(KW) Power max			0.04	0.04	0.09	0.09
Lamp Length (mm)			450	550	950	1150
UV Lamp			C Wave band 185nm	C Wave band 185nm	C Wave band 185nm	C Wave band 185nm
Lamp Quantity			8	8	8	8
Lamp Service Life (h)			9000	9000	9000	9000
Prefilter			Metal Filters	Metal Filters	Metal Filters	Metal Filters
Temperature (°C)			<70	<70	<70	<70



MODEL			A-UV-60	C-UV-20	C-UV-40	C-UV-60
Air Volume (m ³ /h)	95% Efficiency	3m/s Air Speed	8500	4000	6000	8000
	90% Efficiency	4.5m/s Air Speed	11500	5500	9000	12000
Resistance (Pa)			<50	<50	<50	<50
(L×W×H mm) Dimension			655*1625*610	645*915*570	645*1320*570	645*1690*570
(W1×H1 mm) Flange Size			1410*470	680*490	1085*490	1455*490
Power Supply			220V 50/60Hz	220V 50/60Hz	220V 50/60Hz	220V 50/60Hz
(KW) Power max			0.15	0.04	0.09	0.15
Lamp Length (mm)			1450	720	1120	1490
UV Lamp			C Wave band 185nm	C Wave band 185nm	C Wave band 185nm	C Wave band 185nm
Lamp Quantity			8	8	8	8
Lamp Service Life (h)			9000	9000	9000	9000
Prefilter			Metal Filters	Metal Filters	Metal Filters	Metal Filters
Temperature (°C)			<70	<70	<70	<70

Product Details

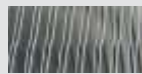


PTFE Insulation materials

- Use in high temperature, high pressure, high humidity area, corrosion-resistant.
- Electrical insulation and good anti-aging endurance
- Effectively overcome the defect of brittle ceramic insulation materials
- Completely isolated current
- To prevent and eliminate electric arc, high safety coefficient

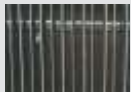
Removable drawer design

- Easy to clean and maintain.
- Open the door with power-off protection high safety.



Aviation aluminum-intensive low pressure collection zone

- Aviation aluminum material
- Durable and light weight.
- Safe and comfortable, compliance with the safety standards of industrial design
- Stainless steel high pressure contactor, not easily deformed, Easy to clean



Tungsten type ionization design

- Strong ionization capability, no maintenance trouble
- Anti-oil type ionization improve the purification efficiency.

High voltage insulation materials

- No electric wood or plastic insulation, high safety efficient.
- Isolated current, help to prevent and eliminate the electric arc.
- Resistance to high temperature and high pressure, easy to clean
- Long life design, prevent oil precipitated in the surface of the insulating layer.



Prefilter

- Material: Aluminum honeycomb filter, aluminum alloy frame.
- Large surface area.
- Small wind resistance.

The prefilter of the fume through mechanical way, 10%-20% of large oil beads was intercepted at the inlet of the gas suction hood, oil fume purification equipment overall improve 20%-30% efficiency of removal oil fume.



Rear filter (Optional)

- Material: Activated carbon particles.
- Rapid removal the odor.

The material has a strong physical adsorption and chemical adsorption, it can adsorb certain organic compounds so as to achieve the effect of removing. Using this principle, we will be able to quickly and effectively remove the air of harmful substances, pigments, etc., and remove the peculiar smell of sustainability and winds resistance stability is better, make the air get directed and rapid change.

PWM solid state high frequency high voltage current

- Strong power
- High utilization of the energy
- Constant current output stability
- The single power output is biggest in the industry

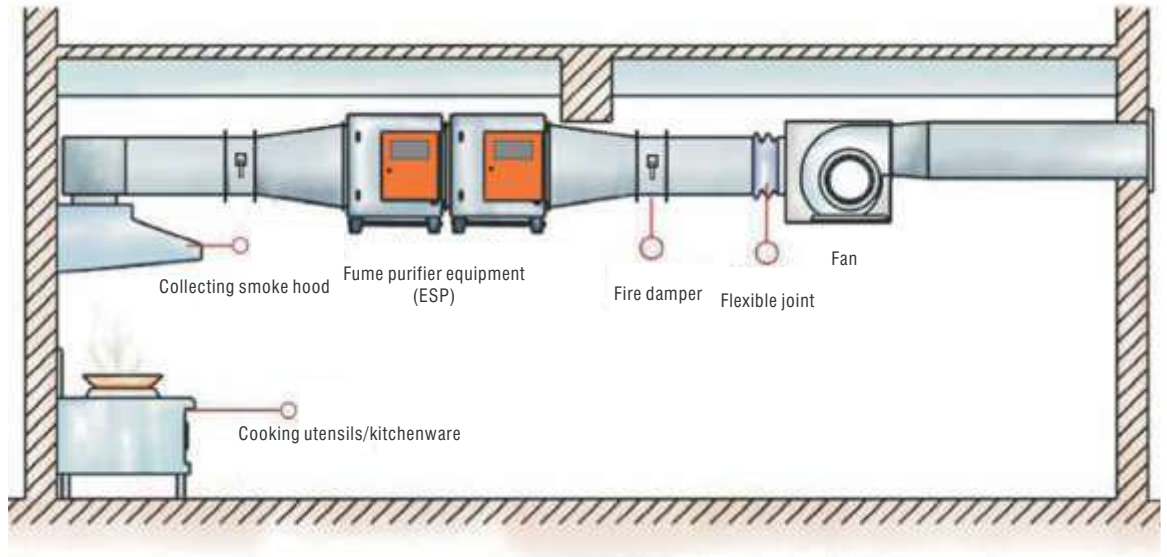


High security, with multiple protection function

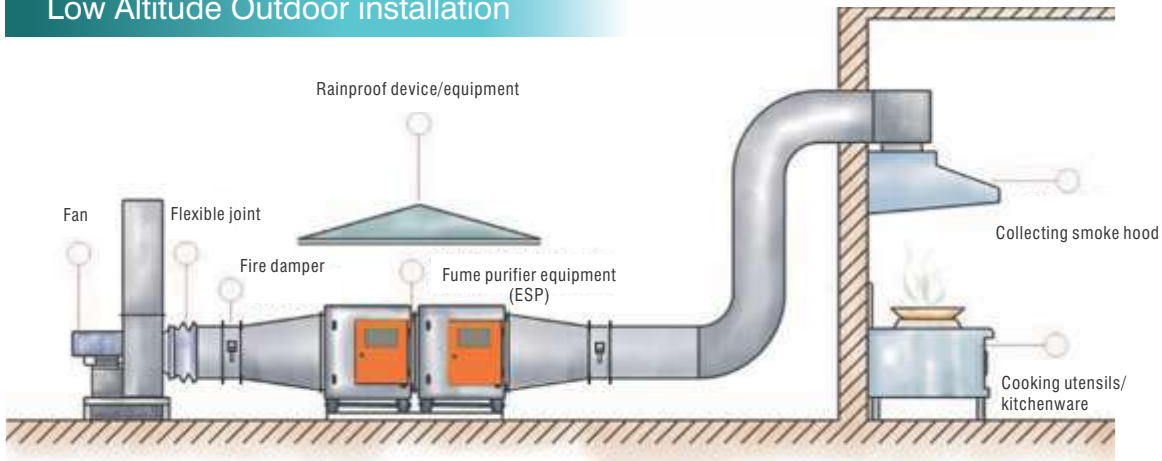
- Electric arc protection
- Repeatedly discharge protection
- High voltage open circuit protection
- High voltage short circuit protection
- Current overload protection
- Transformer over temperature protection

Installation Diagram

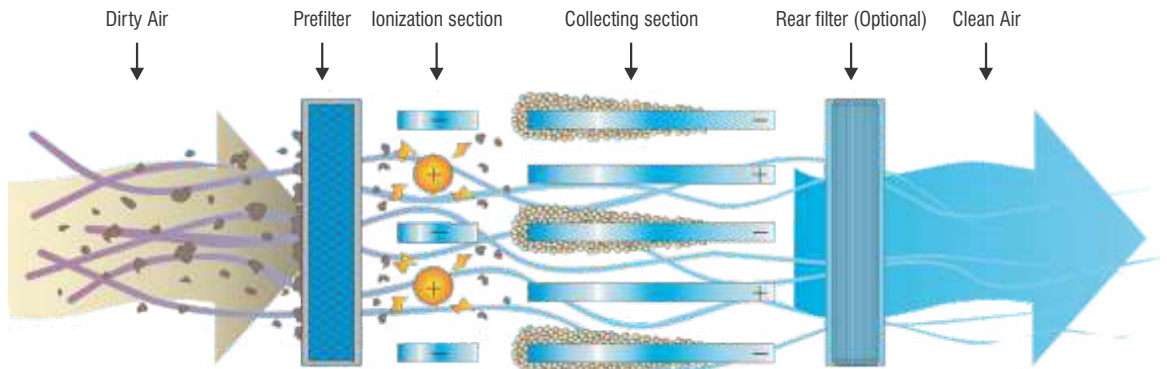
Low Altitude Indoor Hoisting



Low Altitude Outdoor installation



Working Principle



Prefilter

Two parts composed to highly polished swirl and stainless steel wire filter have the ability of filtering most of the large particles of oil mist, different configuration to be selected according to the types and concentrations of oil mist at scene.

Ionization section

The electric filed formed between the high-voltage electrode wire and the electrode plate will ionize the small oil particles of oil to charge them.

Collecting section

The charged particles are adsorbed onto electrode plate and the oil droplets are flowing into the recycling through by the smooth electrode plate surface.

Rear filter (Optional)

Further strengthen purification efficiency, eliminate odor, according to the need to configure the hepa filter or activated carbon filter.



Our other Products Range

Crystal Air Systems has a wide range of Air Distribution products some of few are given below:

- Air Handling Units
- Fan Coil Units
- Air Washers
- Scrubbers Wet Type
- Scrubbers Dry Type
- Axial Flow Fans
- Air Exhaust
- Fresh Air Units
- Cassette Units
- Filters
- Coils
- Air Distribution Products
(Grill, Diffuser, Dampers etc.)



Works :

Unit I : 47/5-6, Ganpati Ind. Area, Opp. Omaxe City,
Bahadurgarh (HR)-124507

Unit II : 1970, MIE Part B, Bahadurgarh, Haryana-124507
Tel. : 01276-645439, 01276-241493

Head Office :

E-2, 2nd Floor, Kalkaji Main Market, New Delhi-110019

Tel. : 011-49057211, 011-49053555

Email : info@crystalairsystems.co.in | crystal_air@rediffmail.com

Branches : MUMBAI | BANGALURU | CHENNAI | KOLKATA

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