

CLEAN AIR SYSTEM
AT AIRTECH21[®] CO., LTD
www.airtech21.co.kr



Total Environment

AIRTECH21 CLEAN AIR SYSTEM can be used in all workplace where polluted indoor air needs to be filtered.



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SYSTEM OVERVIEW

AIRTECH21 CLEAN AIR SYSTEM can be used in all workplaces where polluted indoor air needs to be filtered.

APPLICATION RANGE OF AIRTECH21 CLEAN AIR SYSTEM

This SYSTEM can be applied in all workplaces where polluted indoor air due to different reasons needs to be filtered. Usually, if particle size is less than 0.01μ , AIRTECH21 CLEAN AIR SYSTEM can be applied effectively, and it can be applied to treat those below.

- Oil Mist / Smoke - BOLT / NUT processing
- NC lathe, NC MILLING, FORMING M/C
- Tobacco Smoke
- CALENDER process, TENTER process
- Poisonous Gas
- Diesel Smoke
- Rubber Dust / Grinding Dust / Plastic Dust
- Other Smell
- Other Smoke / Dust

CHARACTERISTICS OF ATC SERIES

ATC SERISE - ORDER SPECIFICATION

- Customized products available ranging from at least $10\text{m}^3/\text{min}$ to $5,000\text{m}^3/\text{min}$
- Installing TANDEM TYPE (DOUBLE PASS TYPE) or TRIPLE PASS TYPE according conditions of pollution sources. (vinyl, wall paper, flooring, safety net, manufacturing process, etc)
- Alteration of FAN & MOTOR specification according to installing conditions of DUCT
- The lowest price for installing electrostatic precipitators in and out of the country
- Compatible parts with imported electrostatic precipitators

ATC SERISE - BASIC SPECIFICATION

- Standardized at least from $20\text{m}^3/\text{min}$ to $200\text{m}^3/\text{min}$
- Embedded FAN MOTOR (Integral type or External type)
- No concern for corrosion due to electro deposition coating (exterior)
- Inverter operation available (OPTION)
- Indoor installation available



New Technology

Active introduction of developed new technology and new technique



Quality

Customer satisfaction with the excellent quality

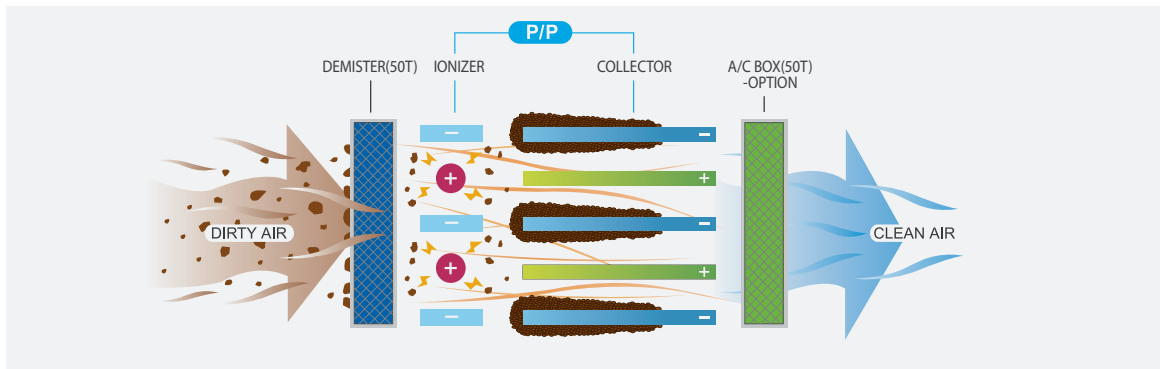


Cost reduction

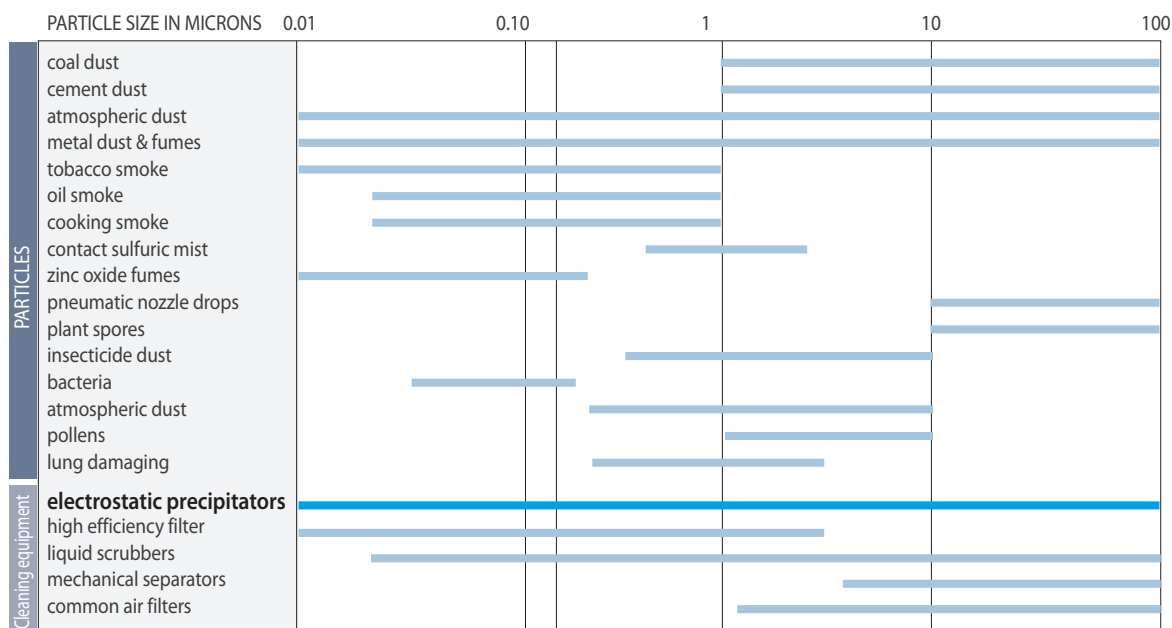
Realization of Customer surprise with cost reduction and on-time delivery



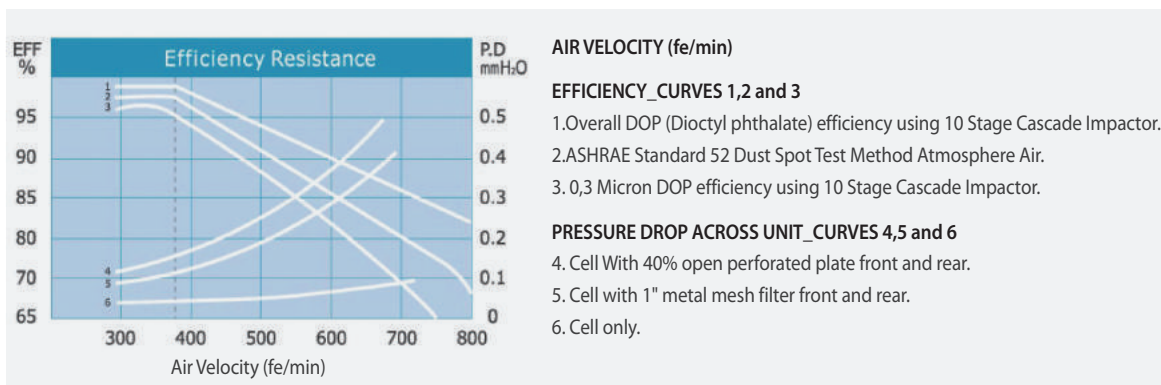
OPERATION PRINCIPLES OF DOUBLE STEP CHARGING-TYPE ELECTROSTATIC PRECIPITATOR



PARTICULATE SIZE



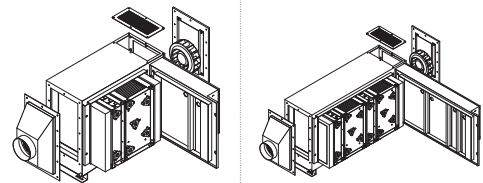
ELECTROSTATIC EFFICIENCIES AND PERFORMANCE



Small-Sized Electrostatic Precipitator ATC-1200 (10~20m³/min)



Layout



ATC-1200

ATC-1200D



SPECIFICATION

Model No.	Unit Type	Dimension			Unit Q'ty	Air Capacity(max)	Power Input	Volt /Phase
		B	W	H				
ATC-1200	Single	480	765	650	1	20m ³ /min x 70mmAq	0.25KW	220/1Ø
ATC-1200D	Double	480	1160	650	2	20m ³ /min x 70mmAq	0.25KW	

※ Separate inquiry is required on Size & Type because HOPPER Part is optional.

※ ATC-Series has integral-type Fan & Motor. If requested, they can be removed.

Installation Figures



ATC-1200

ATC-1200

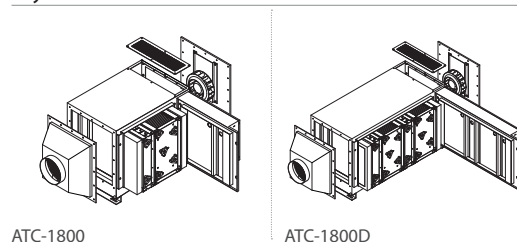
ATC-1200D



Small-Sized Electrostatic Precipitator ATC-1800 (20~40m³/min)



Layout



ATC-1800

ATC-1800D



SPECIFICATION

Model No.	Unit Type	Dimension			Unit Q'ty	Air Capacity(max)	Power Input	Volt /Phase
		B	W	H				
ATC-1800	Single	650	765	650	1	30 m ³ /min x 80mmAq	0.25KW	220/1Ø
ATC-1800D	Double	650	1160	650	2	30 m ³ /min x 80mmAq	0.25KW	

- ※ Separate inquiry is required on Size & Type because HOPPER Part is optional.
- ※ ATC-Series has integral-type Fan & Motor. If requested, they can be removed.

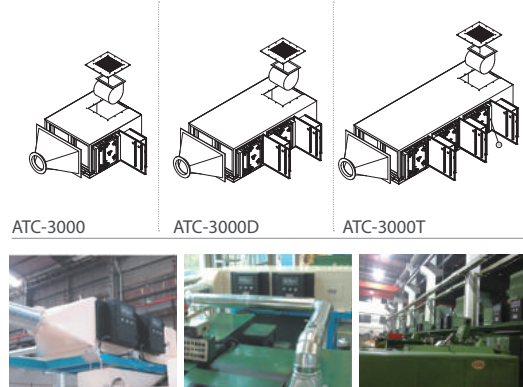
Installation Figures



Medium-Sized Electrostatic Precipitator ATC-3000 (40~60m³/min)



Layout



SPECIFICATION

Model No.	Unit Type	Dimension			Unit Q'ty	Air Capacity(max)	Power Input	Volt /Phase
		B	W	H				
ATC-3000	Single	1200	1200	650	2	50m ³ /min x 35mmAq	0.75KW	220, 380/3Ø
ATC-3000D	Double	1200	1800	650	4			
ATC-3000T	Triple	1200	2500	650	6			

- ※ Separate inquiry is required on Size & Type because HOPPER Part is optional.
- ※ ATC-Series has integral-type Fan & Motor. If requested, they can be removed.

Installation Figures



ATC-3000D



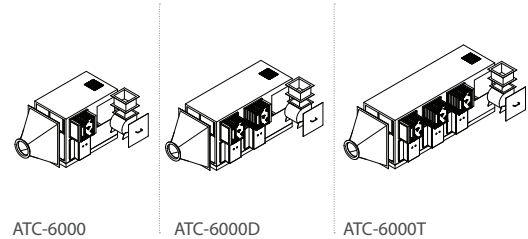
ATC-3000D



Medium-Sized Electrostatic Precipitator ATC-6000 (80~120m³/min)



Layout



ATC-6000

ATC-6000D

ATC-6000T



SPECIFICATION

Model No.	Unit Type	Dimension			Unit Q'ty	Air Capacity(max)	Power Input	Volt /Phase
		B	W	H				
ATC-6000	Single	1100	1400	1250	4	100 m ³ /min x 38mmAq	1.5KW	220, 380/3Ø
ATC-6000D	Double	1100	2000	1250	8			
ATC-6000T	Triple	1100	2700	1250	12			

※ Separate inquiry is required on Size & Type because HOPPER Part is optional.

※ ATC-Series has integral-type Fan & Motor. If requested, they can be removed.

Installation Figures



ATC-6000D



ATC-6000D

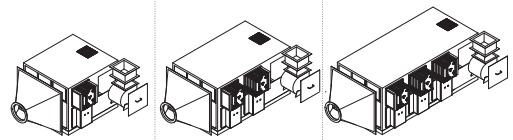


ATC-6000D

Medium-Sized Electrostatic Precipitator ATC-8000 (120~170m³/min)



Layout



ATC-8000

ATC-8000D

ATC-8000T



SPECIFICATION

Model No.	Unit Type	Dimension			Unit Q'ty	Air Capacity(max)	Power Input	Volt /Phase
		B	W	H				
ATC-8000	Single	1600	1400	1250	6	150m ³ /min x 60mmAq	2.2KW	220, 380/3Ø
ATC-8000D	Double	1600	2000	1250	12			
ATC-8000T	Triple	1600	2700	1250	18			

- ※ Separate inquiry is required on Size & Type because HOPPER Part is optional.
- ※ ATC-Series has integral-type Fan & Motor. If requested, they can be removed.

Installation Figures



ATC-6000T



ATC-8000D



ATC-8000T

SPAER PART with Model AT SERIES Electronic

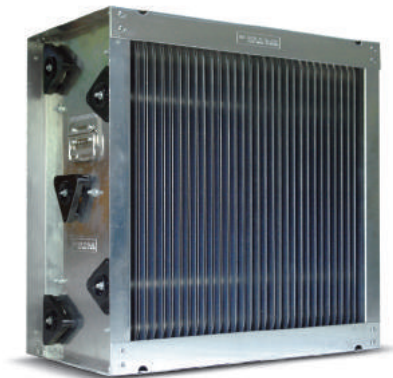


IONIZER (Discharging CELL)

PART NO : AT-I-ST01

There is no concern on breaking of wire because it is SPIKED TYPE not existing WIRE TYPE, and various methods are improved through theory, experiments and technical data to enhance precipitation efficiency. Also, it is designed without any concern on corrosion. In addition, it can be used semi-permanently when maintained appropriately.

• Registration of utility model no. 20-2001-0020218



COLLECTING CELL (Precipitation Part)

PART NO : AT-C-ST01

It is the part where ionized pollutants are adsorbed, so length and cross-section of precipitation plate, intervals between precipitation plates, material location of insulators, etc. are optimally designed for various pollutants.

• Patent no. 10-0722863

Usage	Interval	Thickness	P/N
DUST	0.8mm	0.6T	52002-002-1
MIST	0.6mm	0.6T	52002-002-2



POWER PACK (high voltage part)

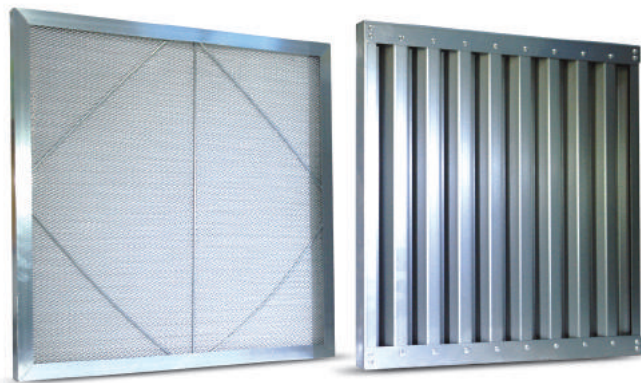
PART NO : AT-PP-ST01

POWER PACK contains the function to change 220V alternating current into DC high-voltage (12KVDC) necessary for IONIZER and precipitation part. For the safety, electric current in a high voltage section is limited to 2mA and maximum to 5mA when substances with low ignition point are inhaled.

• Registration of utility model no. 20-2002-0018927



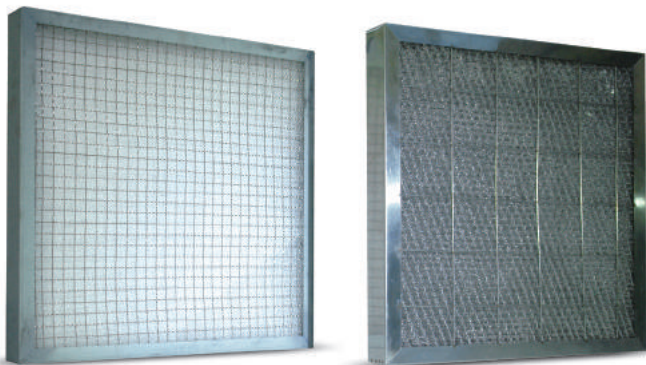
SPAER PART with Model AT SERIES Electronic



FOOD FILTER **PART NO : AT-F-ST01** & IMPINGER **PART NO : AT-IM-ST01**

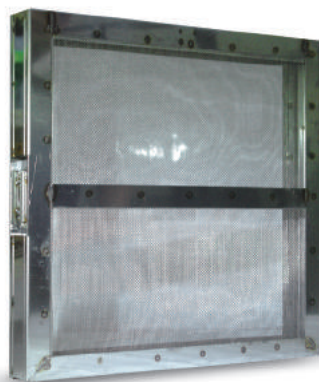
FOOD FILTER – It is optional, and it is installed in the front to precipitate large-volume pollutants.

IMPINGER – It is optional, and it is installed in the front to spread wind evenly.



DEMISTER **PART NO : AT-D-ST01** (P/P & SUS) **PART NO : AT-D-ST02**

DEMISTER is installed in the front of an electrostatic precipitator (IONIZER) acting as PRE-FILTER, and it precipitates relatively large-volume pollutants.



ACTIVE CARBON FILTER **PART NO : AT-AC-ST01**

A/C FILTER is optional and the concept of AFTER-FILTER. It has an excellent effect to remove odor after precipitation, and it is made of ALL SUS materials to improve practicality regarding BOX form and durability.



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