



United Air Specialists, Inc.

a CLARCOR company

PSH SERIES



Modular ESP Mist Collectors

Clean air. It's what we do.™

PSH SERIES

Solving AND Controlling COMPLEX PROCESS EMISSIONS.

INDUSTRIAL AIR CLEANERS — ONE SIZE DOESN'T FIT ALL

Since no single air cleaning technique is able to control every industrial emissions problem, the engineers at United Air Specialists (UAS) developed the Smog-Hog® PSH Series.

This modular system can be constructed in a variety of sizes to fit your company's specific dimensional and application needs. PSH units can be installed indoors or outside a facility, and use a combination of filtering processes to precondition and clean even the most polluted airstreams.

APPLICATIONS

Developed specifically to collect heat-generated organic vapors and particulate, PSH mist collectors control hazardous emissions which pose a threat to the environment and your business. These units are ideal for companies that need a customized engineered solution for tough emissions from asphalts, industrial cooking, plasticizers, manufacturing processes, textiles and rubber.

COMMON USES

Asphalts	Industrial Cooking	Plasticizers	Manufacturing Processes	Textiles	Rubber
<ul style="list-style-type: none"> • Coatings • Hot mix plants • Saturators 	<ul style="list-style-type: none"> • Coffee/Peanut roasters • Hot oil fryers • Smokehouses 	<ul style="list-style-type: none"> • Blown film • Calandaring • Curing oven • Coatings • Extrusion • Nylon • Plastics • Polyethylene • Polystyrene • Texturizing • Vinyl 	<ul style="list-style-type: none"> • Furnaces • Laser etching and cutting • Metal sintering • Oil mist or smoke • Soldering • Wax vapors • Wire drawing 	<ul style="list-style-type: none"> • Tenter frame ovens • Yarn coating and extrusion 	<ul style="list-style-type: none"> • Buffing • Curing • Grinding • Recycling



Clean air. It's what we do.™

CONFIGURED TO YOUR NEEDS

Smog-Hog® PSH systems offer the unique flexibility to accommodate any air volume or building parameter, including areas where traditional exhaust configurations are impractical. A UAS Representative can assist you in selecting the right system for your facility. Before recommending a unit, a factory-trained Representative will carefully evaluate precooling, heat recovery, odor control and other criteria in your plant. Then, a PSH system is created specifically to match your company's requirements.

In addition to the basic PSH unit, which includes the Cabinet, Power Pack, Ionizers and Collection Cells, an assortment of airstream conditioning equipment is available to complement the central system.

Preconditioning System

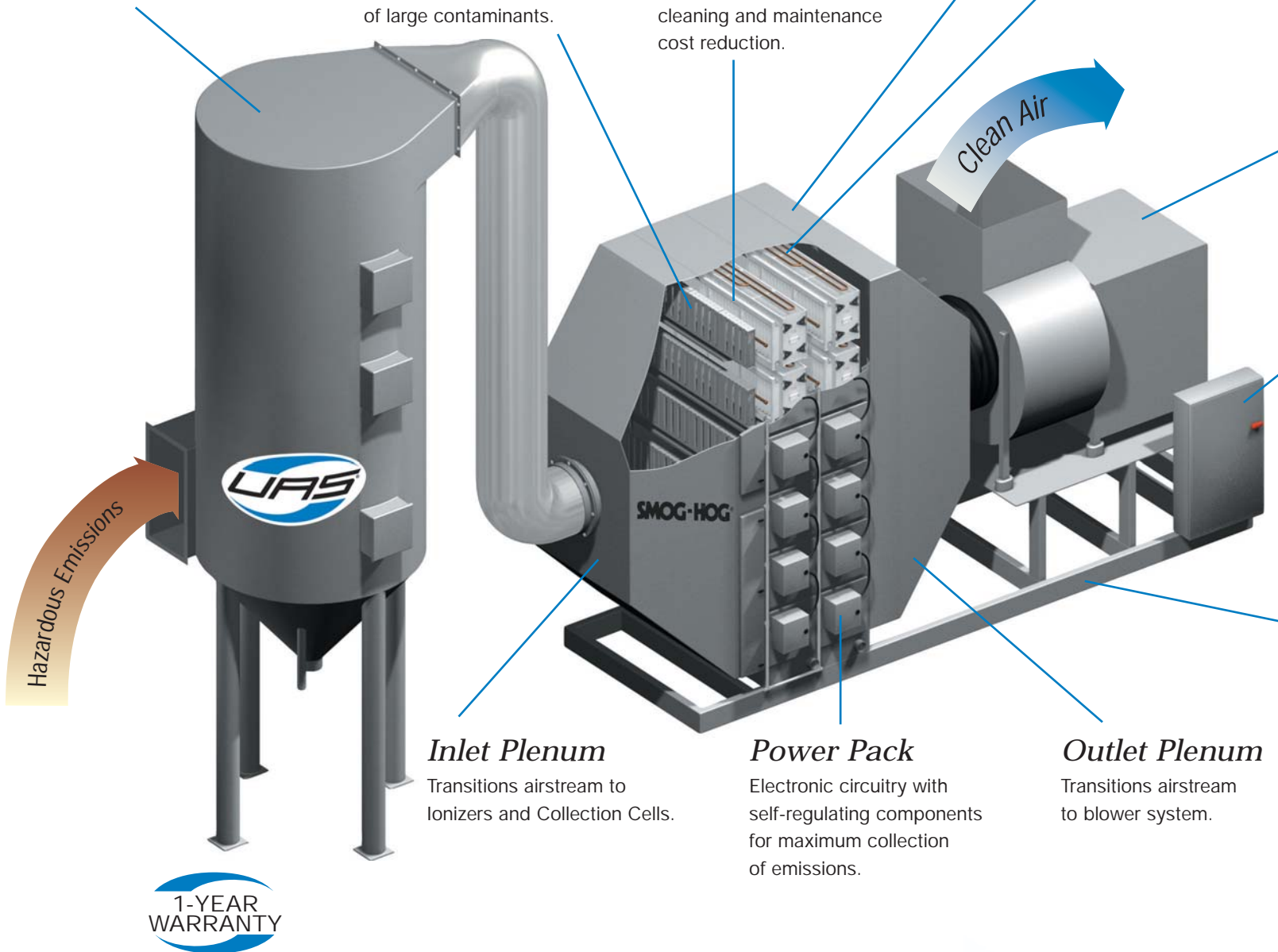
Process optimizes airstream temperature and humidity for maximum collection of large contaminants.

Impingement Baffle Prefilter

Adjustable interlocking "C" channels provide tortuous path for even airflow distribution and collection of large contaminants.

In-Place Cleaning System

Fixed-face and overhead wash headers clean collection components in place. PLC controlled for optimum cleaning and maintenance cost reduction.



Inlet Plenum

Transitions airstream to Ionizers and Collection Cells.

Power Pack

Electronic circuitry with self-regulating components for maximum collection of emissions.

Outlet Plenum

Transitions airstream to blower system.

Cabinet

Heavy gauge steel construction area collects and drains emissions to a bottom sump. Sumps and drains handle all contaminant run-off from in-place cleaning system.

Ionizers and Collection Cells

Unique airfoil design with convoluted insulators and heavy-duty tungsten ionizer wires ensure maximum efficiency, reduced maintenance and long life.

System Blower

Blower includes backward inclined wheels for quiet, efficient operation.

Controls

Skid-mounted panel can operate all equipment functions. Panels can be remote-mounted as required, and entire system can be tied to a plant-wide distributive control system.

Structural Steel Skid

Heavy structural channel base integrates system and facilitates installation.



...ability to handle airflow applications ranging from 750 to 40,000 CFM.



THE ESP EDGE

The key to the PSH Series' superior performance is electrostatic precipitation. Used by UAS engineers for more than 35 years, this process charges particles and strips them from the airstream via an electrostatic field, capturing even submicronic contaminants, and leaving only clean air to be exhausted from the unit. The result is cleaner air and the elimination of costly compliance problems.

EFFICIENT AND SAFE

The PSH Series offers the highest efficiency levels in emission collection, with the ability to handle airflow applications ranging from 750 to 40,000 CFM. Each system comes equipped with Ionizers, which effectively charge particles and ensure even distribution of energy across Collection Cells.

PSH units use a nonlethal, UL-listed power supply for safe operation and maintenance by specially trained plant personnel. The low-energy, self-regulating power supply adjusts voltage based on contaminant loading, assuring safe and continuous operation at the highest efficiency level.



Improve industrial air quality now and avoid costly fines and retrofit expenses in the future!



FACE COMPLIANCE ISSUES HEAD ON

PSH units ensure compliance with even the strictest federal, state and local environmental standards. These systems work hard to stop contaminants before they settle on neighboring parking lots and buildings—helping you and your company maintain a positive image and avoid costly compliance fines. Visible industrial process emissions are eliminated, and odors are reduced!

WHY CHOOSE UNITED AIR SPECIALISTS?

A world-renowned reputation. For more than 35 years, we've been the industry leader in air quality technology — a proven track record that speaks for itself.

Commitment to quality products. Measuring our quality against documented expectations, we practice continuous improvement methods to anticipate challenges and implement successful solutions.

Unparalleled customer support. As a customer-driven solutions provider, we earn credibility and establish successful relationships by exceeding expectations for professional service and attitude.

Innovative technical leadership. Always, we keep technology at the forefront — ensuring continuous product advancements through ongoing investments in design and manufacturing.

UAS HEADQUARTERS – USA

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UAS – UNITED KINGDOM

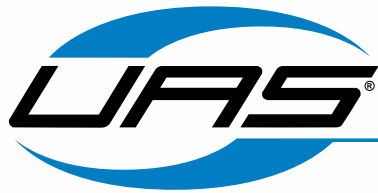
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Clean air. It's what we do.™



United Air Specialists, Inc.

a CLARCOR company

SMOG-HOG® MSH

Make a big impact in a small space

Smog-Hog® is the most recognized name for effective removal of mist and smoke within the metalworking industry. Our electrostatic precipitators (ESPs) have been cleaning the air and recycling machining fluids for companies around the world for more than four decades. And now, a smaller, more compact Smog-Hog is available for airflows up to 600 CFM—the MSH model. Like our other ESPs, the MSH is a self-contained mist collector that can be mounted directly onto machining centers or nearby using ducting. Oil and water-based machine mists, fumes and smoke are drawn into the system and then sent through a highly efficient coalescing pre-filter and large ESP collection cell, with clean air re-circulating back into the plant for a cleaner, healthier work environment.



Vertical Model

Benefits

- **Reduced maintenance** – The combination of a high-efficiency Mist-Stop pre-filter and large capacity ESP cell enables the MSH to capture three to four times the amount of machine fluid than other similar sized collectors. So, fewer cleanings are necessary, and the unit can run for longer intervals between servicing.
- **Better smoke removal** – With its variable speed motor, operators can easily adjust the MSH to airflows up to 600 CFM.
- **No more filter replacements** – ESP cells can be easily washed, so there's no need for costly media filter change outs.
- **Lower operating costs** – The MSH only requires a 115 volt electrical supply which can be provided virtually anywhere.
- **Long-term reliability** – The MSH uses a motorized direct drive impeller, backward curved wheel, so there is less downtime spent changing worn drive parts.
- **Less downtime** – A heavy-duty latched door provides easy access to the ESP filtration section, while the blower compartment is reachable through a set of quick access bolts.



The MSH is ideal for collecting machine tool coolant mist.

COMPACT ELECTROSTATIC MIST COLLECTORS



Horizontal Model

To ensure a mist- and smoke-free work environment, the MSH provides optimized extraction velocities for most machine enclosures.

Specifications

DIMENSIONS:	27.5" x 16.4" x 15.4" – Horizontal* (698.5 mm x 406 mm x 381 mm) 16.4" x 29.9" x 15.4" – Vertical (406 mm x 736.6 mm x 381 mm) <i>*Includes 1-1/2" drain fitting and 3" high leg set.</i>
INLET OPENING:	13.4" x 12.3" (4048 mm x 3149 mm) – Horizontal 15.2" x 16.3" (4633 mm x 4968 mm) – Vertical
WEIGHT:	102 lbs (46 kg) – Horizontal 112 lbs (50.8 kg) – Vertical
SHIPPING WEIGHT:	137 lbs (62 kg) – Horizontal 147 lbs (66.7 kg) – Vertical
CABINET:	Fully welded 16 gauge steel, electrostatically powder coated finish
AIRFLOW:	200 to 600 CFM (5.7 to 17 m ³), variable speed control
COLLECTION AREA:	90 ft ² (8 m ²)
FILTRATION:	1st Stage – Proprietary mist-stop pre-filter 2nd Stage – ESP collection cell 3rd Stage – Aluminum mesh after-filter
POWER SUPPLY:	Solid-state electronic circuitry enclosed outside of airstream
INPUT POWER:	100-120V/1P/60Hz/1.4A (max.)
MOTORIZED IMPELLER:	¼ HP (185 watt) backward curved, direct drive rated 500 CFM @ 1" w.g.
SOUND LEVEL:	68.4 dBA @ 3 ft., 64.9 dBA @ 5 ft.
EFFICIENCY:	99.9%

Applications

Bolt Makers	Quenching
CNC	Rubber Forming
Cold Forming	Screw Machining
Gear Cutting	Soldering
Heat Treating	Threading
Induction Heating	Wet Drawing
Lathes	Wet Grinding
Plastic Forming	

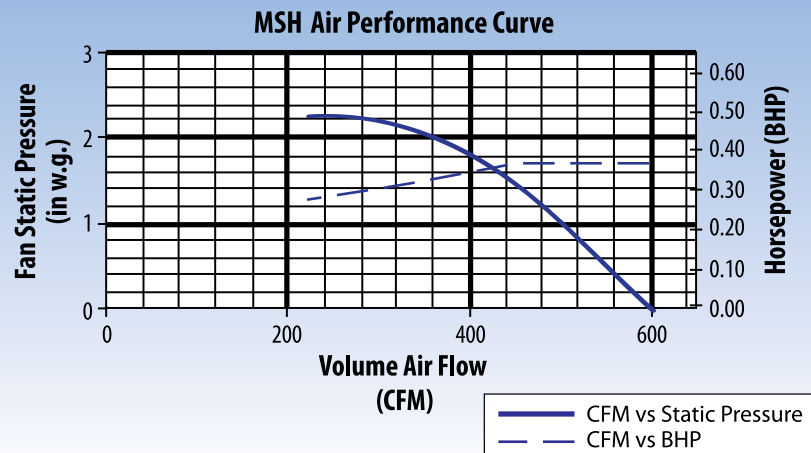
Options & Accessories

- Ceiling and wall mount kit
- Pedestal mount kit
- 6" or 8" Inlet collar (horizontal only)
- 6" or 8" Flex hose
- Drain loop assembly
- Drain bottle
- Vibration isolation kit
- 15' Power cord
- 208-230-460V/3/60Hz input power

www.uasinc.com

800-252-4647

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Cincinnati, OH 45242





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Smog-Hog® PSG

KITCHEN EMISSION CONTROL SYSTEMS



SMOG-HOG®

Clean air. It's what we do.®

NO MORE
placement
restrictions.

NO MORE
smoke or greasy
odor emissions.

SMOG-HOG® ELIMINATES KITCHEN EMISSIONS

As a retail developer, building owner, tenant, architect or engineer, you know how much a restaurant can add to the value of your venue. But you're also well aware of the environmental issues that can result from annoying smoke and greasy odors emitting from kitchens, as well as the headaches that result from designing them.

Fortunately, these concerns are a thing of the past with the Smog-Hog PSG series from United Air Specialists (UAS). As a world leader in air pollution control, UAS provides proven systems that not only eliminate

problems caused by cooking ventilation, but ensure that only clean air is exhausted into the environment.

Casinos, hotels, high-rise buildings, food courts, restaurants, stadiums and theme parks; these are just a few facilities already relying on Smog-Hog kitchen emission control systems to prevent odor complaints and secure a positive "good neighbor" image in their communities.

NO EXISTING EXHAUST SYSTEM? NO PROBLEM.

Today, many building owners have occupants who need to add a kitchen to an existing structure—a structure often without an existing exhaust-ventilation system to control grease and odors.

This used to pose a problem, but not anymore. The revolutionary design of the Smog-Hog emission control system provides the flexibility to install a kitchen in virtually *any space, in any building*. Instead of one large, all-encompassing system, we build units in modules that can be designed to fit the space available.



SOLUTIONS FOR:

- Multi-story Structures
- Environmental Standards
- Code Compliance
- Limited Space Available
- Multi-Restaurant Applications



Clean air. It's what we do.®

MINIMUM DUCTING, MAXIMUM SAVINGS

Smog-Hog is the best value in kitchen emission control, solving fume problems and saving you money in a variety of ways:

- Minimum ducting is required with our configurations, saving expensive runs of heavy-gage, welded exhaust ducting.
- Smog-Hog PSG systems combat the hazardous pollutants resulting from kitchen emissions, therefore, ongoing operating and maintenance costs are significantly reduced. Plus, maintenance is minimized because our aluminum collection cells are easy to clean and reuse, eliminating prohibitive costs associated with filter replacement and disposal.
- Our systems assure compliance with even the strictest federal, state and local environmental standards, meeting air quality needs up front and eliminating unexpected retrofit costs later.



PSG 12-2
With Odor Control

UNMATCHED DESIGN AND TECHNICAL SUPPORT

At United Air Specialists, we've been leading the way as a manufacturer of commercial ventilation systems since 1966. So you know you can always count on us for the most trusted experience and innovation in restaurant air cleaning technology.

We provide complete solutions and play an active role in partnering and supporting your entire project from start to finish, including unit and specifications drawings for your unique applications. Whether your application is a small installation project, or a non-traditional or historical site, you'll find our design and technical support to be unmatched in the industry.

USS Intrepid: Sea-Air-Space Museum



With minimal installation space available, the USS Intrepid Museum in New York City wanted to add a McDonald's Restaurant inside the hull of the ship. UAS provided the solution with a PSG system that eliminated the objection of cooking smoke and unpleasant odors.

Caesar's Palace



As a world-renowned hotel and casino, Caesar's Palace in Las Vegas needed a clean air solution for the many restaurants and a food court inside the property. With minimal ducting and a creative solution, a PSG system was installed, and clean air was discharged into a swimming pool area with zero emissions.

Rockefeller Center



As a major renovation to add an observation deck with restaurants, the Rockefeller Center in New York City required a custom PSG system to allow the unit to fit within the limited space available to this historic structure.

MORE ARCHITECTURAL FREEDOM

Our wide selection of configurations and sizes, ranging from 825–22,000 CFM, is ideal for virtually any building design parameter and performance requirement. So regardless of kitchen hood size, our emission control systems provide for the ultimate flexibility in location. Feel free to mount our systems through exterior walls, on top of buildings, inside mechanical rooms or above the ceiling.

Odor Control Module

“V-bank” odor control design allows for high filtration efficiency of gaseous odors utilizing various media options.



Injector-TEE Assembly

Systematically controls detergent use and allows for optimal cleaning while eliminating facility maintenance required to dilute detergent.

Collection Cells

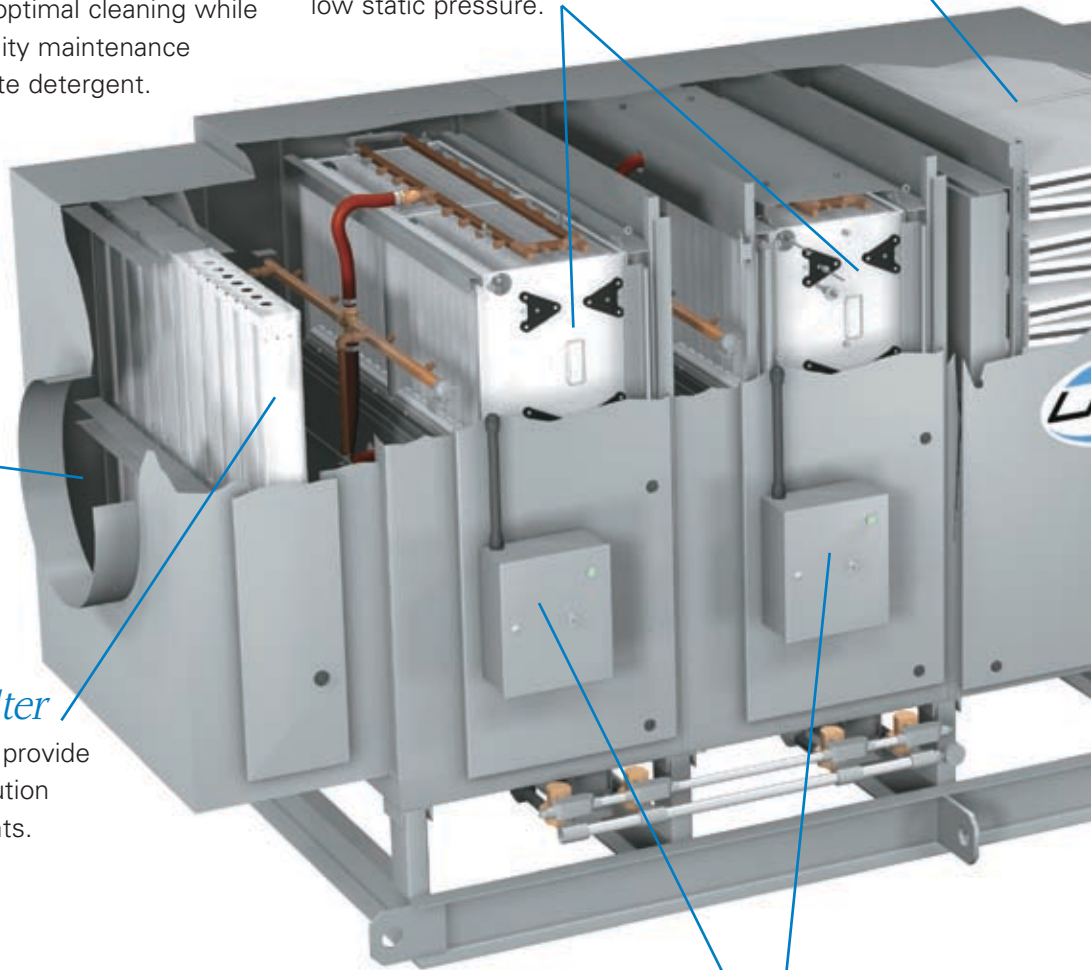
Reusable two-stage Penny Type collection cells for efficient cleaning with low static pressure.

Inlet Plenum

Effectively transitions airstream to collection cells.

Impingement Baffle Prefilter

Adjustable interlocking “U” channels provide tortuous path for even airflow distribution and protection from large contaminants.



Control Panel

Single or separate panels can operate all equipment functions. Panels can be remote-mounted as required, and entire system can be tied to a building maintenance system.

Transformer Power Packs

UL listed electronic circuitry with self-regulating components provides maximum collection of grease and odor emissions.

Outlet Plenum

Effectively transitions airstream to blower system.

System Blower

UL 762 listed, energy efficient blower with backward inclined wheels for quiet, efficient operation. (In-line blowers also available.)

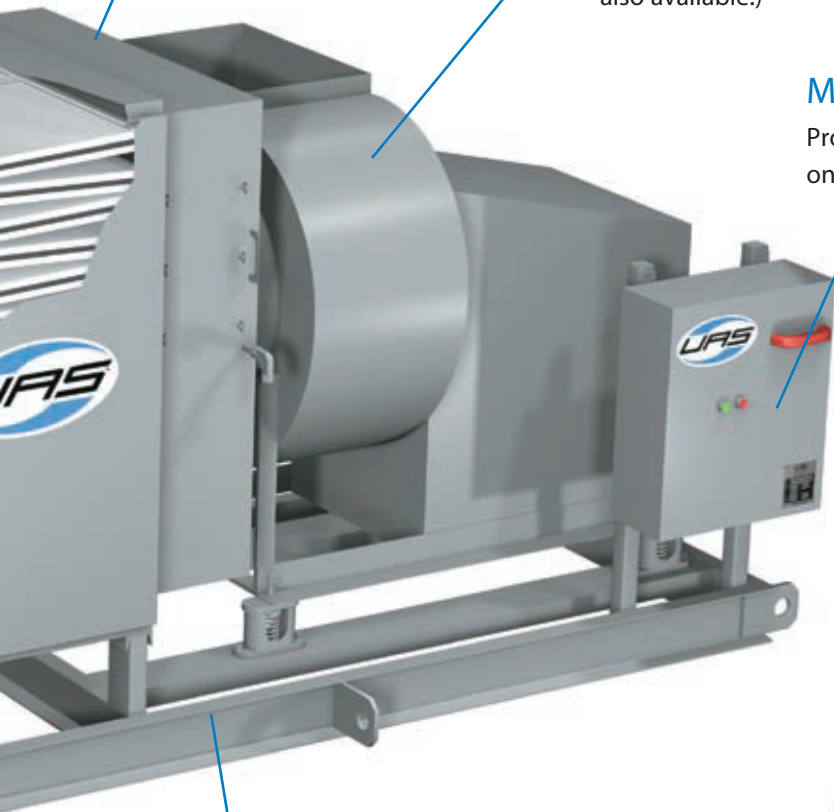
Motor Starter

Provides system on/off control.



Detergent Tank

Self-contained tank holds concentrated detergents used to clean kitchen emissions from commercial and industrial applications. (Includes integral mounted pump.)

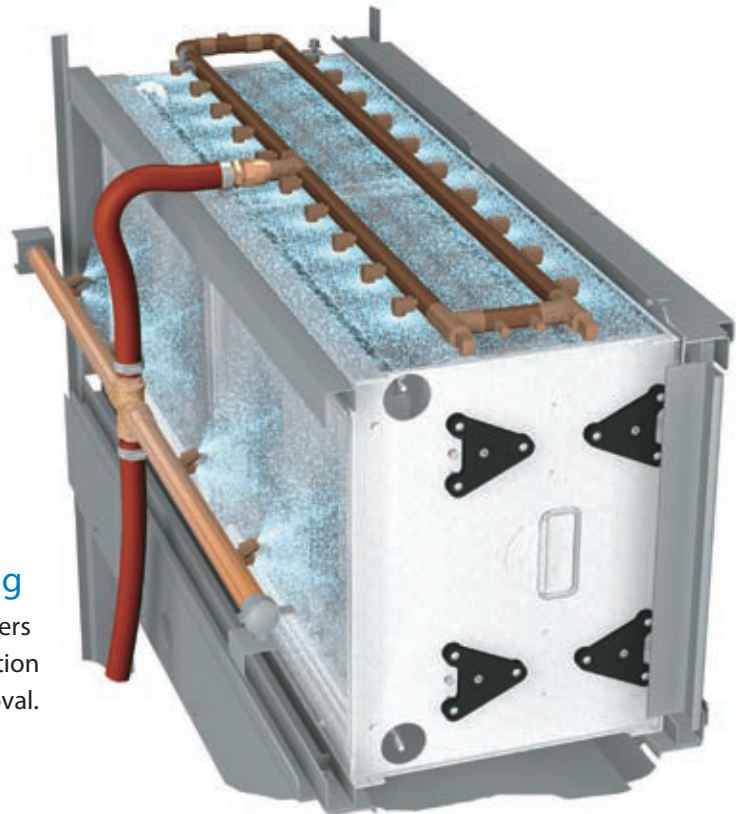


Structural Steel Skid

Heavy-duty structural channel base integrates system and facilitates easier installation.

In-place Cleaning

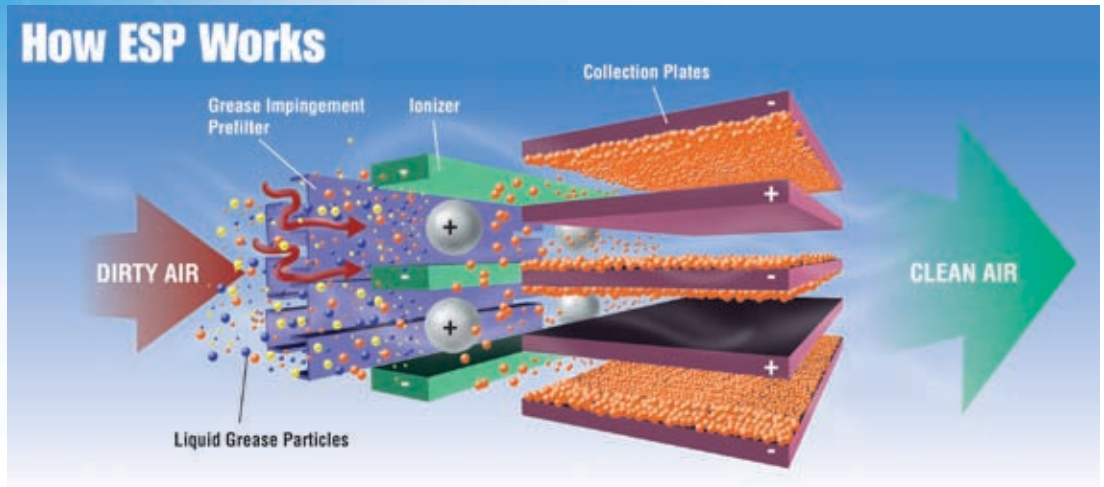
Fixed-face and overhead washers effectively clean collection components without removal.



PROVEN TECHNOLOGY, OPTIMUM PERFORMANCE

THE ESP ADVANTAGE

Electrostatic precipitation technology (ESP) is the key to the superior performance of the PSG. Unlike bag or box filters that remove only the largest particles, ESP electrically charges even microscopic contaminants, then captures them magnetically in an aluminum collection cell. As a result, this sophisticated electronic solution leaves virtually no grease or hazardous



particle untouched, releasing only clean air from the system. UAS' ESP technology ensures constant airflow, unlike barrier filters that can plug and become ineffective.



UNSURPASSED COLLECTION TECHNOLOGY

It's not just the ESP technology that provides superior cleaning. Unlike competitive ESP cells, UAS' collection cell plates are aligned more closely to improve collection efficiency. For routine maintenance, the PSG's 40 lb. collection cells are much easier to handle than competitive cells that weigh 80 lbs. or more!

RELIABLE POWER

Only UAS includes a self-regulating power pack. This provides continually high collection-efficiency over a variable range of cooking conditions. In the unlikely event of a power pack failure, UAS also provides multiple power packs so that the entire system need not be shut down.





Sandia Resort & Casino installation



Hearst Tower installation

SMOG-HOG INSTALLATIONS

- Bryant Park Hotel
- Caesar's Palace Las Vegas
- Chipotle
- Fogo de Chao
- Four Seasons Hotel of Boston
- Goldman Sachs Tower
- Google
- Hearst Tower
- Hilton Palacio del Rio, San Antonio River Walk
- Mandarin Oriental Hotel
- McDonald's
- Mohegan Sun
- Montage Beverly Hills
- Rockefeller Center Rainbow Room and Ted's Montana Grille
- Sandia Resort & Casino
- Walt Disney World Rainforest Café and La Brea Bakery
- Yankee Stadium

ACCESSORIES / OPTIONS

- Custom control panels
- Custom paint colors
- Factory start-up/orientation
- Fire suppression system
- Inlet plenum with grease impingement prefilter
- In-place cleaning systems
- Insulated weather enclosure
- Motor starter
- Odor control modules
- Outlet transition plenum
- Prefilter options
- Remote start/stop control panel
- ETL agency-approved

AGENCY LISTINGS / APPROVALS



UL Standards 867 and 710

City of Los Angeles

City of New York – MEA and BEC approved

SMOG-HOG[®]

WHY CHOOSE UNITED AIR SPECIALISTS?

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Commitment to quality products. Measuring our quality against documented expectations, we practice continuous improvement methods to anticipate challenges and implement successful solutions.

Unparalleled customer support. As a customer-driven solutions provider, we earn credibility and establish successful relationships by exceeding expectations for professional service and attitude.

Innovative technical leadership. Always, we keep technology at the forefront — ensuring continuous product advancements through ongoing investments in design and manufacturing.

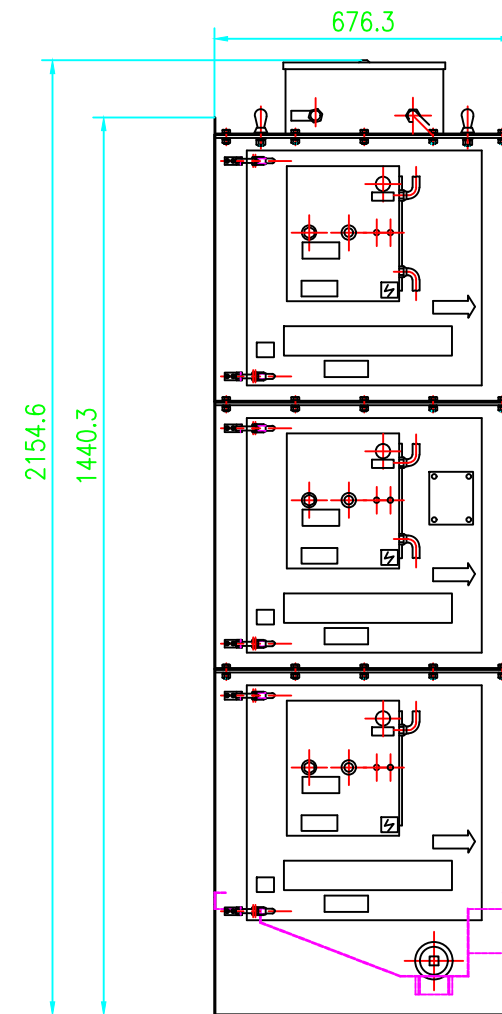
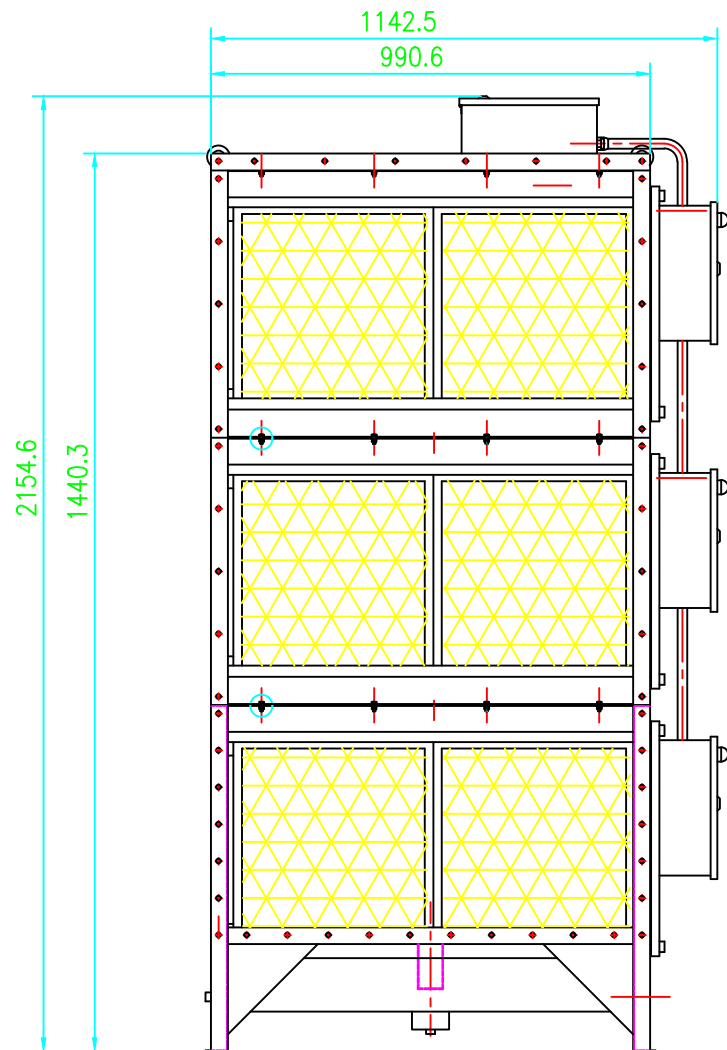
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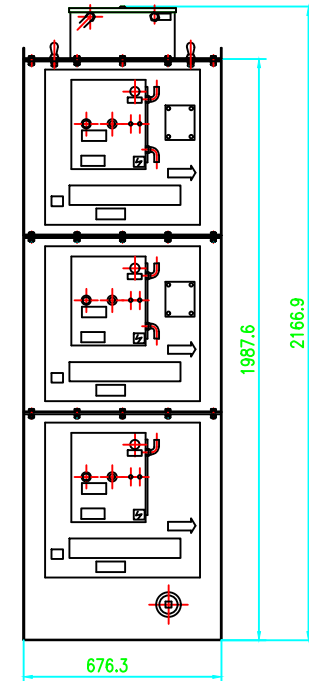
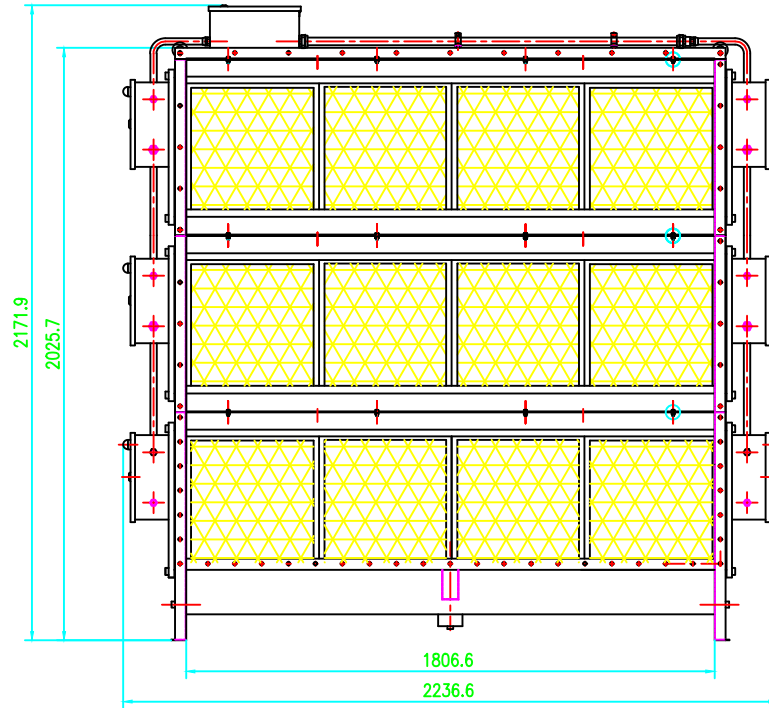
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Clean air. It's what we do.[®]




Fume & Oil Mist Collector
 Smog-Hog Model: APC 32
 Airflow 6,000-7,500 cfm.
 Power 220/1/50

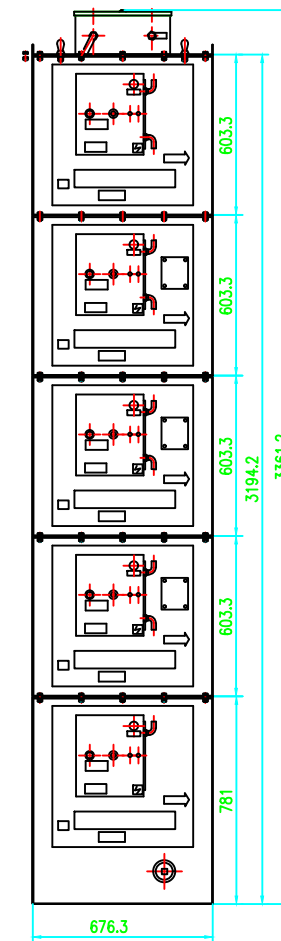
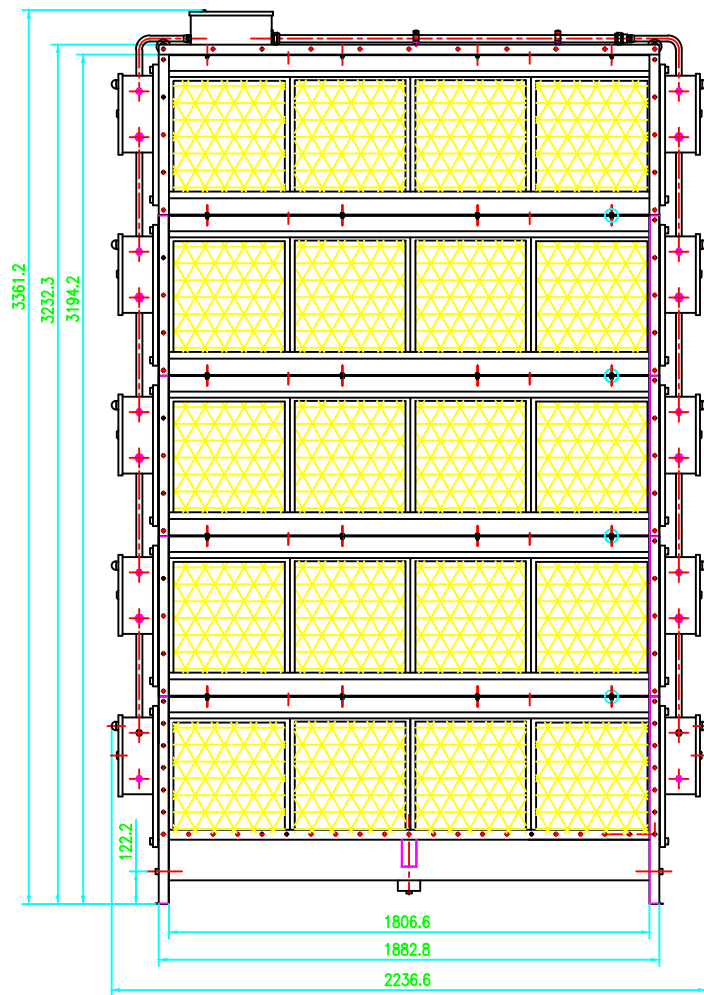
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Fume & Oil Mist Collector
Smog-Hog Model: APC 34
 Airflow 12,000-15,000 cfm.
 Power 220/1/50

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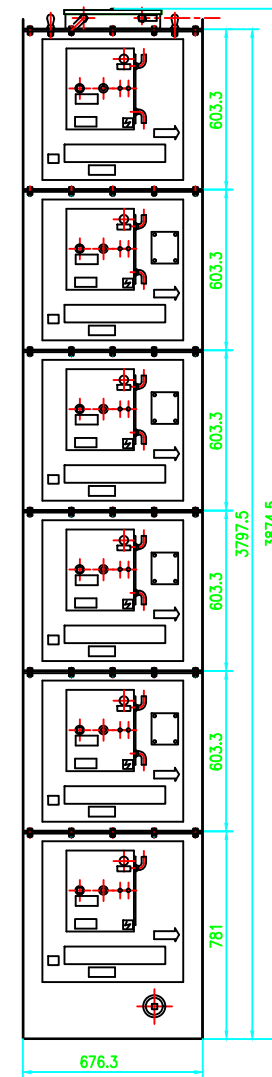
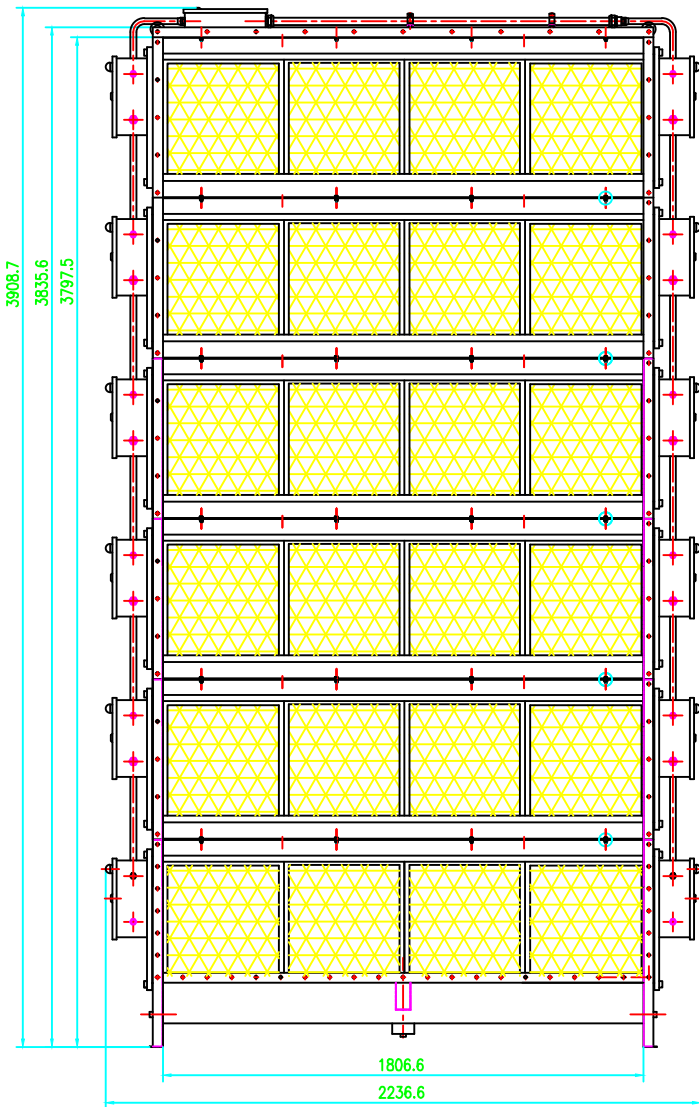
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Fume & Oil Mist Collector
Smog-Hog Model: APC 54
Airflow 20,000-25,000 cfm.
Power 220/1/50

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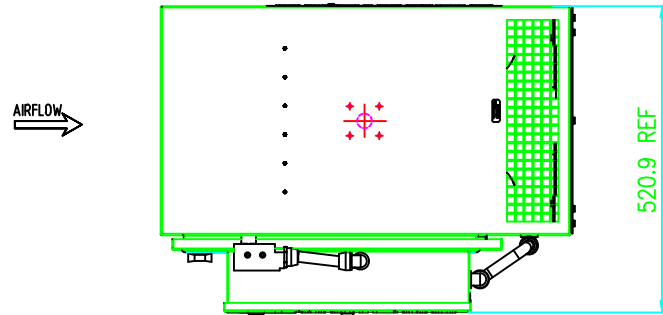
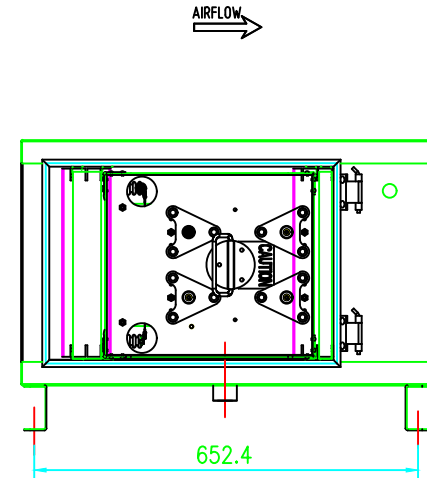
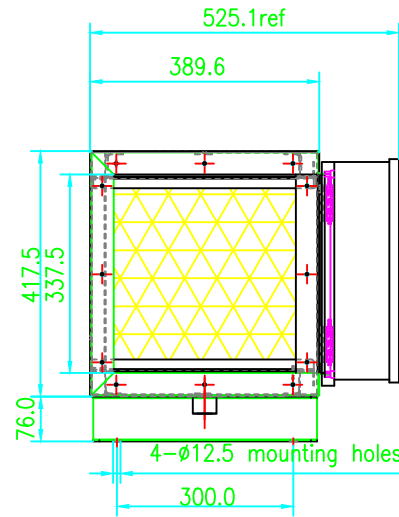
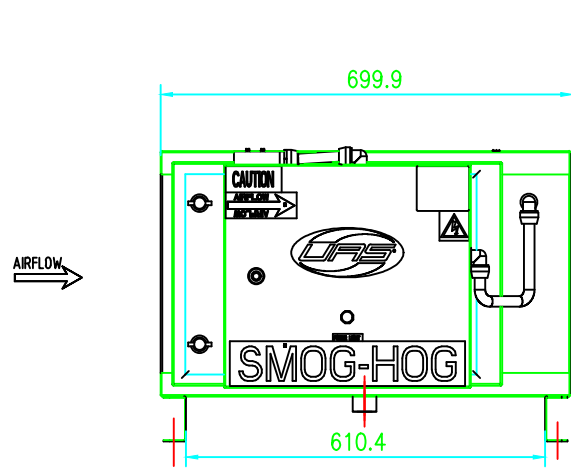
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Fume & Oil Mist Collector
 Smog-Hog Model: APC 64
 Airflow 24,000-30,000 cfm.
 Power 220/1/50

Itemref	Quantity	Title/Name, designation, material, dimension etc	Article No./Reference	
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		Designed by	Checked by	Edition
		ARKOM	-	-


0000-H-50HSW



NOTE

- input power: 220V, 1PH, 50Hz.
- air flow volume: 500CFM.

3	33-10110-C	after-filter 338x318x22	1			
2	02-10429-C	collection unicell, 6 wire	1			
1	02-10917-C	pre-filter 338x318x47	1			
序号	代号	名称	数量	材料	重量	注

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MSH05-H-??气罩?成?						
图样代号 Drawing No.						
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CLARCOR Filtration (China) Co., Ltd.						
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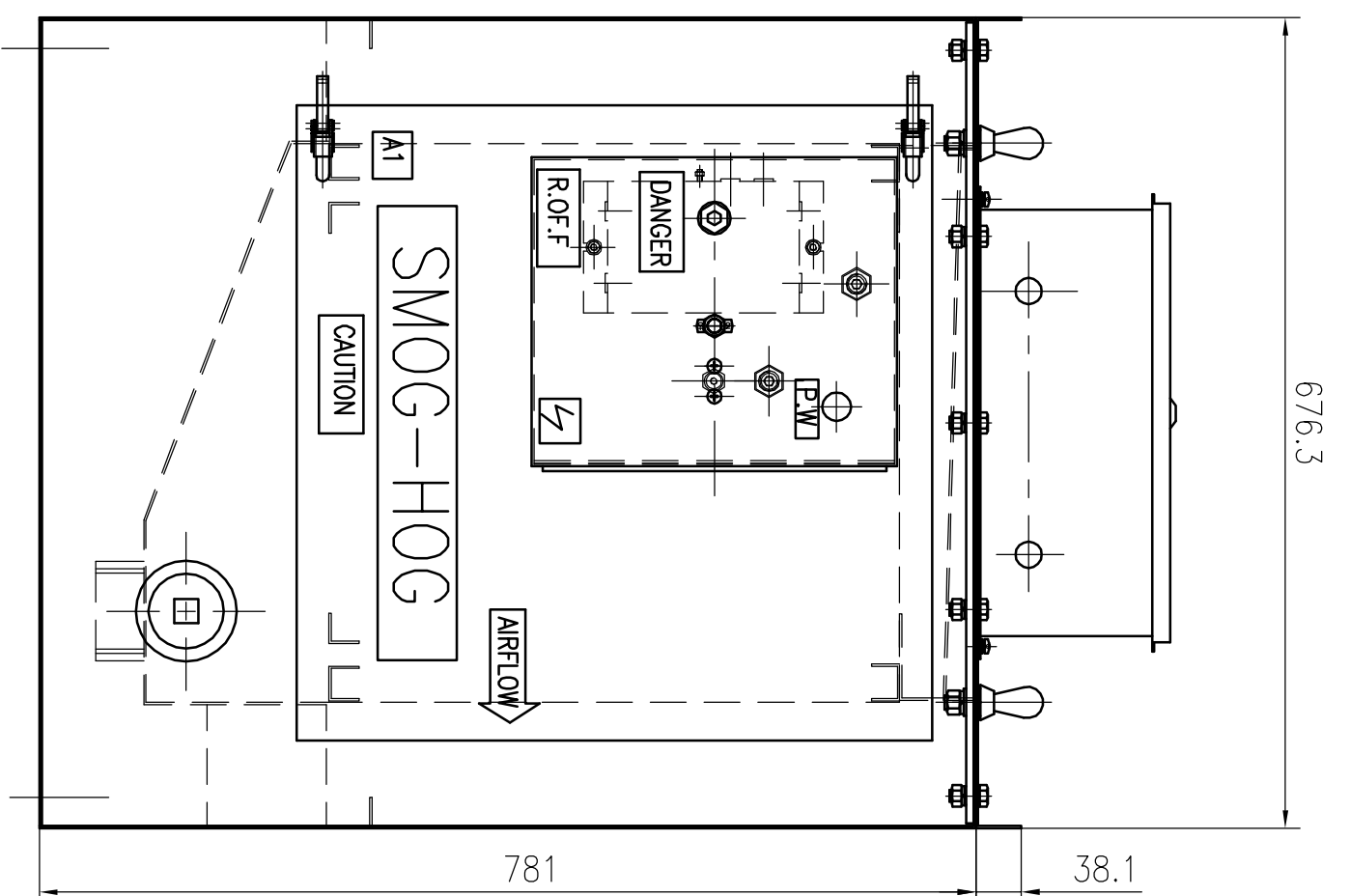
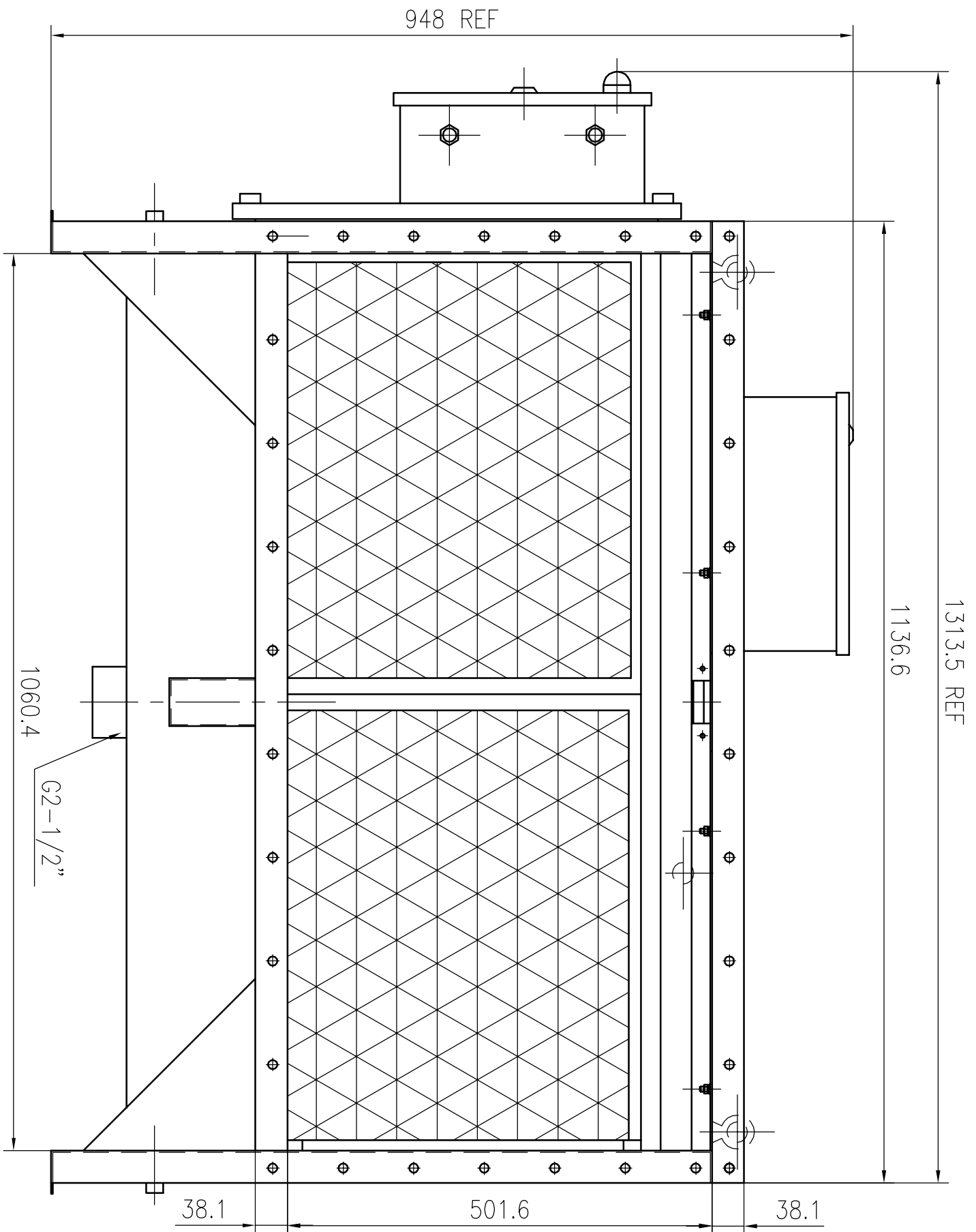
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旧底??号

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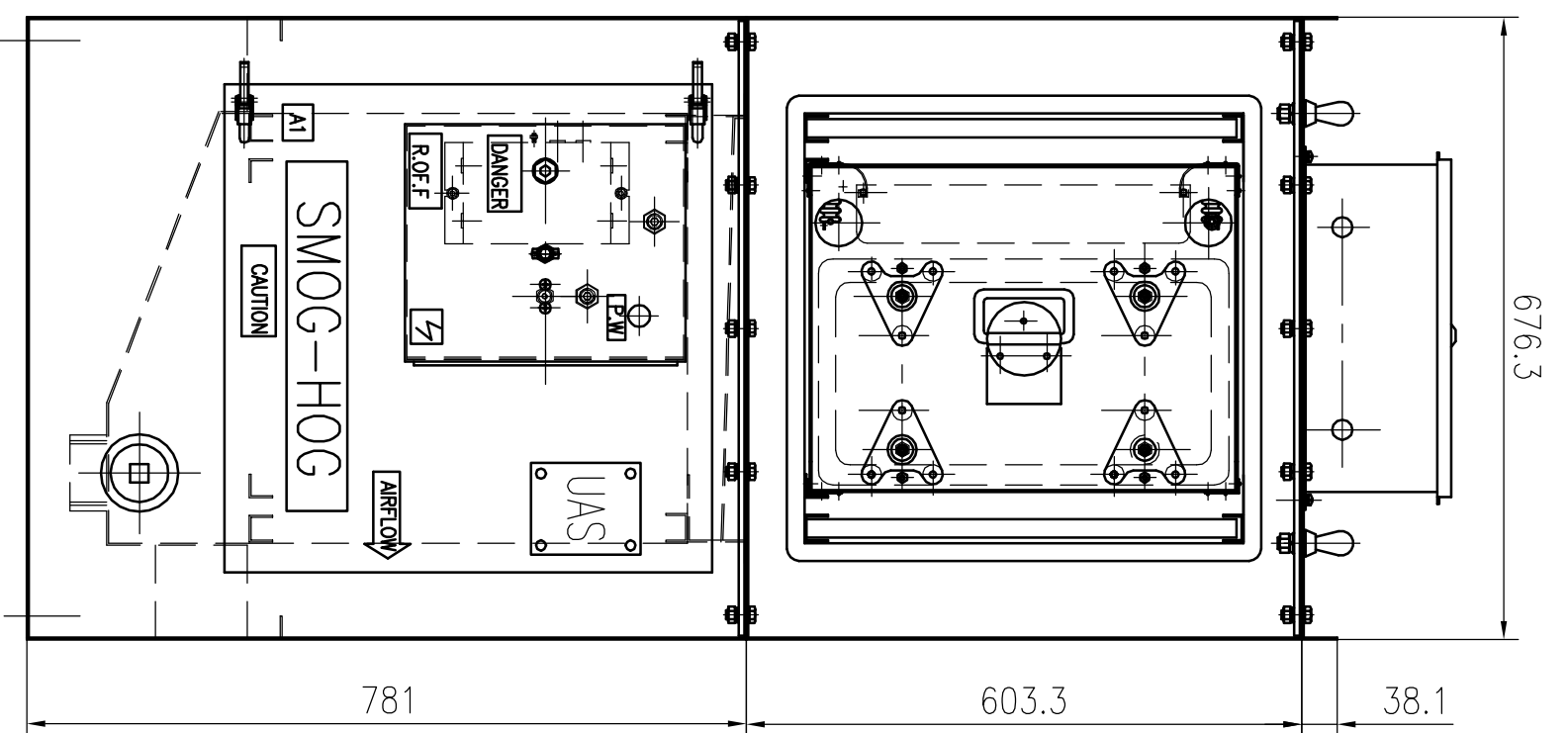
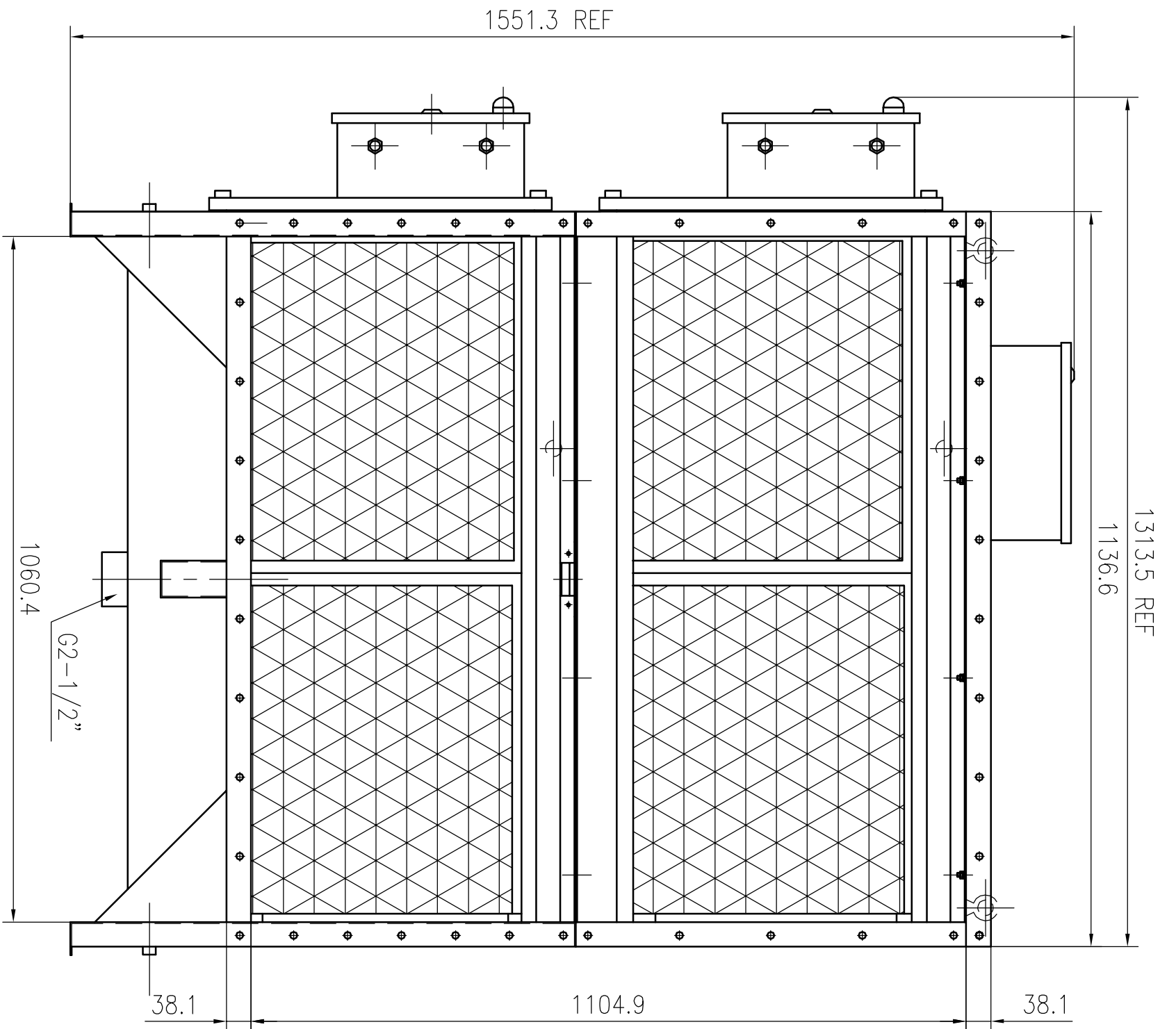
日 期



NOTE

1. AIRFLOW: 2000CFM.
2. INSTALLED PREFILTER, UNICELL AND AFTERFILTER.

REV	DATE	DESCRIPTION	TITLE:	DRW NO	REV
			PSG-12 L-R	0002	
			OUTLINE DIMENSIONS SMOG-HOG®	SCALE: 1:5	
				DATE: 2007.09	
					UAS



NOTE

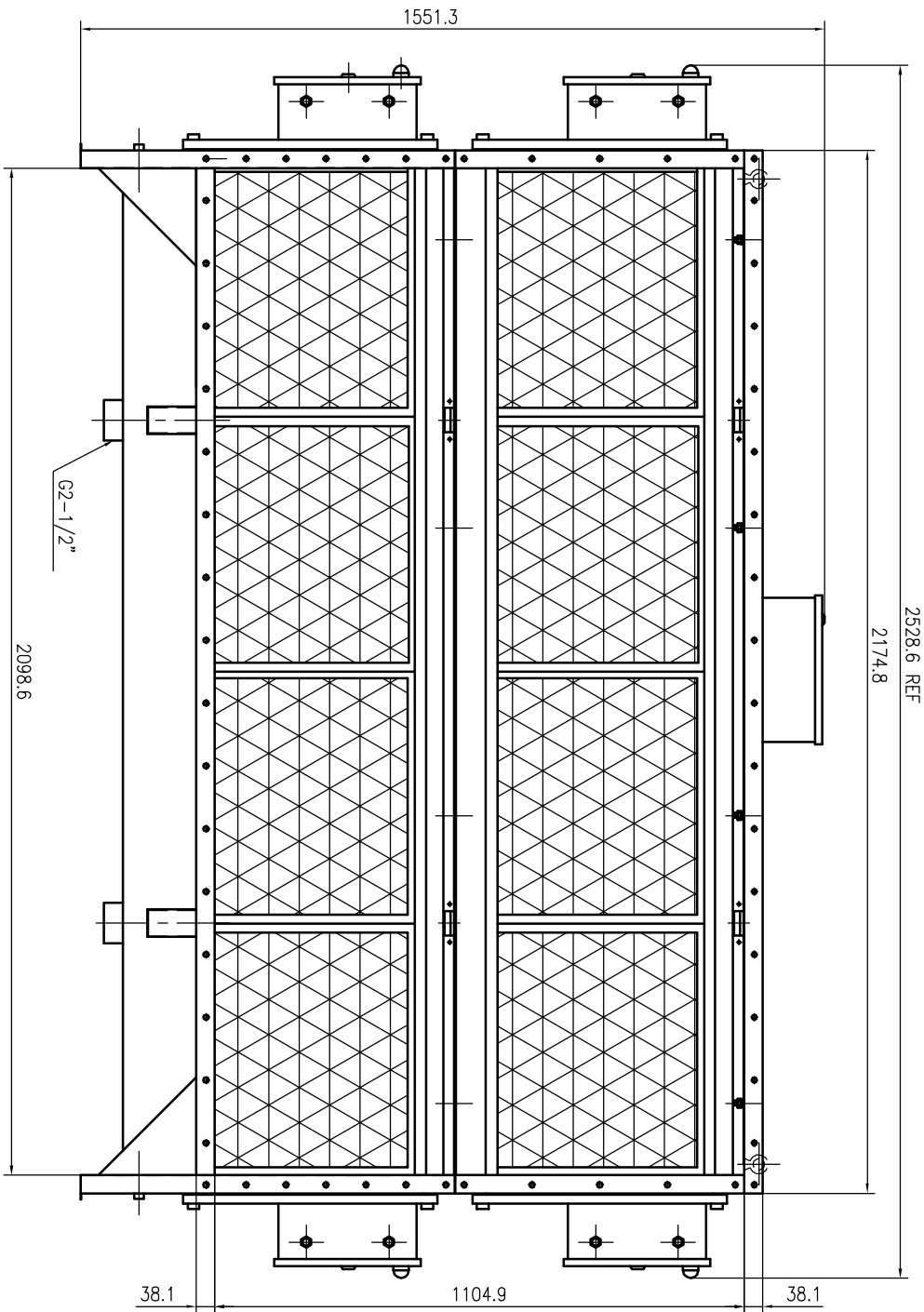
1. AIRFLOW: 4000CFM.
2. INSTALLED PREFILTER, UNICELL AND AFTERFILTER.

REV	DATE	DESCRIPTION

TITLE:
 PSG-22 L-R
 OUTLINE DIMENSIONS SMOG-HOG®

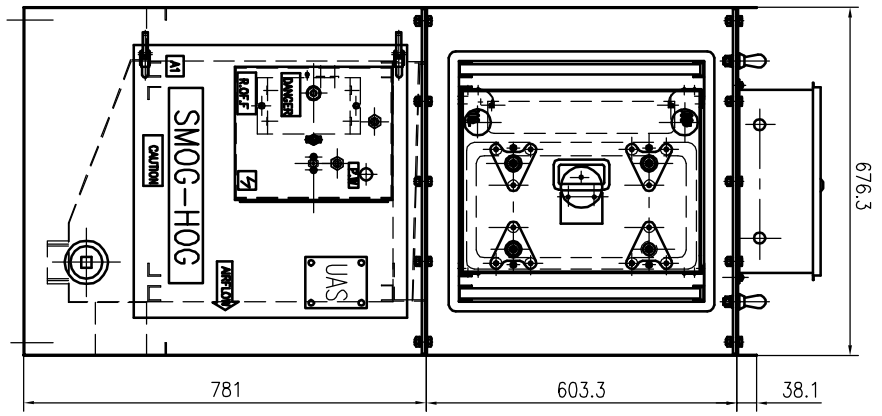
DRW NO	SCALE	DATE
0006	1:5	2007.09

REV	
	UAS

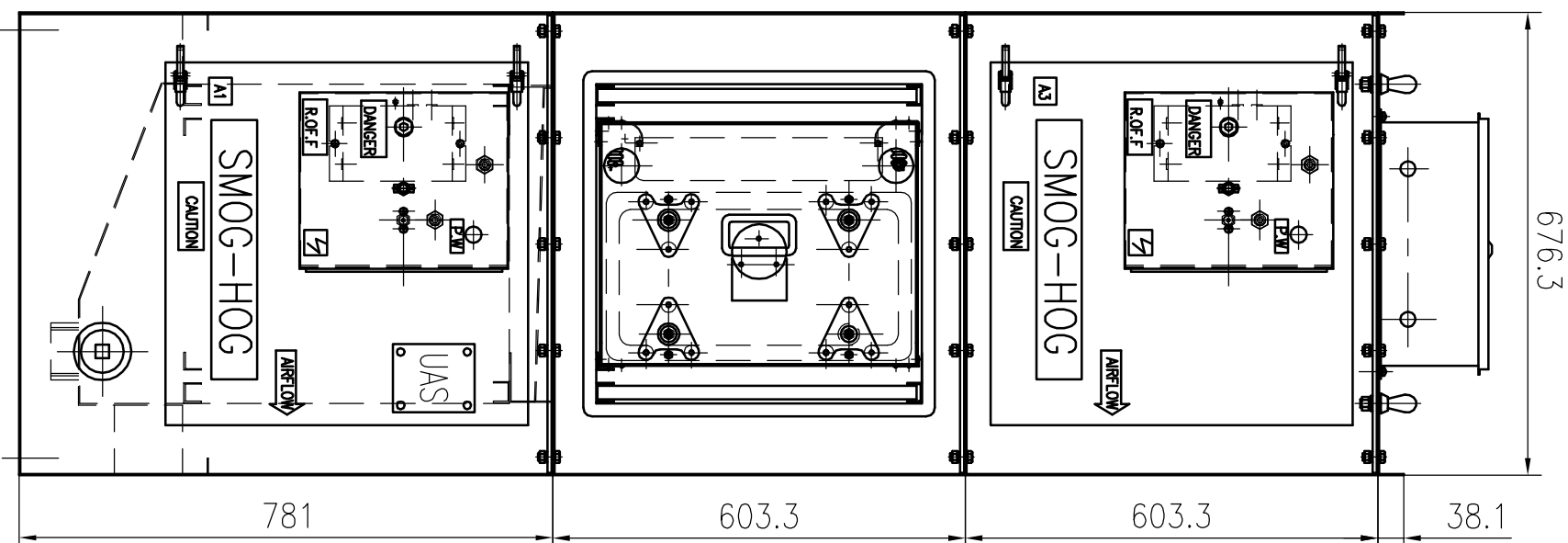
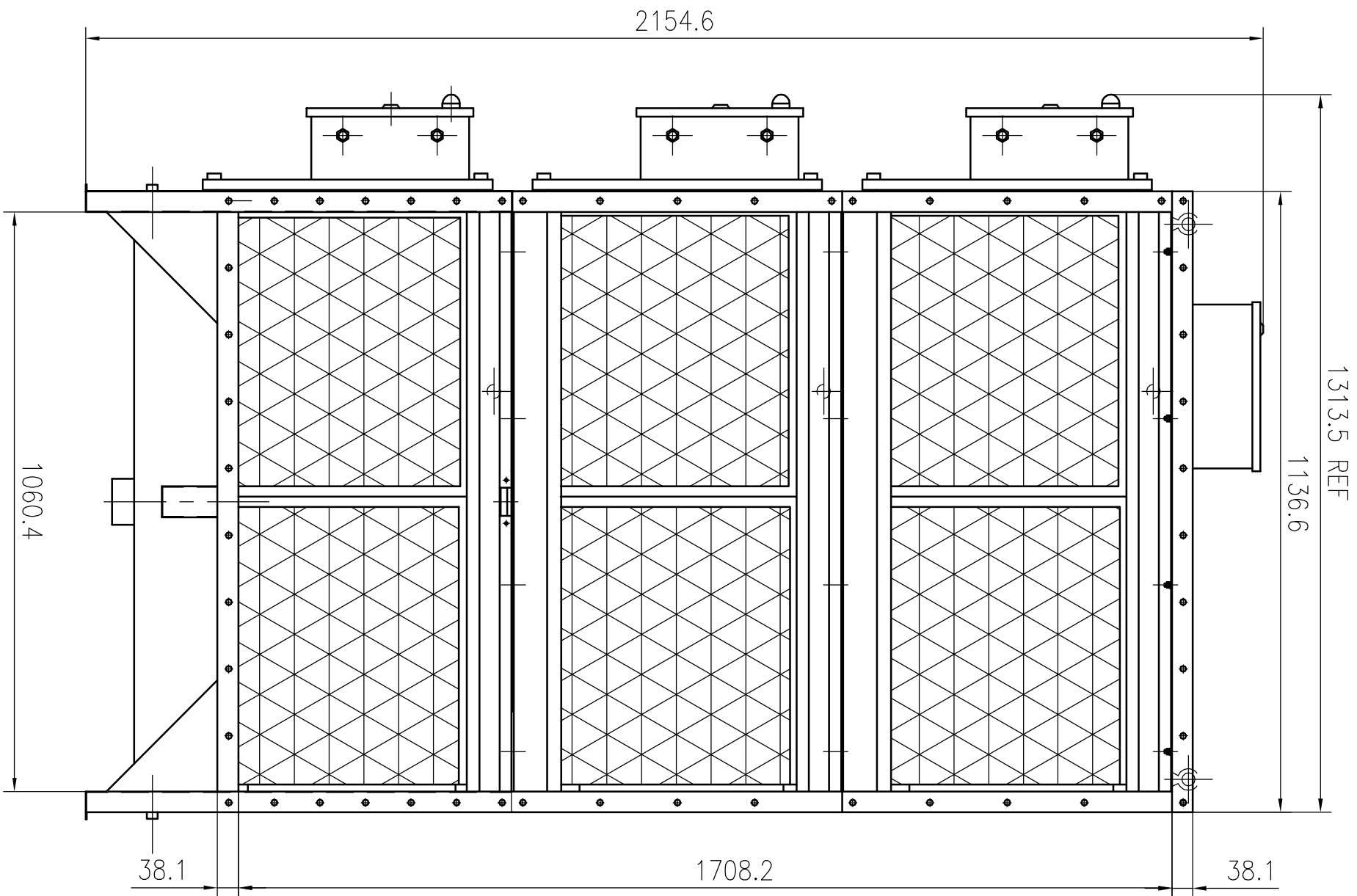


2528.6 REF

- NOTE
1. AIRFLOW: 8000CFM.
 2. INSTALLED PREFILTER, UNCELL AND AFTERFILTER.



REV	DATE	DESCRIPTION	TITLE:	DRW NO	REV
			PSG-24	0008	
			OUTLINE DIMENSIONS SMOG-HOG		UAS
				SCALE: 1:5	
				DATE: 2007.09	



NOTE

1. AIRFLOW:6000CFM.
2. INSTALLED PREFILTER , UNICELL AND AFTERFILTER.

REV	DATE	DESCRIPTION

TITLE:

PSG-32 L-R
OUTLINE DIMENSIONS SMOG-HOG

DRW NO

0010

SCALE: 1:5

DATE: 2007.09

REV

UAS