

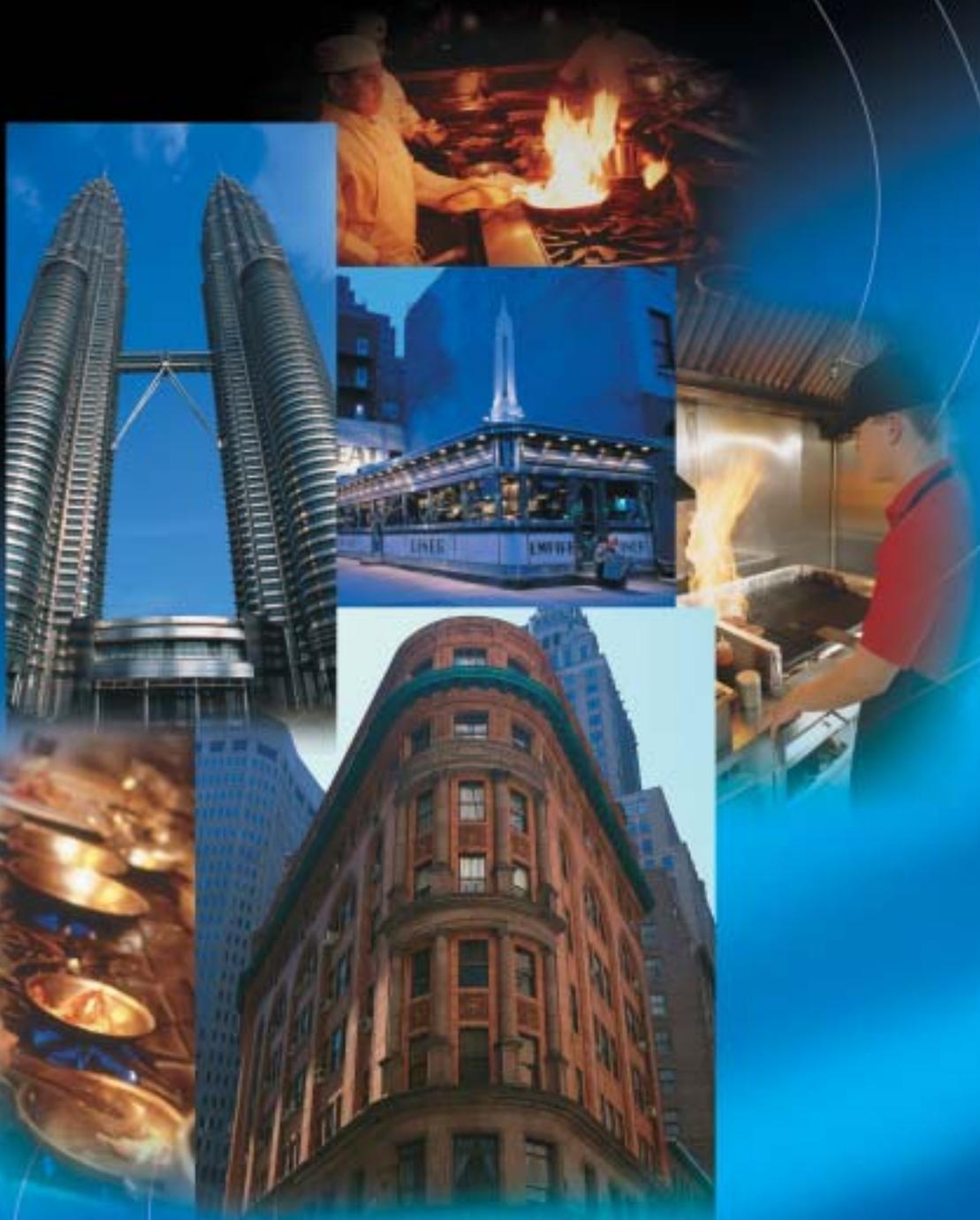


United Air Specialists, Inc.

a CLARCOR company

MODEL PSG

KITCHEN EMISSION CONTROL SYSTEMS



Clean air. It's what we do.™

NO MORE
placement
restrictions.

NO MORE
smoke or greasy
odor emissions.

A CLEAN AIR
solution starts here.

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 cleaning and 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. Plus, these advanced systems can be specified before construction or be *retrofit into an existing building.*

Hotels, high-rise buildings, grocery stores, airports, casinos, food courts and sports and entertainment complexes, these are just a few facilities already relying on UAS 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 require adding 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 PSG emission control system provides you with 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



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MINIMUM DUCTING. MAXIMUM SAVINGS.

UAS' PSG systems are simply your *best value* in kitchen emission control, solving your emission problems and saving you money in a variety of ways:

- **Minimum ducting is required** with all of our configurations, saving expensive runs of heavy gauge welded exhaust duct systems.
- 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.



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 we 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 ductwork 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 range 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

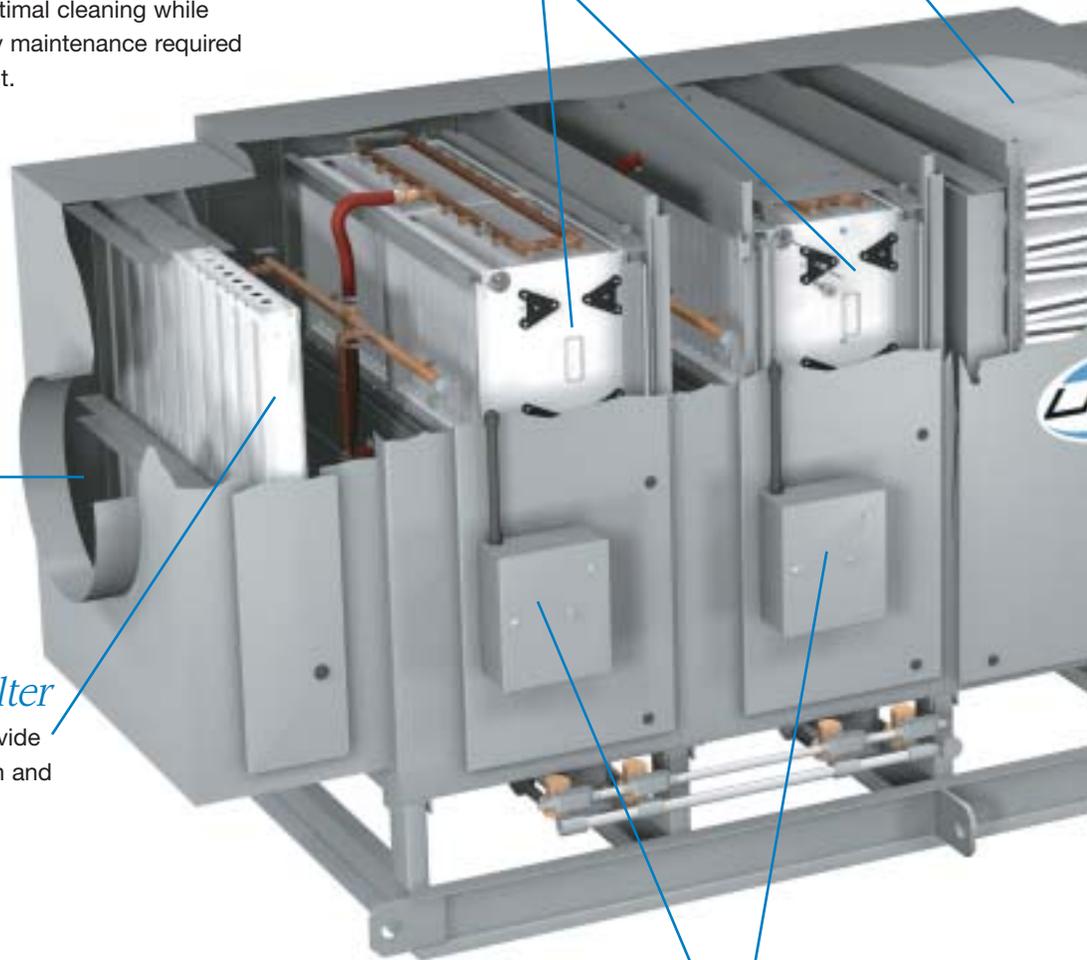
"V-bank" odor control design allows for high filtration efficiency of gaseous odors utilizing various media options.



INJECTOR-TEE ASSEMBLY

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

Collection Cells



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.

Power Packs

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



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.



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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.

Structural Steel Skid

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

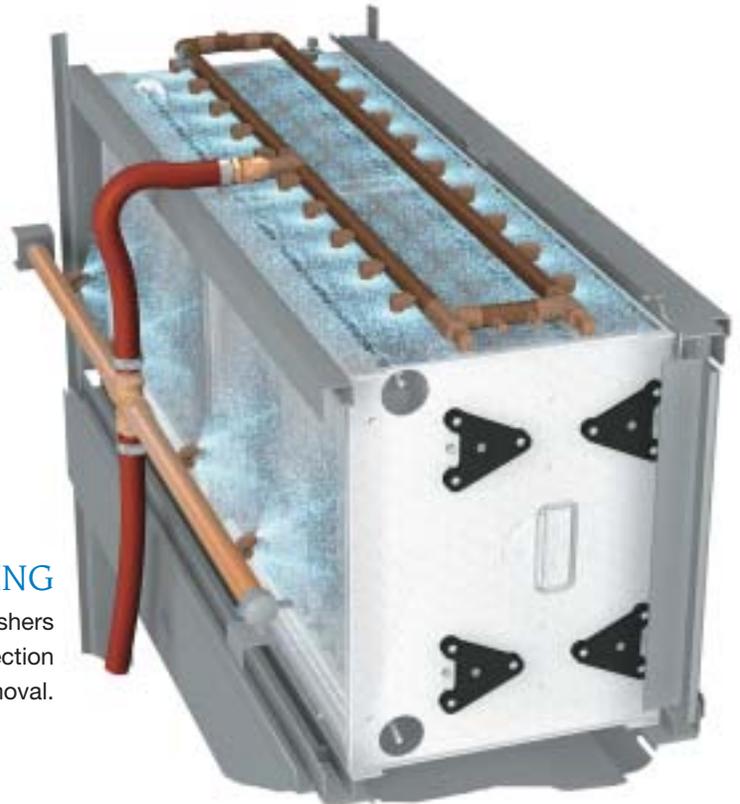
IN-PLACE CLEANING

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



DETERGENT TANK

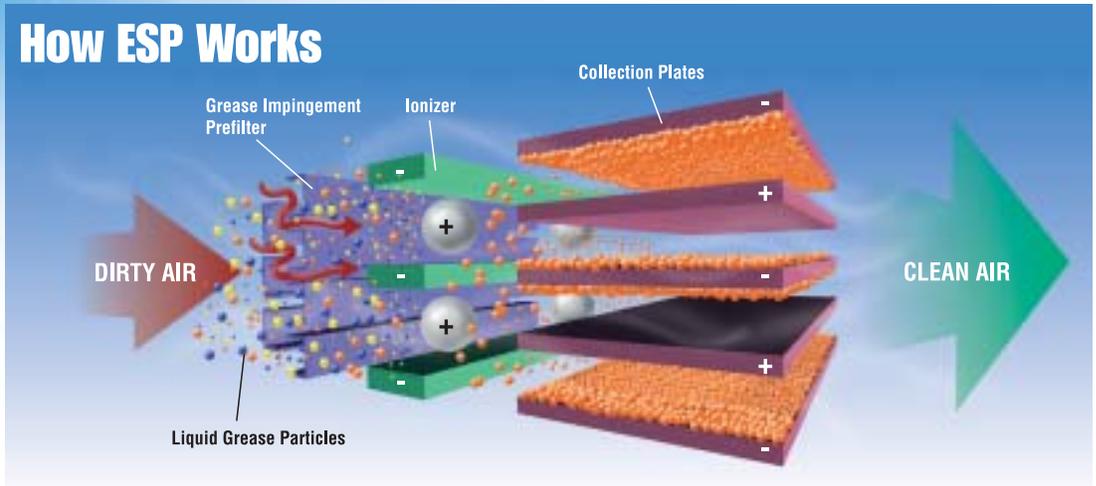
Self-contained tank holds concentrated detergents used to clean kitchen emissions from commercial and industrial applications. (Includes integral mounted pump.)



PROVEN TECHNOLOGY. OPTIMUM PERFORMANCE.

THE ESP ADVANTAGE

Electrostatic Precipitation technology (ESP) is the key to the superior performance of the PSG. Unlike bag 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 insures 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' plates of the collection cells 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!

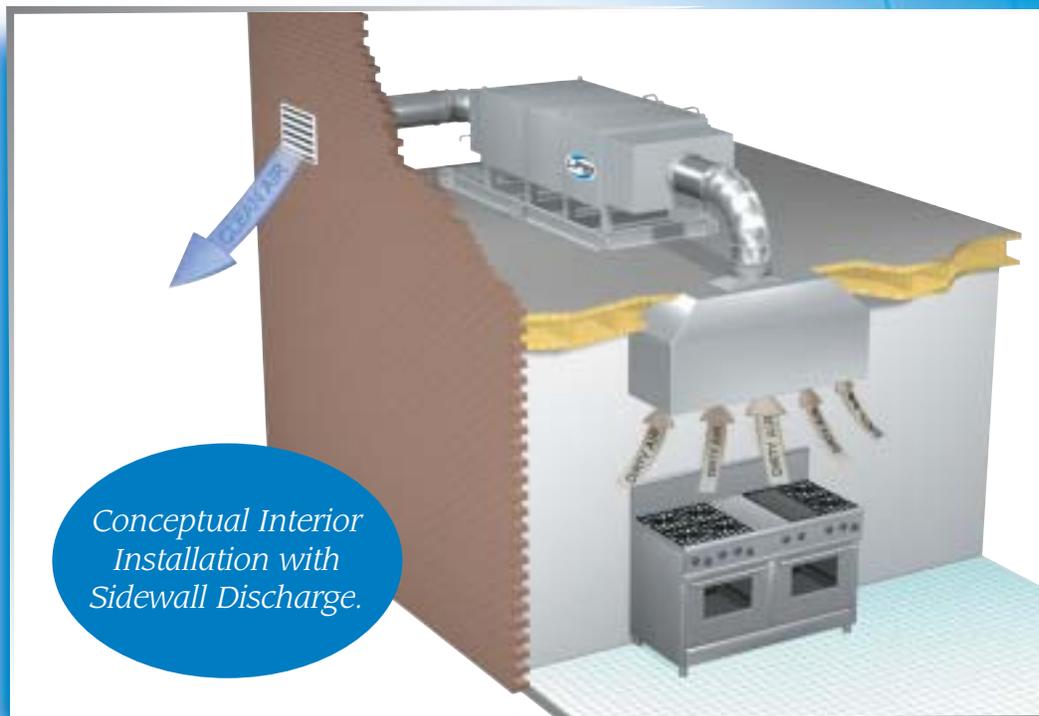
RELIABLE POWER

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.



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INSTALLATION



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
- UL/ETL agency-approved

AGENCY LISTINGS/APPROVALS



City of Los Angeles

City of New York – MEA Listing

SMOG-HOG®

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.

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