EXPERTS IN DESIGNING AND MANUFACTURING ODOR CONTROL AND AIR POLLUTION CONTROL EQUIPMENT

Our systems are engineered to create a clean environment.

CALL TODAY FOR TOMORROW’S SOLUTIONS!

5415 Village Drive Rockledge, Florida 32955 / PHONE: 321-609-9036 / FAX: 321 609-9003

www.PerryFiberglass.com

ESTABLISHED IN 1984
Perry Fiberglass Products, Inc. was established in 1984 by Thomas Pulliam. Thomas Pulliam sold the company to his son Chad Pulliam in 2005. Perry Fiberglass is headquartered in Rockledge, Florida and manufactures all of its FRP products in Elyria, Ohio.

We develop, design and manufacture equipment for the treatment of odorous compounds in air-streams. We remain set apart from other odor control companies by providing a complete turn-key system.

Perry Fiberglass is in the business of supporting owners and engineers by providing technologically developed and improved odor control and air pollution control equipment.

Our mission is to provide quality engineered products at a competitive price and in compliance with recognized codes and standards. Our emphasis on quality and excellent customer service by trained personnel is paramount to our success.
# Perry Fiberglass Products, Inc.

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5415 Village Drive Rockledge, Florida 32955 / PHONE: 321-609-9036 / FAX: 321 609-9003
www.PerryFiberglass.com
PERRY FIBERGLASS PRODUCTS, INC
(TURN KEY SYSTEM GUARANTEED TO WORK)
COMPETITION
(PARTS AND PIECES FROM FOUR SEPARATE SUPPLIERS)
ACTIVATED CARBON (DRY) ODOR CONTROL SYSTEMS

Chemical Adsorption Odor Control Systems are a once-through chemical adsorption system. Odorous compounds and other organics are removed from the air stream through adherence to the activated carbon porous surface.

Available Medias:
- Higher or Lower Capacity Coconut Shell Carbon
- High H₂S Capacity Carbon
- Polishing Media
- Water-Washable Activated Carbon
- Media Manufactured to Adsorb Ammonia and Chlorine

Perry Models:
- B1 - Single Bed Vertical Unit
- B2 - Dual Bed Vertical Unit
- H1 - Single Bed Horizontal Unit
- H2 - Dual Bed Horizontal Unit
- RF - Vertical Radial Flow Unit

CHEMICAL SCRUBBERS AND DEGASIFIERS / AIR STRIPPERS

Perry Fiberglass offers a variety of packed-bed scrubbers. Our scrubbers are designed and manufactured to removed soluble odors. Contact Perry Fiberglass today for your engineered system.

CHEMICAL SCRUBBERS:
Contaminated air is introduced to the packed-bed scrubber, the air travels through the scrubber mixing with the scrubbing solution. Within the scrubber, aerosols and vapors are transferred to the scrubbing liquid in accordance with various chemical and mechanical principles. Clean air is exhausted to the atmosphere, while the scrubbing liquid is recirculated with small amounts discharged to a wastewater treatment system.

DEGASIFIERS / AIR STRIPPERS:
Degasifiers / Air Strippers are designed to remove volatile organic compounds (VOC’s) from groundwater. The Degasifiers / Air Strippers exhausted air can be further treated with an activated carbon unit or a chemical scrubber to prevent atmospheric pollution.
FRP DUCTWORK, PIPING AND STACKS

FRP DUCTWORK
Fiberglass Reinforced Plastic (FRP) duct products from Perry Fiberglass serve a wide array of applications including but not limited to; municipal, industrial and underground. Perry Fiberglass offers a variety of resins for corrosion applications to include; vinyl ester and isophthalic resins for superior corrosion resistance.

Perry 20S Low Smoke™ is offered for air handling (underground and aquatic centers) with a class 1 rating for both flame and smoke.

FRP PIPING
Perry FRP Piping systems are engineered for corrosive and abrasive applications. FRP Piping has superior corrosion resistance. In comparison to metallic piping, FRP can be more economical than stainless steel, titanium, and other exotic alloys. Pulp and paper, mining, chemical processing, power, and water plants have successfully chosen to utilize FRP Piping in their process systems.

FRP STACKS
Perry Fiberglass designs and manufactures fiberglass reinforced plastic FRP stacks for a variety of industries too include; municipal odor control, chemical exhaust, pulp/paper, and mining. FRP stacks from Perry Fiberglass offer a number of advantages over traditional concrete and metal stacks to including superior corrosion resistance, relatively light weight, and ease of installation. Perry Fiberglass can engineer a stack for your specific application taking specific design criteria into account including wind and seismic loads. Perry stacks can be fitted with lights, grounding systems, complete ladder systems, guy wires, and support rings along with many other accessories to meet your needs.

OTHER PERRY PRODUCTS
Perry Fiberglass designs and manufacturers a range of accessories and components for the municipal and industrial markets.

ADDITIONAL PRODUCT OFFERING:
- Grease Filter / Mist Eliminators
- FRP Enclosures
- Covers and Hoods
- FRP Dampers
- Fans
- FRP Chemical Storage Tanks
- FRP Brine Tanks
- Chemical Feed Systems
- Instrumentation
- Control Panels
- Biofilters / Biological Filters

SERVICES:
- Quarterly or Yearly System Maintenance
- Dry Media (Activated Carbon) change-outs
- Existing System Evaluation
- Performance Testing (EPA Testing Methods)
- Air Balancing
- Training and Start-up Services
- System Design Services
The Perry RF radial flow is an efficient and highly effective system for removing odorous compounds from municipal and industrial processes. These systems can utilize a wide variety of adsorbent media for specific treatment. A few being:

- Highly efficient
- Removable carbon retention screen. (Other radial flow manufacturers do not offer an internal basket that utilizes an easily removable screen.)
## RADIAL FLOW
Compact system to treat high flow rates

<table>
<thead>
<tr>
<th>RADIAL FLOW FEATURES</th>
<th>RADIAL FLOW BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Footprint</td>
<td>Up to 40,000 cfm unit in a single 12’ diameter vessel.</td>
</tr>
<tr>
<td>Proprietary Interior Baffle</td>
<td>Offering an engineered baffle system</td>
</tr>
<tr>
<td>Construction</td>
<td>Vessel and internal components are manufactured using high quality, corrosion resistant materials to provide a long service life.</td>
</tr>
<tr>
<td>FRP Flanged Carbon Ports</td>
<td>High-quality FRP flanged ports</td>
</tr>
<tr>
<td>Carbon Retention Screen</td>
<td>Unlike other radial flow carbon unit manufacturers; our radial flow is designed to have a removable carbon retention screen.</td>
</tr>
</tbody>
</table>

### Additional Product Line offered by Perry

- B1 single bed
- B2 dual bed
- RF radial flow
- Chemical scrubbers
- Controls
- FRP ductwork systems
- AMCA certified dampers
- Grease filter/ mist eliminators
- Control panels
- Fans
- Activated carbon media
- FRP chemical storage tanks
- FRP hoods/ covers
- Sound enclosures and silencers
- Field services

---

Perry Fiberglass Products, Inc.
Experts in designing and manufacturing odor control and air pollution control equipment

5415 Village Drive Rockledge, Florida 32955 / Phone: 321-609-9036 / www.PerryFiberglass.com
SINGLE AND DUAL BED CARBON ADSORBERS
B1, B2, H1, H2 AND RF SERIES
ACTIVATED CARBON (DRY) ODOR CONTROL SYSTEMS

Carbon adsorption odor control systems are a once-through chemical adsorption system. Odorous compounds and other organics are removed from the air stream through adherence to the activated carbon porous surface.

Available Medias:
- Higher or Lower Capacity Coconut Shell Carbon
- High H₂S Capacity Carbon
- Polishing Media
- Water-Washable Activated Carbon
- Media Manufactured to Adsorb Ammonia and Chlorine

Perry Models:
- B1 - Single Bed Vertical Unit
- B2 - Dual Bed Vertical Unit
- H1 - Single Bed Horizontal Unit
- H2 - Dual Bed Horizontal Unit
- RF - Vertical Radial Flow Unit

Perry Fiberglass offers the following complete line of odor control and air pollution control products

- B1 single bed
- B2 dual bed
- RF radial flow
- Chemical scrubbers
- Controls
- FRP ductwork systems
- AMCA certified dampers
- Grease filter/ mist eliminators
- Biological systems
- Fans
- Activated carbon media
- FRP chemical storage tanks
- FRP hoods/ covers
- Sound enclosures and silencers
- Field services

Perry Fiberglass Products, Inc.
Experts in designing and manufacturing odor control and air pollution control equipment
5415 Village Drive Rockledge, Florida 32955 / Phone: 321-609-9036 / www.PerryFiberglass.com
Biofilter Technology

Proven performance and low lifecycle costs for VOC & odor control

Perry Fiberglass Products, Inc.

Experts in designing and manufacturing odor control and air pollution control equipment

5415 Village Drive Rockledge, Florida 32955 / Phone: 321-609-9036 / www.PerryFiberglass.com
Sustainability Redefined
Advanced Technology for Managing Industrial & Municipal Emissions

For the control of VOCs, HAPs and odor-causing compounds, Perry Fiberglass offers a state-of-the-art portfolio of biological treatment systems—including biofilters, biotrickling filters and combinations of the two technologies—in both standardized and custom designs.

Perry Fiberglass can provide solutions for a broad range of contaminants and flow rates—from 120 cfm to over 100,000 cfm. Perry Fiberglass biofilters are the result of more than three decades of experience in managing industrial and municipal emissions, featuring advanced engineering concepts that can be tailored to provide a low lifecycle cost solution in your facility.

SEVEN things YOU WANT TO KNOW about Perry Fiberglass Biofilters:

1. Cost effective:
   - Very low operating costs.

2. Reliable:
   - Proven technology in over 120 installations.

3. Simple operation:
   - Minimal maintenance

4. High removal efficiencies:
   - Useful for broad range of contaminants.
   - Can be effectively combined with other technologies to reduce costs and improve performance.

5. Broad range of configurations:
   - Different influent air & loading rates
   - Modular
   - Built-in-place
   - Biotrickling filter (bio tower)
   - Biotrickling/biofilter combination

6. Long—life filter media:
   - Guarantees up to 10 years depending on the application
   - Media matched to project

7. Sustainable technology:
   - Reduced chemical usage/storage
   - Contaminant destruction
Solutions Tailored to Your Requirements and Your Facility

**Modular Biofilters (MB Series)**

For lower air flow rates and sites requiring a smaller system footprint, Perry Fiberglass Modular Biofilters deliver reliable, cost effective performance. These engineered pre-fabricated fiberglass systems come in a range of standard configurations and can be adapted to flow and loading requirements. They can be shipped with all media pre-installed are easily installed at the site. Our modular biofilters (MB series) can handle a wide range of flow. The MB series modular biofilters feature internal humidification and irrigation systems.

**Biotrickling Filters (BT Series)**

Perry Fiberglass Biotrickling Filters are vertically-oriented biofilters filled with an inorganic media featuring 100% water recirculation. The filters’ unique design can address high concentration of H2S odors in areas where space is at a premium—offering a shorter retention time and higher throughput than a conventional biofilter. They can also treat high concentrations of VOCs and be chemically augmented when needed. The recirculation water maintained in the tower allows for optimal control of pH, nutrient levels and biofilm thickness. In some applications, an intermittent, single-pass irrigation system can be supplied, eliminating the need for a recirculation pump.

**Integrated Biotrickling/biofilter systems (IBB Series)**

The result of 20 years of research, design and operating experience, Perry Fiberglass’s integrated biotrickling/biofilter systems are some of the most technically advanced solutions for low—to moderate—flow applications available. These systems combine the high performance of a biotrickling filter in removing H2S, with the VOC and reduced sulfur compound efficiencies of a biofilter in a single, pre-fabricated fiberglass system that offers ease of installation and a small system footprint. One of the design advantages of the integrated biotrickling/biofilter system is that it can be configured to offer multiple zones of treatment for efficient and cost—effective management of complex air streams.

**Built—in—place Biofilters (BIP Series)**

Perry Fiberglass built-in-place biofilters are custom designed solutions for mid-to high-air flow VOC and odor control application. Installations are based on standardized multi-bay designs and system components to lower installed costs for air flows ranging from 2,000 to 72,000 cfm. They can be configured with both biofilter and biotrickling designs from multi-zonal treatment.
The Perry Fiberglass Sustainable Emissions Control

For a broad range of industrial emissions applications, the Perry Fiberglass Sustainable Emissions Control offering features the use of both biological and enhanced adsorption treatment technologies to control contaminants covered under the clean air act and state and local air quality regulatory programs. Used alone or together, the two-technology approach allows Perry Fiberglass to treat organic and inorganic, polar and non-polar emission constituents at varying concentrations and air flow rates.

Our biological and adsorbent technologies for emissions control are sustainable because they are safe and high performing. They offer the ability to reduce chemical and energy consumption, the opportunity for recycle/re-use and to lower carbon footprint compared with other treatment technologies. They are sustainable in another sense due to their low operating costs—with the ability to deliver significant savings over the lifecycle of a project.

Biofilter Applications

- Asphalt manufacture
- Chemical processing
- Coatings manufacture
- Composting
- Food processing
- Fragrance manufacture
- Landfill gas/ leachate extraction
- Petroleum & refining
- Pulp & paper manufacture
- Rendering
- Wastewater collection & pumping
- Wastewater treatment
- Wood products

Perry Fiberglass Products, Inc.

Experts in designing and manufacturing odor control and air pollution control equipment

5415 Village Drive Rockledge, Florida 32955 / Phone: 321-609-9036 / www.PerryFiberglass.com
Perry Fiberglass Biotrickling filters are vertical or horizontal—oriented vapor-phase bioreactors filled with an inorganic media featuring 100% recirculation. The filters' unique design can address high concentration of H2S odors in areas where space is at a premium—offering a shorter retention time and treatment of higher air volumes than conventional biofilters. They can also treat high concentrations of VOCs and ammonia, and be chemically augmented when needed.

### Perry Fiberglass Filter Systems are a very robust, sustainable solution, offering:

- Small physical footprint
- Efficient contaminant destruction
- Eliminate chemical usage/ storage of chemical scrubbers
- Reduced energy use
- Lower carbon footprint than traditional technologies
- Lower overall emissions
- Adaptation to changing odor sources and levels

### Features include:

- FRP vessel without metal support structure (no corrosion)
- Single or dual-zone media tailored to air influent
- Ease of installation
- "drop and start up" (i.e., drop unit on pad, pre-loaded media)
- High degree of automation & process control in FRP or stainless steel panel construction

### Line Models Media (ft³) CFM EBRT/seconds (default)

| Biotower (BT) | 30 | 120-3500 | 480-500,000 | 6-30 (15) |

The Perry biotrickling filter towers are available in a dual media chamber version (tall), and a single media chamber version (low profile). They are delivered with lightweight, engineered media with internal irrigation assemblies preinstalled to improve the speed and lower the cost of installation.

### Exacting Process Control

Perry Fiberglass Biotrickling Filter Systems feature the latest concepts in odor and VOC control system design. Unlike other biofilter tower systems, the recirculation water maintained in the tower allows for optimal control of pH, nutrient levels and biofilm thickness. These highly automated systems use minimal energy; require minimal staff attention and little or no chemicals, cutting operating costs and eliminating the need for chemical storage and handling.
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The Perry Portfolio
- Biofilters (Built in Place and Modular)
- Biotrickling Filters (Round and Rectangular)
- Multi-Stage Systems (Round and Rectangular)
- Biogas
- Air Strippers
- Carbon Adsorbers
- Chemical Scrubbers
- FRP Ductwork
- FRP Dampers
- FRP Fans

Perry’s Engineered Media’s
- BIO-ROLL (Synthetic Structural Randomly Packed)
- BIO MEDIA LAVA (Inorganic, Scoria Lava)
- BIO WOOD (Aged Bark, Engineered)
- BIO-FGB (Porous and Engineered)
- BIO-FGW (Structural Randomly Packed)

Up to 15 year warranty (depending on application)

Corporate Headquarters:
5415 Village Dr. Rockledge, Florida 32955 / Tel: 321-609-9036 / www.perryfiberglass.com

Visit our website www.perryfiberglass.com for more information about the Perry Fiberglass Biotrickling Filters.
Integrated Biotrickling/Biofilter Systems
Multi-zone Treatment for Odor & VOC Control

For mid-range air flow odor and VOC control applications, Perry’s Integrated Biotrickling/Biofilter Systems are some of the most technically advanced solutions available today. The result of 20 years of research, design and operating experience, Integrated Biotrickling/Biofilter Systems combine the high performance of a biotrickling filter in removing hydrogen sulfide (H₂S), with the VOC and reduced sulfur compound efficiencies of a biofilter. Both of these technologies are housed in a single, pre-fabricated fiberglass system that offers ease of installation and a small system footprint.

One of the design advantages of the Integrated Biotrickling/Biofilter System is that it can be configured to offer multiple zones of treatment for efficient and cost-effective management of complex air streams. Integrated Biotrickling/Biofilter Systems can feature up to three different ‘ecozones’ employing different media, pH humidity and flow design. This allows the growth of micro-organisms that can target specific contaminants in the air stream more effectively and efficiently than a single media system can allow. It also allows for optimization of media life—leading to lower long-term operating costs for both energy and media. Integrated Biotrickling/Biofilter Systems consistently remove H₂S to 99+% levels and can remove other compounds in the over 95+% range.

For the control of odors and VOCs, Perry Integrated Biotrickling/Biofilter Systems are a very robust sustainable solution, offering:

- Reduced chemical usage/storage
- Contaminant destruction
- Reduced energy usage
- Reduced carbon footprint
- Lower overall emissions
- Adaptation to changing odor sources and levels

Advanced System Design & Construction

Perry Integrated Biotrickling/Biofilter Systems feature the latest concepts in odor and VOC control system design – based on our experience of installing over 125 biofilter systems in over 90 locations.

Features include:

- External irrigation piping for easy maintenance and inspection of nozzles
- FRP construction (no corrosion)
- Zonal irrigation control
- Ease of installation (modular)
- “Drop and Load” (i.e., drop unit on pad, then load media)
- Overall “box” profile is sleek and clean (as option, exterior shell can be color-matched to WWTP/site architecture)

Integrated Biotrickling/Biofilter Systems Configurations

<table>
<thead>
<tr>
<th>Model</th>
<th>IBB-550</th>
<th>IBB-860</th>
<th>IBB-1110</th>
<th>IBB-1400</th>
<th>IBB-1800</th>
<th>IBB-2000</th>
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<tbody>
<tr>
<td>CFM</td>
<td>800-1,100</td>
<td>1,200-1,700</td>
<td>1,800-2200</td>
<td>1,534-2,812</td>
<td>1,960-3,593</td>
<td>2,215-4,061</td>
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<table>
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<tr>
<th>Model</th>
<th>IBB-2400</th>
<th>IBB-2650</th>
<th>IBB-3000</th>
<th>IBB-3600</th>
<th>IBB-4500</th>
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<tbody>
<tr>
<td>CFM</td>
<td>2,641-4,842</td>
<td>2,641-4,842</td>
<td>4,090-7,498</td>
<td>4,899-8,982</td>
<td>4,899-8,982</td>
</tr>
</tbody>
</table>
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- Multi-Stage Systems (Round and Rectangular)
- Biogas
- Air Strippers
- Carbon Adsorbers
- Chemical Scrubbers
- FRP Ductwork
- FRP Dampers
- FRP Fans

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- BIO-FGW (Structural Randomly Packed)

Up to 15 year warranty (depending on application)

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Visit our website www.perryfiberglass.com for more information about the Perry multi-stage biotrickling filter/biofilter.
Principle of Odor Scrubbers

The principle of a scrubber is to remove impurities out of the gas stream typically by absorption. For example, gas generated at a wastewater treatment plant will require the removal of Ammonia or sulfide compounds. Scrubbers are designed based on the particular contaminants required to be removed. The contaminated gas flows up while recirculating liquid sprays downward into the packed bed. The gases are absorbed by the solubility levels or by chemical reaction. The airborne vapor is then released into the atmosphere or to a further post treatment process.

Perry’s scrubbers are one of the most economical and effective means of removing gases, odors and vapor fumes from a wide variety of applications. Each system is individually designed and engineered to meet site specific requirements. A typical scrubber includes the vessel with internals, fan, chemical metering pumps, controls, instrumentation and recirculation pumps. Perry Fiberglass can integrate a complete package to include all duct, piping, instruments, fan filter enclosure, access ladder and platform, instruments and controls. Units typically range from 12” to 168” diameter.

Odorous Compounds Controlled

<table>
<thead>
<tr>
<th>H₂S</th>
<th>Aldehydes</th>
<th>NH₃</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines</td>
<td>Acetic Acids</td>
<td>Ketones</td>
</tr>
</tbody>
</table>

Perry Fiberglass Products, Inc.
Experts in designing and manufacturing of odor control and air pollution control equipment
5415 Village Drive Rockledge, Florida 32955 / Phone: 321-609-9036 / www.PerryFiberglass.com
Vessel:
Perry Fiberglass scrubber vessels are designed and fabricated of all type of materials; most common are fiberglass, aluminum and stainless steel. All fiberglass vessels are manufactured per ASTM D-3982, ASTM D-3299 and RTP-1 standards. Most units are one piece construction with no body flanges for ease of installation. Fiberglass units have light blocking UV inhibitors that are applied to prevent UV penetration that can aid in potential biological fouling. Each vessel is designed with site specific seismic and wind consideration.

Packing Media:
Perry Fiberglass provides packing media to match the specific application of the service intended. Most media is random dump type polypropylene that has high mass transfer efficiency, excellent chemical resistance, and low potential for biological or chemical scale fouling.

Scrubber Configurations:
- Counter-Current Vertical Flow (CCV Series)
- Cross-Current Horizontal Flow (CCV Series)

Liquid Distribution:
Perry Fiberglass provides a high quality engineered complete designed liquid distribution system that assures proper liquid flow and the best available wetting of the packing media. The quantity, size, and configuration along with materials of construction are important for proper design and durability. Materials included; PVC, FRP, CPVC, stainless steel and aluminum.

Demisters/Liquid Entertainment Separators:
Perry Fiberglass demisters are supplied as required per the application and requirement of the service intended. Units are supplied as mesh pad assemblies or ridged chevron blade type. Both types are very effective in removal of entrained water droplets.

Tower Cleaning/Wash Down:
Perry Fiberglass offers options for effective ways of cleaning the scrubber vessel, header, packing and demister. These normally include use of piped wash down header connections and spray nozzles. These are designed to use recycled cleaning solutions (usually, HCL or sodium hypochlorite) to flush down the vessel and allow cleaning of all internals.
Scrubbers
Degasifiers / Air Strippers
Carbon Adsorbers
Fans
Storage Tanks
Pumps
Metering Pumps
Stacks
Ductwork
Dampers
Enclosures
Control Panels
Instrumentation and Controls

Design
Fabrication
System Integration
Complete Turn-Key Systems

Perry Fiberglass Products, Inc.
Experts in designing and manufacturing of odor control and air pollution control equipment
5415 Village Drive Rockledge, Florida 32955 / Phone: 321-609-9036 / www.PerryFiberglass.com
Perry Fiberglass Products, Inc.

FRP INDUSTRIAL DUCTWORK

LEADERS IN DESIGNING AND MANUFACTURING
ODOR CONTROL AND AIR POLLUTION CONTROL
EQUIPMENT

Our systems are engineered to create a clean environment.

CALL TODAY FOR TOMORROW’S SOLUTIONS!

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www.PerryFiberglass.com

ESTABLISHED IN 1984
ABOUT PERRY DUCTWORK

Perry Fiberglass engineers and manufactures custom made pipe for a variety of applications. Our FRP products are typically engineered with safety factors of 10:1 against pressure and 5:1 against vacuum. Perry surpasses the performance of commodity FRP ductwork systems at a comparable and often lower cost.

Perry can fabricate duct in virtually any diameter and up to 40 feet in length. Chemical resistant ducting will be filament wound or contact molded depending upon the design conditions specified. To reduce field assembly time and project cost Perry can factory mani-fold your order in the longest practical shippable lengths. Joints either can be butt & wrapped or flanged.

With the ability to manufacture from a variety of thermoset resins, FRP duct outperforms other materials of construction in a broad spectrum of corrosive environments and temperatures.

INDUSTRIES SERVED

- Chip Manufacturing
- Wastewater Treatment Plants
- Laboratory Exhaust
- Clean Rooms
- Plating and Metal Finishing
- Pharmaceutical Plants
- Automotive Plants
- Chemical Storage Facilities
- Diesel/Automotive Exhaust
- Pulp and Paper
- Mining

WHY CHOOSE PERRY FIBERGLASS FRP DUCTWORK PRODUCTS

Perry Fiberglass FRP duct products offer numerous advantages over other duct materials such as galvanized, stainless steel, and PVC. Below you’ll find some of the many reasons we feel Perry Fiberglass FRP ductwork represents the best the industry has to offer:

MATERIAL INTEGRITY
Perry Fiberglass FRP duct is filament wound with glass and resins selected for the application. The duct is manufactured to comply with recognized industry standards and can be customized to your exact specifications.

STRENGTH
Filament winding provides greater hoop strength, resulting in a much stronger duct than other methods of construction such as hand lay-up, and is far superior to metal products in many corrosive environments. Perry Fiberglass FRP duct is lighter than steel while offering superior corrosion qualities and equal air flow performance.

DURABILITY
Superior resistance to corrosion and leakage are hallmarks of Perry Fiberglass FRP ductwork products. The same corrosion resistant qualities can be maintained on both the inside diameter (ID) and outside diameter (OD) allowing for a wide range of applications.

VERSATILITY
Perry Fiberglass FRP duct is available in long lengths—up to 40 feet. A complete complement of standard fittings and special shapes are manufactured. The lightweight duct is exceptionally strong, making it easy for workers to handle on the jobsite. Factory mani-folding color options and custom wall thickness are all available to meet unique job requirements.

EFFICIENCY
A duct system from Perry Fiberglass can be sealed to achieve a liquid-tight system. This assures efficient movement of the exhaust air while moving any risk of contamination.

EASE OF USE
Perry Fiberglass FRP duct can be field installed using simple tools. The joining material is the same glass and resin combination as the duct. Perry Fiberglass can provide field training for the installing personnel. Optional flanged or bell and spigot joints can be provided upon request.
Perry Fiberglass FRP duct products are as versatile and varied as the industries they serve. The wide range of configurations available ensures that we have duct products to meet your needs.

PRODUCT OFFERING

Perry Fiberglass offers two main categories of FRP duct products: Single wall and pre-insulated double wall.

SINGLE WALL
Desirable in corrosive environments.

PRE-INSULATED DOUBLE WALL
If thermal control is a concern, then our pre-insulated double wall duct solves the problem. When supplied with the our standard 1” insulation thickness, our double wall duct has a k factor of 0.14 and an R value of 7. The same corrosion resistant qualities can be maintained on both the ID and OD. Also available in R-5, R-10, R-14 or as specified.

CONFIGURATION OPTIONS

SHAPES
Typical shapes for filament wound construction are round, rectangular and oval. Special shapes such as triangular are also available. Engineering assistance is available for designing projects requiring non-standard construction.

DIAMETER
Duct diameters are available from 2” - 168”. Rectangular sizes are available as required for your projects.

LENGTHS
Lengths up to 40 feet.

FITTINGS
Standard fittings include:

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COLORS
Our standard colors are gray and white. Custom colors are available upon request.
The Perry Fiberglass E series enclosures are designed and manufactured to reduce sound levels (dbs) and protect equipment. Perry enclosures are constructed of high quality Fiberglass Reinforced Plastic (FRP) material, each sound enclosure uses our premier internal sound reduction foam. Fiberglass enclosures offer superior equipment protection from the elements.

**Available Options:**
- Hinged Manway Doors
- Roof Exhaust Fan(s)
- Heavy Duty Lifting Lugs
- Split Housed Enclosure (Available on Most Models)
- High Quality Air Louvers
- Sound Reduction Foam
- Quick Release Latches (Available on Most Models)
- Windows
- Interior and Exterior Lighting

**Product Advantages:**
- Reduce Noise Levels
- Equipment Protection
- Long Lasting / Weather Proof
- Backed by our Best in the Industry Warranty.
- Split Design Option (clam shell style)
GREASE FILTER / MIST ELIMINATOR

The Perry Fiberglass H (horizontal) and V (vertical) series Grease Filter / Mist Eliminators are designed to prevent mist and grease from entering equipment downstream. The Perry H and V series grease filter / mist eliminators use high performance stainless steel and/or polypropylene mesh pads. The mesh pads are designed for 99.9% removal of 10 microns or larger. Each unit is made to order and designed to fit your specific application.

Available Options:
- Flanged Inlet/Outlet
- Quick Release Latches or Bolted for Pad Access
- UHMW Lining to Protect the Housing Corrosion Liner
- Differential Pressure Gauge or Switch
- PVC or CPVC Piping for Differential Pressure Gauge
- FRP Support Legs
- Stainless Steel / Polypropylene Mesh Pad
- Drain

Product Advantages:
- Use a Grease Filter / Mist Eliminator to reduce problems with your FAN and CARBON units.
- Low Maintenance Cost
- Washable Stainless Steel and Polypropylene Pads.
- Low Pressure Drop

Photo shown above: 14,300 CFM Perry H Series Mist Eliminators—New York