

# Vortex Air Technology Produces Superior Air Filtration Solutions

**Among Vortex's Strengths Are Its  
Custom Production, On-Site Engineering,  
Deep Draw Capabilities, and Customer Collaboration**

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Claremont, CA—[Vortex Air Technology, Inc.](http://www.vortex.com), an American manufacturer of innovative solutions to air filtration needs for many industries, offers a wide variety of products, accessories, and services.

Vortex excels at producing custom, high-quality, diverse applications using almost entirely domestic materials. All products are engineered and constructed on site at Vortex's facility in Claremont, California, so there is no need for outsourcing.

Another of Vortex's advantages is the fact that the company performs Deep Draw, a prized and uncommon procedure. Combining Deep Draw with its ability to polish parts to the clearest and brightest finishes possible makes Vortex truly unique.

And Vortex's legendary close collaboration with its customers empowers it to create the perfect custom product for nearly any industrial requirement.

## **PRODUCTS**

Following is a sampling of Vortex Air Technology's product line. For more information on any of these products, please visit [www.vortex.com](http://www.vortex.com).

- **Breather Caps** are rugged, durable, and suitable for the harshest environments. They feature all-steel construction; resistance-welded joints; choice of polyurethane foam, woven galvanized steel mesh, or woven stainless steel mesh interior; and baked polyester powder coat finish.
- **Liquid Samplers** come as standard Liquid Samplers and In-the-Pipe Samplers, with a variety of accessories available.
  - **Liquid Samplers** are precision instruments for capture-grabbing and composite sampling. Easy to install, use, and maintain, they are available in standard 316L stainless steel or Teflon<sup>®</sup>-coated 316L stainless steel on internal surfaces where the effluent is captured.

- **In-the-Pipe Samplers** use a two-ball valve assembly to collect liquid samples. An external upper ball rests on an intake orifice until liquid causes it to float. A lower ball then floats and seals the bottom of the orifice.
- **Accessories** include Grate Assemblies, Sump Assemblies, Eye Bolts and Cables, Sump Assembly Lids, Plug Assemblies, and Teflon® Coating.
- **Separators** use coalescing media to filter oil and dirt out of air, or water out of fuel. Lined with self-washing Vortex filter elements, the customizable separators are vertical mounting and have electrogalvanized-coated, cold-rolled carbon steel construction with black baked polyester coat finish.
- **Air Cleaners** are manufactured in both standard and new Low Profile styles. Truck Blower Air Cleaners, Alternate Fuel Air Cleaners, Oil Bath Air Cleaners, Dry Air Cleaners, and Marine Air Cleaners are also available.
  - **Truck Air Cleaners** use Vortex filter elements to keep truck engines running cleaner longer with their rugged and durable all-T304 stainless steel construction, large dirt-holding capacity, and Vortex-pioneered integrated Inlet Cap design. They're offered in 13-inch and 15-inch models and are fully customizable.
    - **Low Profile Air Cleaners** have shortened screens and studs to put a stylish accent on the rugged, reliable Truck Air Cleaner of choice for truckers around the world.
  - **Truck Blower Air Cleaners** are engineered for longer service life with 99.97% filtration efficiency. Tested to SAE J726C standards, they are available in T304 stainless steel or electrogalvanized-coated carbon steel.
  - **Alternate Fuel Air Cleaners** are used on machines that rely on propane or compressed natural gas as a fuel source. Easy to service and constructed of rugged carbon steel finished in a black baked polyester coating, they have a higher air flow than diesel engine air cleaners.
  - **Oil Bath Air Cleaners** feature self-washing filter elements, large dust-holding capacity, vertical mounting capability, carbon steel construction, and a large variety of sizes.
  - **Dry Air Cleaners** protect engines using advanced filter paper technology to provide up to 99.99% efficiency and are available in single-stage or multistage configurations for the harshest environments.
  - **Marine Air Cleaners** keep engines clean in moist environments where continuous exposure to dust is not a concern. They reduce noise and filter debris before it reaches the engine. They don't rust and are completely washable.

## ACCESSORIES

Following is a sampling of the accessories available for Vortex Air Technology's products. For more information on any of these accessories, please visit [www.vortex.com](http://www.vortex.com).

- **Filter Elements** come tapered with metal ends and gaskets on both ends, with metal end plates and gaskets on the open end, with plastisol ends, with metal end plates that are open on both ends with gaskets on both, and in marine and monel styles.

- **Precleaners** are most often used in extremely dusty environments to reduce the dust load, extend periods between servicing, and lengthen the life of filter elements.
- **Band Brackets**, made of stainless or carbon steel, are primarily used for mounting purposes, typically to mount Vortox air cleaners. Current sizes are 5 to 18 inches, but smaller or larger sizes can be created. Stainless steel brackets are finished in a number 7 buff. Carbon steel brackets can be finished in a black powder coat or left unpainted for customizing.
- **Inlet Caps** are an essential component in the protection of filter elements used in both dry and oil wash air cleaners, functioning as a prefiltering mechanism and water shield.
- **Elbows** for the Truck Blower Air Cleaner comply with the increased expectations of modern truck blowers, which require higher vacuum intake pressure, without collapsing.
- **Truck Blower Accessory Kit**, for connecting the Air Cleaner to the Blower, contains a stainless steel tube, two hump hoses, and four stainless steel hose clamps.
- **Screen Shortening Kit** for the Truck Air Cleaner includes everything needed to create the sleek look of Vortox's Low Profile Truck Air Cleaners without voiding the warranty.

## SERVICES

Following is a sampling of the services provided by Vortox Air Technology. For more information on any of these services, please visit [www.vortox.com](http://www.vortox.com).

- **Contract Manufacturing** is offered in the following areas: Deep Draw, Coalescence Filtration, Air Filtration, Air Separation, Plasma Welding, and Sheet Metal Fabrication.
  - **Deep Draw** is the cornerstone of almost all of Vortox's products and many of its exclusive contracted products. Vortox emphasizes in the range of 12 to 24 gauge in a variety of metals, and it is capable of reaching 250 tons with depth capabilities of 24 inches.
  - **Coalescence Filtration** media are manufactured in-house of galvanized coated and stainless steel wire, ensuring that high ambient-heat applications do not affect performance. Service life can extend for years.
  - **Air Filtration** devices are manufactured for virtually any type of engine or compressor application, and Vortox offers complete engineering, testing, tooling, and manufacturing capabilities to suit both standard and custom applications.
  - **Air Separation** is a core strength of Vortox's engineering capabilities, as applications like compressors, crankcase ventilation, and brake systems require the separation of oil in an air system. Most separators are tailored to specific applications.
  - **Plasma Welding** is performed by two machines capable of producing longitudinal welds on cylinders up to 36 inches length by 20 inches diameter. Custom fixtures provide a seamless and continuous butt weld with 100% penetration. Exceptional control of the heat-affected zone minimizes deflection and carbide precipitation.

- **Sheet Metal Fabrication**, including final assemblies such as spot welding, seam welding, powder coating, and polishing, are completed by Vortox's full welding and fabrication capabilities.

**About Vortox Air Technology, Inc.**

Beginning in the 1950s, Vortox Company participated with others in the industry to establish the basic specifications of all air filtration devices used globally in automotive, industrial, agricultural, and military applications. Vortox designed and developed the integrated cap and screen-polished stainless steel air cleaner seen today on cowl-mounted class 8 trucks and has continued to serve the oil, automotive, trucking, alternative-fuel, electromotive, agriculture, industrial, and defense industries, providing a complete line of oil bath and dry type air cleaners, separators, and accessories to original equipment manufacturers and additional distributors. In January 2010, Vortox Air Technology, Inc. acquired the sales and manufacturing assets of Vortox Company.

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