



Quality • Value • Commitment

AIR MOVEMENT



Fiberglass Fans Engineered for the

Water and Wastewater Industry

The Hartzell Advantage

Hartzell has been manufacturing high quality fiberglass fans since 1957 and has many years of experience in providing insight and innovation to meet the expanding odor control needs of our customers. We have a wide range of products combined with our knowledgeable service

and support to meet our customers' corrosive environment challenges.

Why choose Hartzell:

- Lower noise and better airflow efficiency due to the one-piece solid fiberglass wheel on our centrifugal fans
- Application versatility resulting from our multiple mounting configurations, coatings and colors that are available
- Customization capabilities to meet the ultimate needs of the customer
- Made in the U.S.A. with the highest level of quality

Series 87/88 Centrifugal Exhausters

Various Motor Options

- Single and three phase
- Two speed
- Explosion proof
- IEC
- Frame sizes from 56 to 213T (145T for wall mount fans)

Cooling Tubes

- Allows air to ventilate inside motor compartment
- Keeps contaminated air and rain out of compartment

Optional Outlet Guard (not shown)

- 304 or 316 Stainless
- Keeps birds or other debris out of fan

Precision Inlet Cone

- Closely matches wheel inlet
- Allows for high air flow at higher pressures with lower noise at a lower rpm

Solid FRP Construction

- Motor and drives protected from airstream
- Vinylester resin with chemical, flame and ultraviolet resistant coating
- Weatherproof joints
- 316 Stainless hardware (Monel also available)
- All hardware in airstream is FRP encapsulated
- Metric hardware available
- Optional ASTM D4167-97 construction available

Vibration Isolators

- Reduces noise and mechanical vibration

Fan Shaft

- Fiberglass and neoprene seal protects motor and drives from contaminated air (Teflon also available)
- All portions of the shaft in the airstream are FRP encapsulated
- 304 and 316 Stainless along with Monel shafts are available on belt drive fans

Type FE FRP Wheel

- 12 to 40 inches in CW and CCW rotations
- Airfoil blade shape
- Vinylester resin
- Molded as a single piece and removed from pattern whole
- Excellent repeatability and consistent performance

FRP Curb Panel

- Easily attaches to roof curb or wall boot



Series 58E and 41



Screen washing Series 41 with odor control scrubber



Series 88 with electrostatic grounding and hoods

The Hartzell Product Line

General Ventilation



Fiberglass Wall Ventilators – Series 59
Direct drive wall ventilator designed for general ventilation where corrosive elements exist in fume or vapor form. Temperatures to 180° with specially insulated motors. Unit constructed of solid fiberglass. Sizes 12" to 60". Performance from 1,315 to 55,500 CFM at free air. Request Bulletin A-137.



Fiberglass Upblast Roof Ventilator – Direct Drive – Series 57
Provides an efficient, yet economical choice for general ventilation of mild corrosive atmospheres. Suitable for temperatures up to 180° with specially insulated motors. Sizes 28" to 60". CFM from 7330 to 50,400 at free air. See Bulletin A-141 for details.



Fiberglass Upblast Roof Ventilator – Belt Drive – Series 37
Meets the need for a heavy duty, belt drive, upblast ventilator with motor out of the airstream. Ideal for applications where severe corrosive elements are present. Available in sizes 12" to 60". Performance ranging from 1260 CFM to 61,765 CFM at free air. See Bulletin A-141 for details.



Fiberglass Hooded Roof Ventilator – Belt Drive – Series 58
Hooded ventilator's design provides complete protection from the elements for exhaust operation. Unit's belt drive configuration and exterior motor mounting makes this the logical choice where corrosive elements exist and protection from the weather is essential. Sizes 12" to 60" with CFM from 1280 to 63,470 at free air. See Bulletin A-141 for details.



Fiberglass Centrifugal Exhausters - Series 82 Direct Drive Downblast (shown), Series 83 Belt Drive Downblast, Series 87 Direct Drive Upblast, and Series 88 Belt Drive Upblast
The fiberglass exhausters provide a low profile roof or wall exhaust solution in a corrosive environment. Sizes 12" to 40" with CFM from 500 to 22,000. See Bulletin A-161 for specific details about each model.

Process Ventilation



Fiberglass Duct Fans Belt Drive – Series 34
Direct Drive – Series 28
Best suited for applications with low static pressure characteristics where some corrosive elements exist. Sizes 12" to 60". Belt drive units have open end motors as standard with CFM from 1370 to 62,200 at free air. Direct drive units have totally enclosed air over XT motors as standard with CFM from 1325 to 66,700 at free air. See Bulletin A-139 for details.



Fiberglass Duct Axial Fans Belt Drive – Series 35
Direct Drive – Series 29
Designed for maximum efficiency in the static pressure range of 1" to 3" at low speeds and low noise. Internal hardware of stainless steel. Sizes 12" to 60". Belt drive units have open end protected motors as standard. CFM from 470 to 70,000 at 1" S.P. Direct drive units have totally enclosed chemical plant motors as standard. CFM from 1204 to 68,950 at free air. See Bulletin A-139 for details.



Fiberglass By-Pass Fan – Direct Drive – Series 28B and 29B
Engineered and built to be used in a variety of corrosive applications. Direct drive motor out of the airstream. Suitable for temperatures to 200°F with specially insulated motors. 28B has Type FW low pressure propeller; 29B has Type E, medium pressure propeller. Sizes 24" to 48", with performance ranging from 6012 CFM to 46,145 CFM at free air. See Bulletin A-139 for details.



Fiberglass Inline Centrifugal Blowers Belt Drive – Series 40
The inline blower offers straight airflow for duct installations with the highly efficient, backward curved airfoil-bladed wheel in a vane equipped tube. Identical inlet and discharge dimensions. Compact, efficient low noise units. Sizes 12" to 60" wheel diameters. Performance from 800 to 85,000 CFM. Static pressures to 12". Request Bulletin A-131.



Fiberglass Backward Curved Centrifugal Blowers, Belt Drive – SWSI – Series 41 (Shown)
Fiberglass Backward Curved Centrifugal, Packaged - Series 41P
Airfoil, one-piece solid fiberglass wheel has non-overloading horsepower characteristics. The wheel and housing constructed with special corrosive-resistant polyester resin plus flame retardant additives. Internal hardware is stainless steel. No metal parts are exposed in the airstream. Sizes 12" to 60" wheel diameters. Static pressures up to 20" W. G. Performance from 700 to 84,000 CFM at 5" S.P. Request Bulletin A-160.



Fiberglass Radial Blowers – Belt Drive – SWSI – Series 43
Versatile corrosive resistant air-moving blower is designed for installations where air flows at static pressures up to 16" W.G. Clockwise rotation. Rotatable in field. Internal hardware of stainless steel. Available in Arr. #1, #9 or #10. Sizes 16" to 33" wheel diameters. Performance 977 to 14,659 CFM at 8" S.P. Request Bulletin A-140.



Fiberglass Radial Blowers Direct or Belt Drive – SWSI – Series 42
Suited for lab hood installation at static pressures from 0" to 8". Clockwise rotation. Rotatable in field. Packaged unit completely assembled. Internal hardware is of stainless steel encapsulated with fiberglass. Sizes 10", 12" and 14" wheel diameters. Performance from 100 to 2000 CFM at 2" S.P. Request Bulletin A-140.



Fiberglass Air Control Products

Fiberglass Fixed Blade Louver – FFL
For air intake or relief applications.
Fiberglass End-Pivoted Shutter – FEP (Shown)
Recommended for gravity back-draft prevention applications.
Fiberglass Center-Pivoted Low Velocity Damper – FLC
Recommended for back-draft prevention applications. Manually or motor operated.
Fiberglass Center-Pivoted High Velocity Damper – FCO/FCP
For volume control and back flow prevention in medium to high pressure applications. Parallel or opposed blade. Request Bulletin A-138.

Hartzell Air Movement Provides Product Solutions for the Water and Wastewater Treatment Industry

Features

Hartzell's extensive fiberglass product offering provides the optimal solution for many areas of a wastewater plant or wherever odor control is needed. In addition, all Hartzell fiberglass fans are tested in accordance with AMCA standards ensuring that our fans provide the results that our customers expect.

- Hartzell's one-piece solid fiberglass wheel utilized in centrifugal blowers offers lower noise and better airflow efficiency.
- Fiberglass wall exhausters can be provided with custom-size wall boot, intake hood, and fiberglass



dampers to make installation easier and more efficient.

- Our centrifugal fans can be used in conjunction with scrubbers and bio filters to provide low noise and efficient air movement through the unit.
- Multiple coatings are available, including Hartzell's own HartKoate, which provides moisture protection for fiberglass fans as well as UV inhibitors, which protect fiberglass fans from the sun's harmful rays. These proven coatings for our fiberglass fans provide excellent protection for extended service life.



- Hartzell industrial fans and blowers provide solutions for wastewater treatment plants including headworks, wet wells and dry wells for your primary and secondary systems.
- Our one-piece, solid fiberglass wheel design provides end users with high efficiency, low noise and long service life.
- Hartzell's custom construction options, including stainless steel, can be utilized to meet the specific requirements of the municipality being served.
- Our wide range of fiberglass accessories provide customers with a complete engineered solution, all from one manufacturer — Hartzell.

Benefits

Hartzell fiberglass fans can solve the most difficult corrosive and odor control problems, including Hydrogen Sulfide (H_2S) which is prevalent in most wastewater treatment applications. Hartzell's engineering and sales experts can help select the optimal solution for odor control challenges.



AIR MOVEMENT

Hartzell Air Movement
Piqua, Ohio
Portland, Indiana
Singapore

1-800-336-3267

www.hartzellairmovement.com/wwt
info@hartzell.com

