

VORTECH™ SERIES

***The World Leader in
Powder Coating Systems***



VORTECH™ Series Powder Coating Booth

With the VORTECH Series, ITW Gema presents a powder coating booth that uses an integrated multi-cyclone and cartridge assembly to provide fast, efficient color change and recovery options.

ITW Gema

Superior By All Measures

1 Innovative Booth Designs

- Specially-designed integrated separators in the VORTECH Series require **no explosion venting**.
- The system **eliminates the need for ductwork**, making installation simpler.
- Separators are engineered to reduce the risk of color contamination in all configurations.
- The VORTECH Series **can be installed within a 10-foot height constraint**.
- To allow visual monitoring of both manual and automatic gun performance, the booth is available in a combination of **clear polycarbonate** material and stainless steel.
- Bolted construction makes the upper structure easy to assemble and/or modify, if required.
- The entire mini-cyclone unit can be easily accessed through the removable panels on both sides of the unit.
- For fast and convenient installation, the booth base is shipped **preassembled** and comes fully **prewired and preplumbed**, including all necessary air and power connections.
- Final filter assembly is mounted in the base, significantly reducing the overall system dimensions and installation time.
- **Booth ranks as quietest** on the market (74dB).

2 Precise Air and Particle Flow Management

- The proprietary “Autodamper™” control on the VORTECH Series manages the airflow through the unit, creating an **optimal coating environment**.
- Coupled with the VORTECH Series booth’s superior airflow characteristics, the Autodamper dramatically **increases application efficiency**.
- The air volume is automatically adjusted to compensate for part vestibules, gun, conveyor, and touchup slots.



- When the unit is fitted with a PLC, the transducer **keeps the airflow in a pre-determined range**.
- The VORTECH Series booth is engineered for lower static pressure operation, reducing energy costs.

3 A Robust Recovery System

- The VORTECH Series booth delivers **fast, efficient color change and recovery options**.
- The VORTECH Series booth features an integrated multi-cyclone and cartridge assembly unit offering **simple conversions and color change flexibility**.
- **Vertical mini-cyclones are more efficient** and easier to clean than horizontal or large-body cyclones.
- The separator arrangement ensures that airflow is evenly channeled through proprietary VORTECH inlet veins, helping you manage a wide range of powder types and particle distribution strategies.
- The unit also features a cyclone collection transfer hopper.

4 Convenient Conversion and Cleaning

- For short or intermittent runs, **one simple operation** that rapidly deactivates and bypasses the cyclone module **can convert the unit from recycle to spray-to-waste mode in less than 5 minutes**.
- The cyclone unit is not contaminated with the new color, since the powder bypasses the cyclone module and enters directly into the cartridge unit for collection.
- The entire unit can be easily **converted from spray-to-waste to reclaim mode in less than 45 minutes**.
- The cyclone module is removable for easy cleaning and maintenance.
- **Removable panels on both sides of the cyclone unit** allow 100% visual confirmation of cleaning while minimizing contamination potential.
- During normal operation, an intermittent backpulse of compressed air into the horizontally mounted cartridge filters efficiently releases the powder from the filter surface.



All units are covered by
ITW Gema's unique
5-year warranty.

VORTECH™ Series Powder Coating Booth System Operation

The VORTECH™ Series booth is available in a combination of clear polycarbonate material and stainless steel, or all stainless steel.

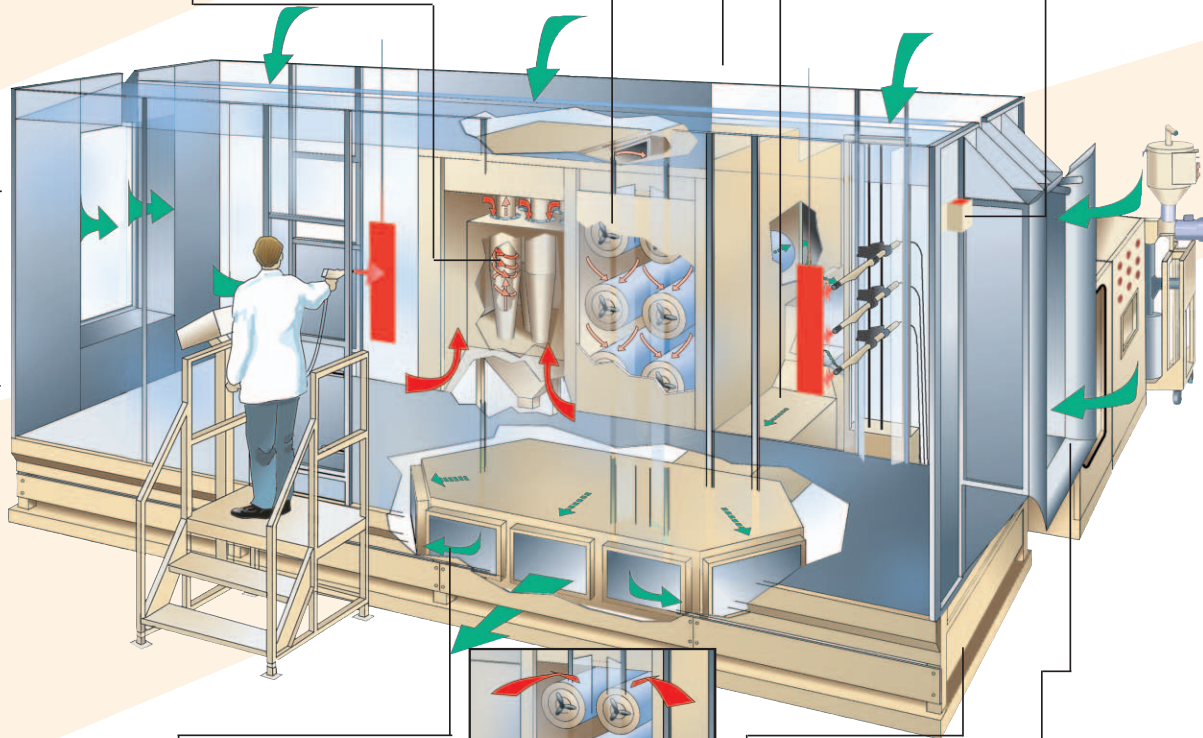
The VORTECH utilizes the power of multiple mini-cyclones that are easier to clean and perform more efficiently than large body cyclones.

The integrated cartridge collection unit features high efficiency filters that capture 100% of overspray.

The VORTECH fits into a 10-foot height constraint and is easy to assemble and modify.

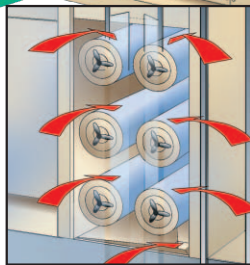
“Autodamper” manages the airflow through the unit, creating an optimal coating environment.

To meet the National Fire Protection Association (NFPA) Guidelines for safety, the Vortech Series booth comes equipped with a flame detection unit for automatic gun applications.



The VORTECH Series booth is engineered to reduce color contamination in all configurations.

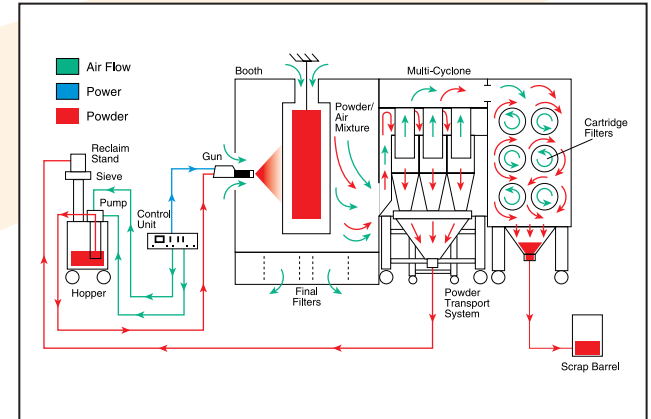
The final filter assembly is mounted in the base to lower the noise level and reduce system dimensions.



The integrated cartridge collection unit (above) offers convenient conversion from recycle to spray-to-waste through one simple operation.

The booth base is fully prewired and preplumbed for fast, convenient installation and is shipped preassembled.

The aerodynamically designed vestibules deliver optimum air flow to enhance coating performance.



The VORTECH™ Series powder coating booth is compatible with all of ITW Gema's automatic and manual guns.

What To Look For In Your Next Powder Coating System

- Flexibility that meets your color reclaim requirements
- A booth that needs no explosion venting or ductwork
- A booth that fits within 10-ft. height constraints
- Clear polycarbonate booth upper structure, standard
- A fully prewired and preplumbed booth base, standard
- Proprietary Autodamper™ control produces optimal coating environment
- Vertical mini-cyclones
- Conversion to spray-to-waste through one simple operation in less than 5 minutes
- Conversion from spray-to-waste to recycle mode in less than 45 minutes
- A removable cyclone module
- Safe operational noise levels



Why Should I Buy A VORTECH™ Series Power Coating Booth?

- For fast, efficient color change flexibility
- For recovery applications with 4 or more colors
- For color change frequency ranging from multiple times daily to monthly
- For high material utilization efficiency

Service and Support

In addition to our unique five-year warranty, our products are supported by a dedicated service team. ServiceNet™ is our 24-hour nationwide network of engineers and factory-trained distributors ready to provide you with a high level of local support. In addition, we offer:

- Factory direct field service staff for emergency situations
- Repair center in Indianapolis, Indiana
- System installation and start-up assistance
- Product and/or powder testing
- R&D lab for very specialized application testing
- Operator training in Indianapolis, Indiana (single or multi-day programs available)
- Field training programs conducted by the Regional Technical Engineer

Number of Colors

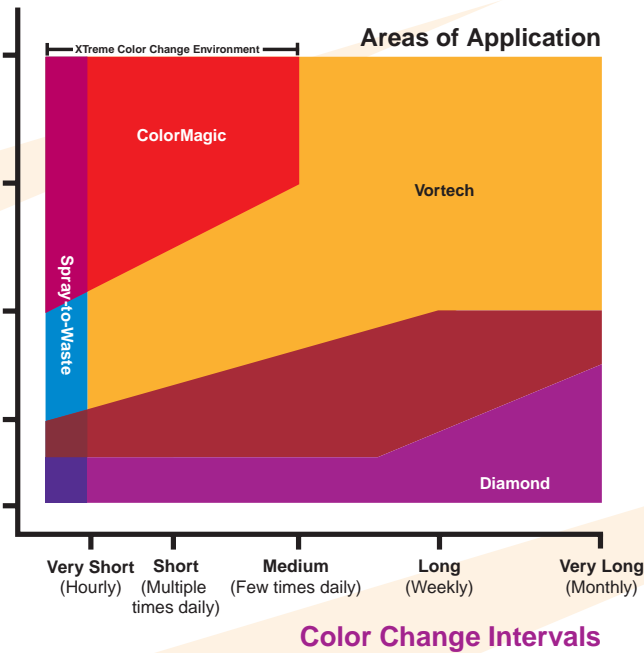
Very High
(11 or more colors)

High
(7 - 10 colors)

Medium
(5 - 6 colors)

Few
(2 - 4 colors)

1 color



The VORTECH™ Series powder coating booth's mini-cyclones are easily accessed and clearly visible for inspection.



All ITW Gema products are covered by ServiceNet.



Member of The Powder Coating Institute



ITW Gema

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