



## Single and Twin High Efficiency Cyclone Dust Collection Systems

The **Tornado** has no moving parts other than the fan and no internal filter to replace making it the most maintenance free dust collection available.

## Applications

- Media Blasting
- Mixing Operations
- De-burring
- Woodworking
- Classifying / Pre-filtration
- Material Handling
- Robotic Finishing
- Mining

## Features

- High-Efficiency Design
- TEFC Motors
- Direct Drive AMCA Rated Fans
- Keyless Bushings
- Structural Steel Framing
- Chemical & Corrosion Resistant Durethane DTM, Industrial Urethane Mastic Coatings
- Solid Welded & Flanged

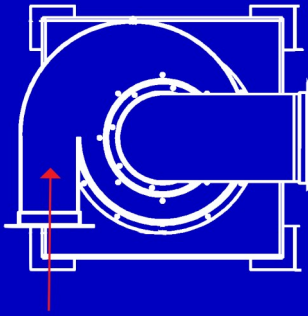
## Options



- Outdoor Exhaust Terminations
- Motor Control Packages
- Safety After-Filters
- Sound Attenuators
- Transitions
- Custom Sizing



## THE INLET



### Our Involute Inlet

Centrifugal force causes heavier dust particles to move outward toward the cyclone wall. Friction and gravity then force the dust to fall into a receiver. Cleaned air spirals up the center vortex of the cyclone and exits at the top.

It is extremely important that the vortex that forms in the center of the cyclone and exits the exhaust is not contaminated by particulate entering the cyclone. The ProVent TORNADO TXE and TXEF prevents this by initiating centrifugal force in the inlet forcing particulate to the outside of the cyclone prior to entering the cyclone. This is known in the industry as an involute inlet and makes ProVent dust collectors the most efficient in the industry.

Tornado TXE and TXEF are the best designed, built and efficient cyclone dust collectors on the market.

## A CLOSER LOOK

### TXE

Using a special high-efficiency design, the Tornado TXE is capable of approximately **90%** collection efficiency down to 15-20 micron particles.



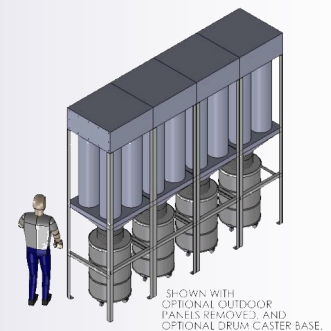
### TXE-Twin



The Tornado TXEF adds a **second** high efficiency cyclone arranged *in-series* on a single platform. TXEF is capable of approximately **99%** collection efficiency down to 15-20 micron particles. Tornado TXE and TXEF high efficiency cyclones are some of the most maintenance free dust collectors available. With no moving parts other than the motor and no filters to replace, they will provide years of low-maintenance, reliable service.

## AFTER-FILTER OPTIONS

For applications involving particulate below 15 microns, optional after-filter assemblies are also available. Polyester Felt Bags provide standard efficiencies of 96% down to 5 micron. Alternate filtration media can also be used to further increase particle collection efficiency—including HEPA for 99.97% to .3 micron.



Model	CFM LOW $\Delta P 2''$	CFM PEAK EFFICIENCY $\Delta P 4''$	CFM HIGH $\Delta P 6''$
TXE-32	440	586	732
TXE-46	694	919	1145
TXE-60	840	1113	1386
TXE-76	1174	1555	1937
TXE-93	1360	1802	2244
TXE-125	1778	2355	2933
TXE-160	2250	2981	3712
TXE-200	2778	3677	4577
TXE-260	3674	4917	6161
TXE-330	4694	6219	7745
TXE-400	5840	7738	9636
TXE-510	7100	9407	11715
TXE-620	9000	11925	14850
TXE-760	10560	13992	17424
TXE-920	12840	17013	21186
TXE-1120	16000	21200	26400

## A Note About CFM

Cyclones can be utilized on a number of different applications. Volume (CFM), pressure (wg), and velocity (FPM) all impact performance. ProVent can help you make the proper selection based on your specific application.

Contact your ProVent agent today!

## Fan Packages and Scrolls

ProVent will be happy to assist in the precise sizing of your fan assembly. There are many factors other than CFM that will determine the equipment size and fan package that will be needed to meet your performance requirements. Instead of offering standard units that may be "close" to meeting your system requirements, we size our equipment taking into account particle size, static pressure loss throughout the system and efficiency needs.

The ProVent TXE or TXEF is designed for your application to meet your needs. We do not provide standard designs which may require oversizing equipment to meet your CFM requirements. Contact your ProVent sales agent for more information.



Dust & Oil Mist Collection Equipment For Industry

**Total Air/Energy SOLUTIONS**  
Technology • Efficiency • Performance



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