# DustHog® C Series

CYCLONE DUST COLLECTORS

Parker

ENGINEERING YOUR SUCCESS.

# C Series Cyclone Dust Collectors

The Most Effective Way To Remove Large Size Contaminants from your factory.

## High-Efficiency Cyclone Separator

The DustHog® C Series cyclone is designed to effectively remove large to moderate-size particles (chips, metal grindings, sawdust) from the air stream. Used alone or in conjunction with another dust collector, the cyclone separates coarse contaminants from fine, non-visible particles, and exhausts clean air.

The cyclone dust collector offers airflow capacities ranging from 800 to 13,000 CFM. Its high-efficiency performance is accomplished by means of the unit's long tapered cone, high-velocity inlet and welded helix. Dirty air enters the unit at a high speed and is then spun around in a spiral motion, throwing particles against its cone wall. Centrifugal force pushes the larger or heavy dust particles down through the narrow part of the cone and into a collection drum or hopper. Cleaned air runs back up through the center of the unit and is discharged back to the atmosphere or into a genuine replacement filter for further processing.

## Applications

- Buffing
- Bulk Powder
- Conveying
- Fiberglass/Plastic
- Grinding
- Machining
- Polishing
- Sawing
- Woodworking

## Options and Accessories

Parker Hannifin provides a comprehensive selection of options and accessories to enhance the performance of your C Series cyclone dust collector. Some of these include:

- **Explosion Relief Vent**
  Minimizes damage and provides a degree of personal protection in the event of an explosion that may result when collecting explosive dusts.
- **Silencer Package**
  Duct-type and acoustical foam-lined fan housing silencers reduce unit noise levels.
- **Fully Welded Construction**
  Provides a complete, airtight seal to meet unique specifications.
- **Replacement Filter Magnehelic® Gauge Kit**
  Monitors pressure drop to indicate when filters need to be changed.

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- Access doors
- Aluminum fan wheel
- Drum lid latch kit/slide gate
- Explosion-proof motor
- Explosion venting
- Increased hopper clearance
- Leg extensions
- Lined plenum
- 208/3/60 motor option
- Scroll outlet
- Sprinkler heads
- Stainless steel
- Starter panel with fused disconnect
- Throw out bin

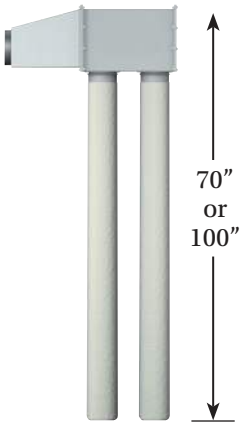
## C Series Cyclone Configurations

| | | | Overall Height (inches)* | | | | | | Replacement Filter Options | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | CFM | Motor (HP) | Cyclone | 1D (One Drum) | 2D (Two Drums) | 60H (60ft$^3$ Hopper) | 110H (110ft$^3$ Hopper) | Weight (lbs)*** | Interior | Exterior |
| C-190 | 800-1,200 | – | 49 1/8" | 92 7/8" | 114 3/4" | 193 1/2" | 209 1/2" | 235 | – | – |
| C-192 | 800-1,200 | 2 | 64 3/4" | 108 1/4" | 130 3/8" | 209 1/8" | 225 1/8" | 320 | AF192 | – |
| C-200 | 1,250-2,250 | – | 62 3/16" | 108 3/16" | 121 3/16" | 204 15/16" | 220 15/16" | 320 | – | – |
| C-203 | 1,250-2,000 | 3 | 79 3/16" | 125 3/16" | 137 3/16" | 222" | 238 5/8" | 430 | AF4, C9-E | C9-W |
| C-205 | 1,500-2,250 | 5 | 80 9/16" | 126 9/16" | 138 9/16" | 223 3/8" | 240" | 450 | | |
| C-240 | 2,000-3,500 | – | 73" | 119 1/8" | 131 1/8" | 210" | 226" | 435 | – | – |
| C-247 | 2,000-3,500 | 7 1/2 | 95 3/8" | 141 5/8" | 153 5/8" | 232 1/2" | 248 1/2" | 605 | AF4, AF8, C9-E, C18-E | C9-W, C18-W |
| C-3000 | 3,000-5,500 | – | 92 1/2" | 138 1/8" | 150 1/8" | 228 13/16" | 245 3/32" | 621 | – | – |
| C-3010 | 3,000-4,500 | 10 | 113 15/16" | 159 9/16" | 171 9/16" | 250 7/16" | 266 1/2" | 870 | AF8, C18-E | C18-W |
| C-3015 | 4,000-5,500 | 15 | 119 1/2" | 165 1/8" | 177 1/8" | 256" | 272 1/16" | 883 | | |
| C-3600 | 4,500-8,000 | – | 112 1/16" | 154 3/4" | 161 3/4" | 241 3/8" | 257 9/16" | 995 | – | – |
| C-3620 | 4,500-7,000 | 20 | 151 3/16" | 194" | 201" | 284 7/8" | 301 1/4" | 1,763 | AF12, C18-E | C18-W |
| C-3625 | 4,500-7,500 | 25 | 152 3/16" | 195" | 202" | 286" | 302 1/4" | 1,857 | AF12, C27-E | C27-W |
| C-3630 | 5,000-8,000 | 30 | 154 3/16" | 197" | 204" | 287 1/2" | 303 3/4" | 1,934 | | |
| C-4400** | 8,000-13,000 | – | 155" | 202 3/16" | 211 3/16" | 260 7/16" | 276 5/8" | 1,147 | – | – |
| C-4440** | 8,000-11,500 | 40 | 175 9/32" | 249" | 257 13/16" | 307" | 323 1/4" | 1,594 | AF18, Two C18-Es | Two C18-Ws |
| C-4450** | 8,000-13,000 | 50 | 175 9/32" | 249" | 257 13/16" | 307" | 323 1/4" | 1,745 | AF24, Two C27-Es | Two C27-Ws |

*Heights include motor/blower where applicable.
**C-44 Series unit heights include throw-out bins.
***Weight does not include drum or hopper options.

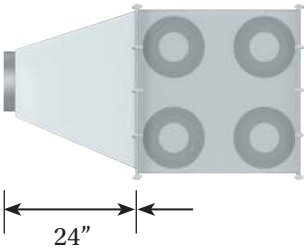
## Choosing a Replacement Filter

Depending on your application, building specifications and other factors, it may be necessary to use replacement filters in conjunction with the C Series cyclone. In this case, the cyclone dust collector captures the heavier contaminants while the replacement filter removes the fine particles that may not be seen, but are harmful to breathe. Replacement filters can be used indoors and outdoors, and can be directly mounted to the C Series cyclone or remotely located using ducting.

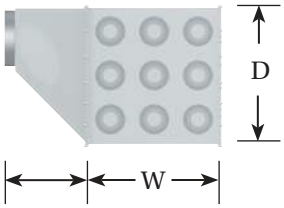



AF4 Front

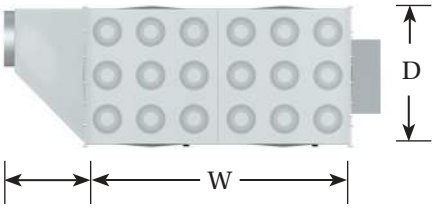
AF4 Top



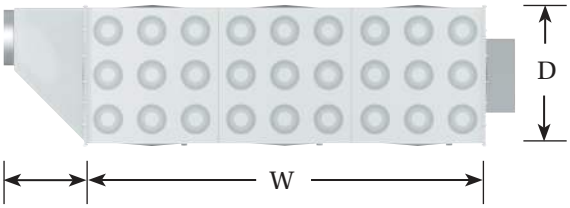

C9-E Top




C18-W Top

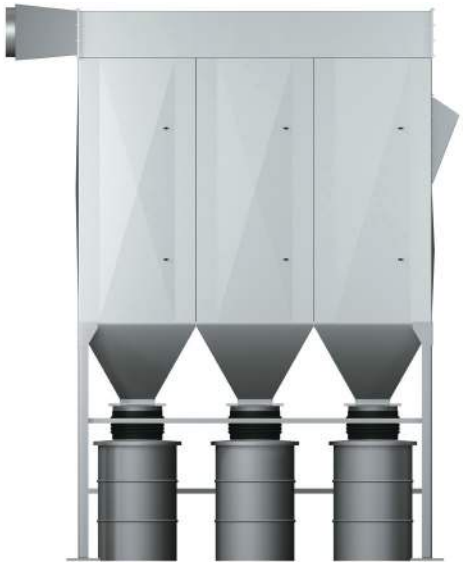



C27-W Top



C9-E Front

C18-W Front



C27-W Front

## AF Versus C Series

For indoor cyclone installations, Parker Hannifin offers genuine AF series replacement filters. These replacement filters bolt directly to the cyclone blower outlet or are remotely mounted using interconnecting ducting. AF-Series genuine replacement filters consist of up to 24 10 oz. polyester felt zippered filter tubes.

Another option is the C Series replacement filter, which can be installed inside or outside your facility. These units remotely connect to the cyclone with ducting and empty into 55-gallon drums. Standard filter media are 9 oz. polyester felt bags. Outdoor C Series units are designated with a “W” for weather enclosure, and are constructed using epoxy-coated cold rolled steel for the harshest environmental conditions. A Parker Hannifin Representative can help you determine which replacement filter is the best fit for your specific application.

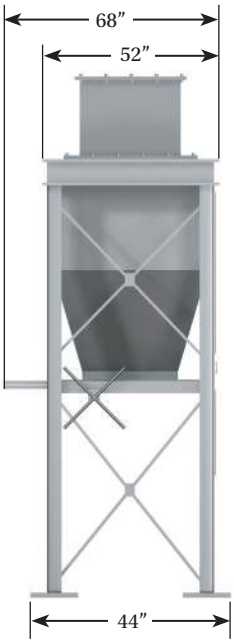
## AF Series Replacement Filters

| Model | W | D | Height Interior | Filter Area ($ft^2$) | No. of Filters | Unit Weight (lbs) | Recommended Cyclone |
|---|---|---|---|---|---|---|---|
| AF192 | 30" | 8" | 72" | 25 | 1 | 20 | C-192 |
| AF4 | 51” | 27” | 89” | 72-104 | 4 | 91-95 | C-203, C-205, C-247 |
| AF8 | 78” | 27” | 119” | 208 | 8 | 182 | C-247, C-3010, C-3015 |
| AF12 | 78” | 40” | 119” | 312 | 12 | 244 | C-3620, C-3625, C-3630 |
| AF18 | 105” | 40” | 119” | 468 | 18 | 366 | C-4440 |
| AF24 | 132” | 40” | 119” | 624 | 24 | 488 | C-4450 |

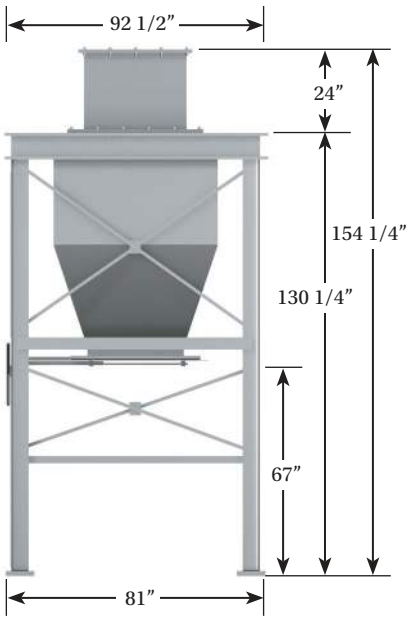
## C Series Replacement Filters

| Model | W | D | Height Interior | Filter Area ($ft^2$) | No. of Filters | Unit Weight (lbs) | Recommended Cyclone |
|---|---|---|---|---|---|---|---|
| C9-E/C9-W | 34" | 34" | 156" | 119 | 9 | 600/645 | C-203, C-205, C-247 |
| C18-E/C18-W | 68” | 34” | 156” | 238 | 18 | 1,175/1,225 | C-247, C-3010, C-3015 C-3620, C-4440 |
| C27-E/C27-W | 102” | 34” | 156” | 357 | 27 | 1,750/1,805 | C-3625, C-3630, C-4450 |

## Storage Hoppers

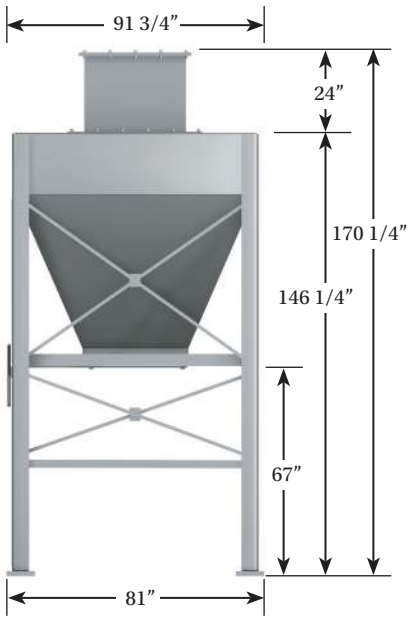



Model C60H Side




Model C60H Front

Model C110H Side



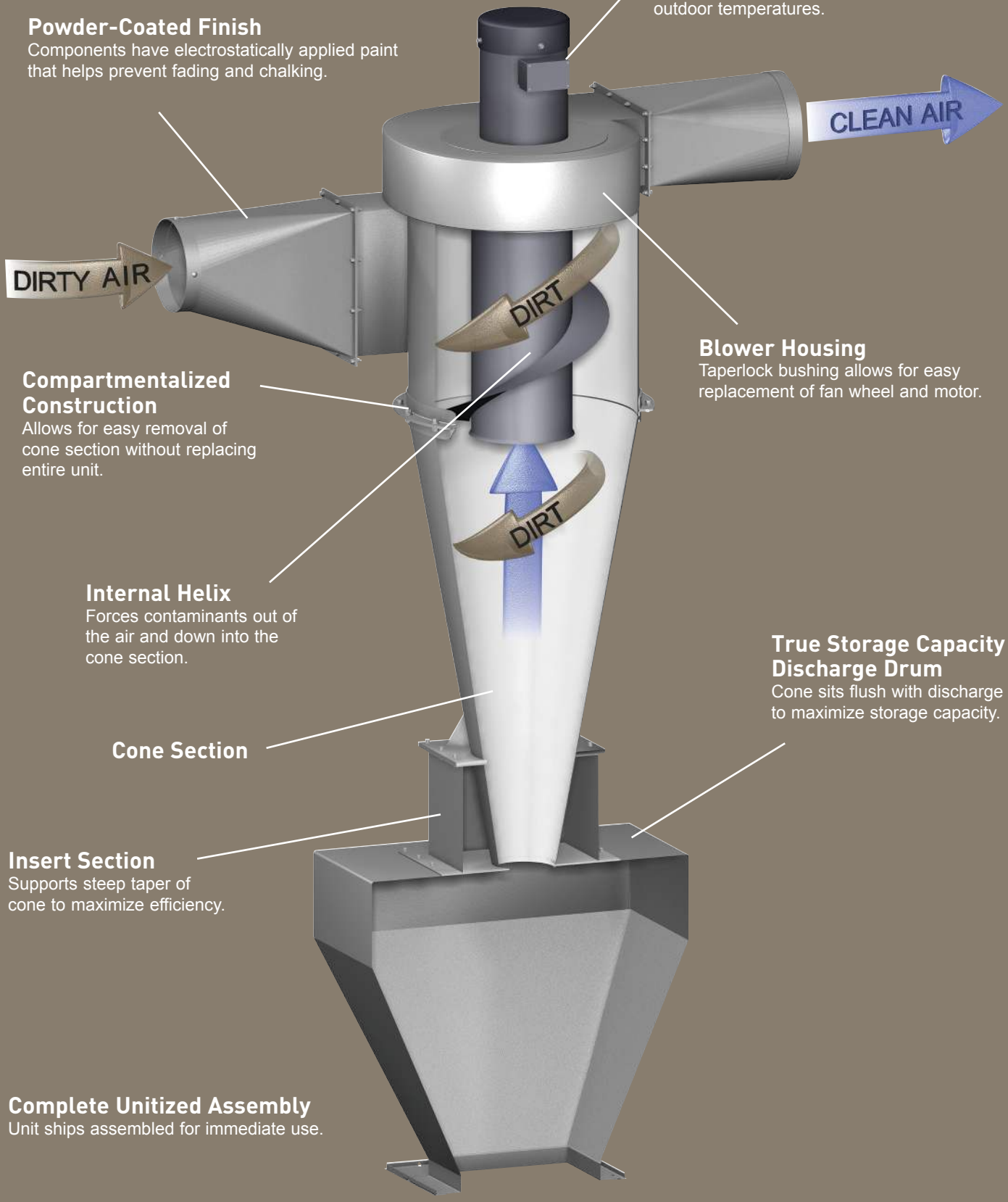

Model C110H Front

DUSTHOG

## Features and Benefits

**TEFC Motor**
Able to withstand indoor and outdoor temperatures.

**Powder-Coated Finish**
Components have electrostatically applied paint that helps prevent fading and chalking.




**Blower Housing**
Taperlock bushing allows for easy replacement of fan wheel and motor.

**Compartmentalized Construction**
Allows for easy removal of cone section without replacing entire unit.

**Internal Helix**
Forces contaminants out of the air and down into the cone section.

**True Storage Capacity Discharge Drum**
Cone sits flush with discharge area to maximize storage capacity.

**Cone Section**

**Insert Section**
Supports steep taper of cone to maximize efficiency.

**Complete Unitized Assembly**
Unit ships assembled for immediate use.

## Customized System

The C Series cyclone offers a variety of configurations to help meet your company's industrial air cleaning needs. With the assistance of a Parker Representative, you can actually "design" a cyclone unit and replacement filter to match your specific application. Select the direction of the inlet and discharge areas, exhaust clean air back into your plant or outdoors, or choose to use the cyclone alone or with a replacement filter.

Different industrial applications generate varying amounts of dust and debris, so Parker Hannifin offers a variety of discharge options. For small quantities, you have the choice of 30- and 55-gallon drums that can be configured under the cyclone unit as a single-or two-drum configuration. For larger loads, you may opt to use the Model C60H hopper, which has a storage capacity of 60 $ft^3$ or Model C110H, which can hold 110 $ft^3$. Additionally, you can add rotary airlocks to your system to constantly discharge dust from a throw-out bin into an external dust storage container.

## Energy Efficient

C Series cyclone fans are self-cleaning, material handling radial blades designed to deliver peak airflow with low horsepower to conserve energy. All models can be installed indoors or outdoors, and clean air can be returned inside your factory if the cyclone is equipped with a replacement filter.

## Discharge Options

One 30 or 55-Gallon Drum
(30 gal. shown)

Two 30 or 55-Gallon Drum
(55 gal. shown)

60 $ft^3$ or 110 $ft^3$ Hopper
(C110H shown)

Parker Hannifin is committed to providing clean air solutions that protect your employees, improve plant performance and enable you to realize your operating goals.

Our commitment is backed by continuous investment in research, leading-edge technology and product development, our people whom are the most knowledgeable in the industry, and a product portfolio that is proven to deliver results. We have been solving problems for you, our customers across the globe for over 50 years.

## Industrial Applications

- Abrasive Blasting
- Batch Mixing
- Blending
- Buffing
- Bulk Powder Handling
- Carbon Black
- Cast Iron
- Drilling
- Dry Chemicals
- Filling
- Finishing
- Grinding
- Material Handling
- Metal Working
- Packaging
- Paint Pigment
- Paper Dust
- Polishing
- Powder Coating
- Sanding
- Sawing
- Screening
- Smelting
- Spices
- Weighing
- Welding
- Wood Dust

**Important** – Understand and follow NFPA guidance in selecting equipment for your intended application, including required safety devices and testing your dust to determine combustion hazards. At your election, we can coordinate sample collection and testing.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