



**United Air Specialists, Inc.**

a CLARCOR company

**C SERIES**



CYCLONE DUST COLLECTORS

*Clean air. It's what we do.™*

# C SERIES

## CYCLONE DUST COLLECTORS

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

### HIGH-EFFICIENCY CYCLONE SEPARATOR

Industrial processes generate contaminants in a variety of sizes. Some particles are visible to the human eye, while others are not. Large or small, many of these pollutants are harmful to your employees and need to be removed from the air to ensure a safe breathing environment. That's why United Air Specialists (UAS) created the C Series Cyclone dust collector.

The 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.

UAS' 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. Clean air runs back up the center of the unit, is discharged through the outlet and then exhausted back into the environment for safe breathing.



### APPLICATIONS

- Buffing
- Polishing
- Fiberglass/Plastic
- Sawing
- Grinding
- Woodworking
- Machining



Clean air. It's what we do.™

## 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 UAS Representative, you can actually "design" a Cyclone unit and after-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 UAS after-filter.

Different industrial applications generate varying amounts of dust and debris, so UAS 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<sup>3</sup> or Model C110H, which can hold 110 ft<sup>3</sup>. 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 UAS after-filter.

## DISCHARGE OPTIONS



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



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



60ft<sup>3</sup> or 110ft<sup>3</sup> Hopper  
(C110H shown)

## FEATURES AND BENEFITS

### *Powder-Coated Finish*

Components have electrostatically applied paint that helps prevent fading and chalking.

### *Durable Motor*

Able to withstand indoor and outdoor temperatures.

### *Come-Apart-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.

### *Cone Section*

### *Insert Section*

Supports steep taper of cone to maximize efficiency.

### *Blower Housing*

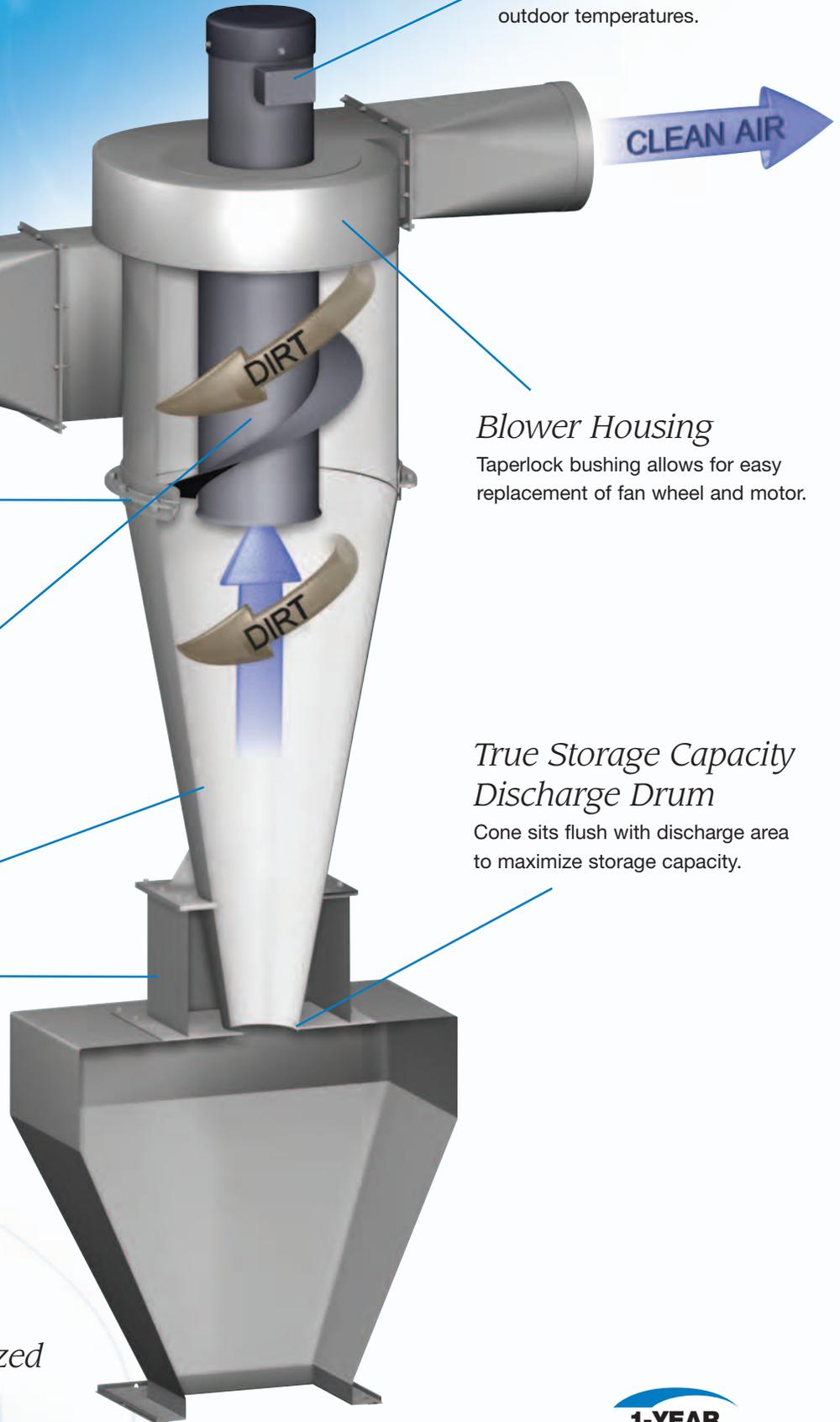
Taperlock bushing allows for easy replacement of fan wheel and motor.

### *True Storage Capacity Discharge Drum*

Cone sits flush with discharge area to maximize storage capacity.

### *Complete Unitized Assembly*

Unit ships assembled for immediate use.



**1-YEAR  
WARRANTY**



Clean air. It's what we do.™

## OPTIONS AND ACCESSORIES

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

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

## C SERIES CYCLONE CONFIGURATIONS

| Model   | CFM          | Motor (Hp) | Overall Height (inches)* |               |                |                                |                                  | Weight*** (lbs) | After-filter Options  |             |
|---------|--------------|------------|--------------------------|---------------|----------------|--------------------------------|----------------------------------|-----------------|-----------------------|-------------|
|         |              |            | Cyclone                  | 1D (One Drum) | 2D (Two Drums) | 60H (60ft <sup>3</sup> Hopper) | 110H (110ft <sup>3</sup> Hopper) |                 | 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  |

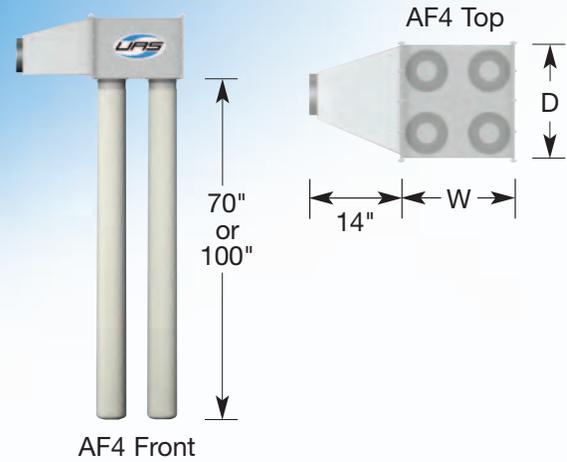
\*Heights include motor/blower where applicable.

\*\*C-44 Series unit heights include throw-out bins.

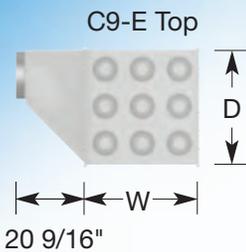
\*\*\*Weight does not include drum or hopper options.

## CHOOSING AN AFTER-FILTER

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



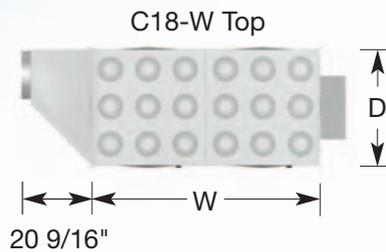
AF4 Front



20 9/16"



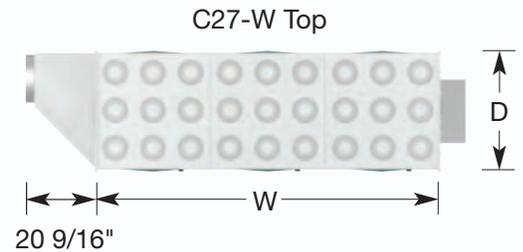
C9-E Front



20 9/16"



C18-W Front



20 9/16"



C27-W Front

## AF- VERSUS C-SERIES

For indoor Cyclone installations, UAS offers AF-Series after-filters. These after-filters bolt directly to the Cyclone blower outlet or are remotely mounted using interconnecting ductwork. AF-Series after-filters consist of up to 24 10-oz. polyester felt zippered filter tubes.

Another option is the C-Series after-filter, which can be installed inside or outside your facility. These units remotely connect to the Cyclone with ductwork 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 UAS Representative can help you determine which after-filter is the best fit for your specific application.



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## AF-SERIES AFTER-FILTERS

| Model | W    | D   | Height Interior | Filter Area (ft <sup>2</sup> ) | No. of Filters | Unit Weight (lbs) | Recommended Cyclone   |
|-------|------|-----|-----------------|--------------------------------|----------------|-------------------|-----------------------|
| AF192 | 30"  | 8"  | 72"             | 25                             | 1              | 20                | C-192                 |
| AF4   | 41"  | 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, C3625, C-3630 |
| AF18  | 105" | 40" | 119"            | 468                            | 18             | 366               | C-4440                |
| AF24  | 132" | 40" | 119"            | 624                            | 24             | 488               | C-4450                |

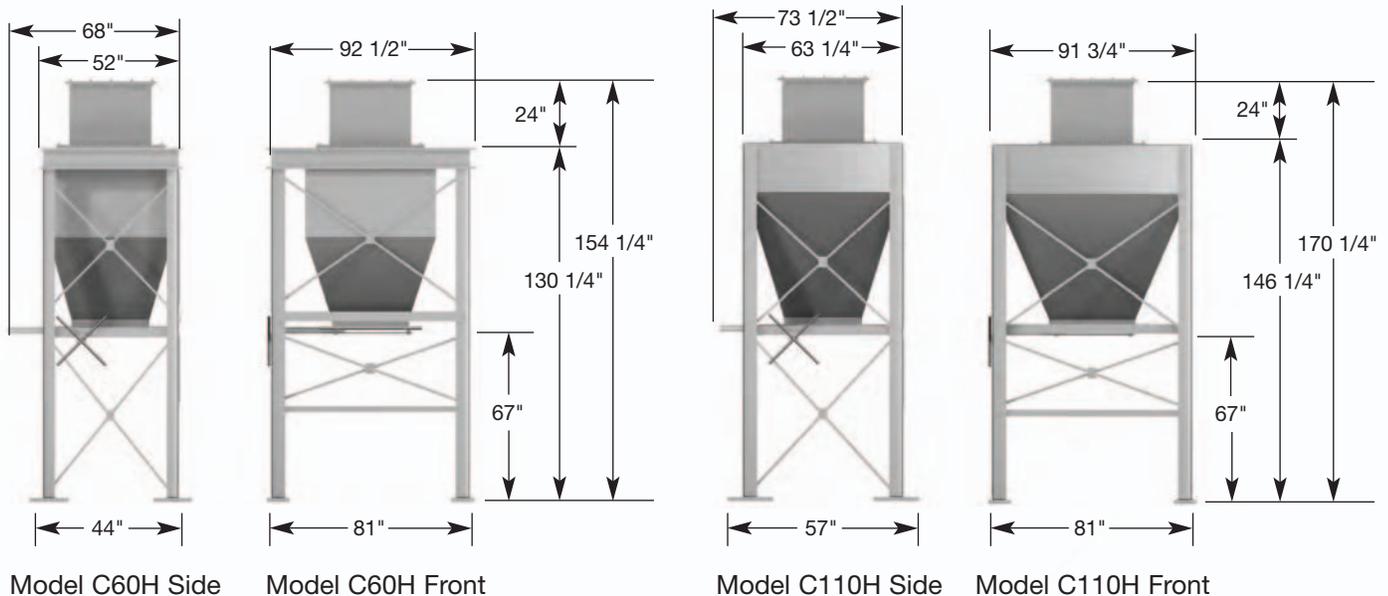
## C-SERIES AFTER-FILTERS

| Model       | W    | D   | Height Interior | Filter Area (ft <sup>2</sup> ) | No. of Filters | Unit Weight (lbs) | Recommended Cyclone                     |
|-------------|------|-----|-----------------|--------------------------------|----------------|-------------------|---|
| C9-E/C9-W   | 34"  | 34" | 156"            | 114                            | 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<br>C-3620, C-4440 |
| C27-E/C27-W | 102" | 34" | 156"            | 357                            | 27             | 1,750/1,805       | C-3625, C-3630, C-4450                  |

E indicates indoor applications only.

W indicates weather enclosure suitable for outdoor installation.

## STORAGE HOPPERS



## WHY CHOOSE UNITED AIR SPECIALISTS?

**A world-renowned reputation.** For more than 35 years, we've been the industry leader in air quality technology — a proven track record that speaks for itself.

**Commitment to quality products.** Measuring our quality against documented expectations, we practice continuous improvement methods to anticipate challenges and implement successful solutions.

**Unparalleled customer support.** As a customer-driven solutions provider, we earn credibility and establish successful relationships by exceeding expectations for professional service and attitude.

**Innovative technical leadership.** Always, we keep technology at the forefront — ensuring continuous product advancements through ongoing investments in design and manufacturing.

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