

# CPB-Series Central Dust Collector



Ø Reverse pulse jet, high pressure cleaning system with a 99.9% cleaning efficiency.

Ø Heavy duty fan with TEFC motor and safety equipment.

Ø Enclosed air manifold with tool-less solenoids are protected from the weather.

Ø Single compartment with heavy-duty corrugated walls and a tubular steel support structure.

Ø Caged safety ladder access to the housing top and blower deck.

Ø Access deck for the blower unit is complete with handrails and toe boards.

Ø Housing top is complete with handrails and toe boards.

Ø Hinged top doors allow for easy access to the filter media, while eliminating confined entry requirements.

Ø Side mounted 16" flanged inlet on the CPB-60. Side mounted 16" and top mounted 8" flanged inlet on the CPB-70.

Ø Baffle plate behind the inlet separating the incoming air from the filter media, resulting in the removal of more particulates prior to the filter media.

Ø Polyester, polypropylene bags are specifically treated for particle release.

Ø 50 degree sloped collection hopper with inspection door and pneumatic vibrator.

Ø 6" butterfly valve discharge gate with pneumatic actuator.

Ø Pre-plumbed air system includes solenoids, regulators and filters, mounted for easy access.

Ø Mini-helic gauge allows a visual reference of filter media condition is mounted at eye level for easy monitoring.

Ø Self-contained NEMA 4 control panel for the motor starter and disconnect.

Ø Adjustable digital control for air pulse duration and cycle times.

#### Automatic Rescue System:

Ø This system utilizes proprietary PLC software to alert the operator of a collection hopper overflow issue and begin running the optional automatic recycle system in an accelerated mode to clear out the overflow.

Ø A panel mounted red light which is activated by the hopper bin indicator.

Ø A panel mounted yellow light indicates the system is running in "Auto Rescue Mode"

Ø The optional recycle system will automatically return to the regular recycle mode 30 minutes after the red light clears.

#### Chiparoc, LLC is pleased to offer the following option(s):

Ø 7.1/2 H.P. automatic recycle system returns reclaimed material automatically to the silo.

Ø Collection shroud for the containment of dust while charging trucks.

Ø "EZ Connect" ducting packages for collection point, silos and batcher.



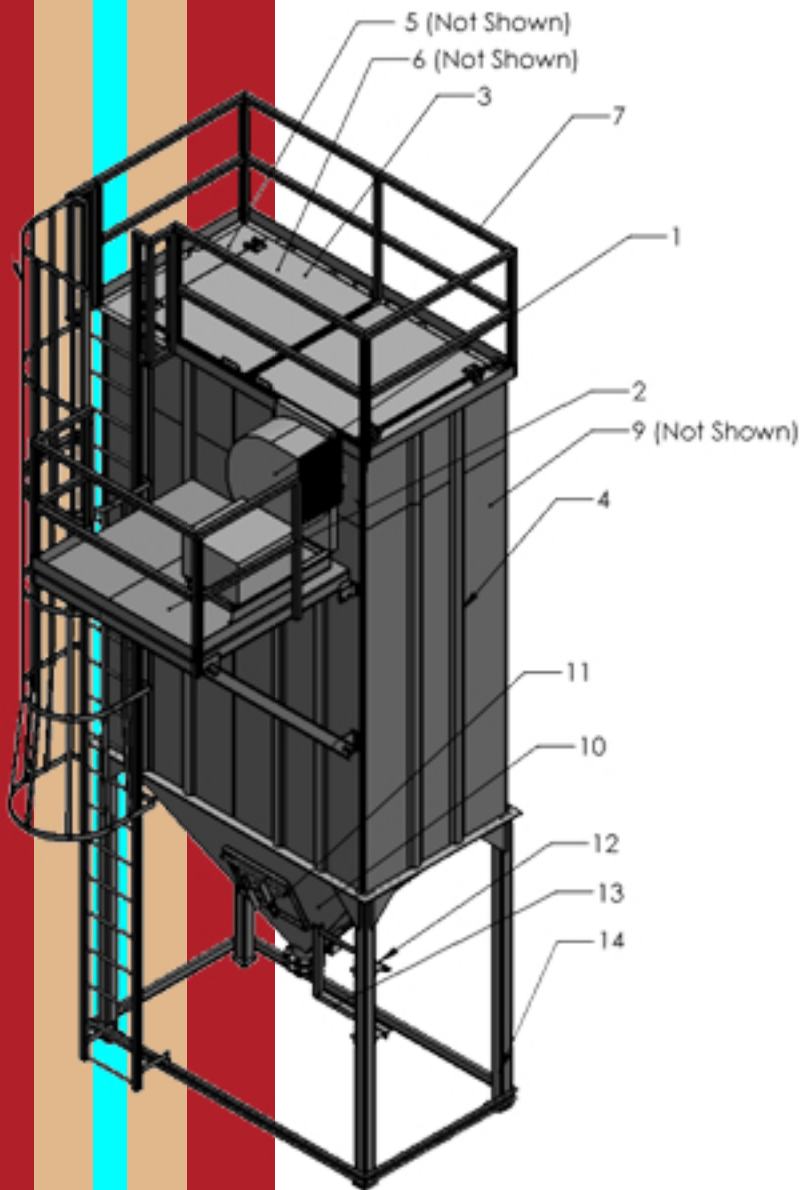
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# CPB -Series Dust Collector



- 1- Heavy Duty fan with motor and safety equipment
- 2- Safety Deck for servicing fan
- 3- Roof top doors for servicing bags and pulse systems from clean side reducing the need to enter confined space
- 4- Heavy-duty corrugated housing walls
- 5- Pulse jet bag cleaning system with air reservoir and tool-less solenoids
- 6- Snap in bags and cages
- 7- Top handrails with toe-boards
- 8- Caged safety ladder
- 9- High level flanged dust collection inlet and dust knock down wall
- 10- Dust Collection hopper with 50 degree plus angles on hopper walls for better removal of collected material
- 11- Hopper accessories include inspection door, air vibrator
- 12- Pre Plumbed air system including solenoids, regulators, and filters.
- 13- Controls mounted in NEMA 4 enclosure, including timer system for pulse jet cleaning system, 3 phase motor starter, main disconect, and start stop controls
- 14- Support legs with base plates

| Technical Data                  |                           |                           |                           |
|---------------------------------|---------------------------|---------------------------|---------------------------|
| Specifications                  | CPB-60                    | CPB-70                    | CPB-100                   |
| Total Filtration Area Sq./Ft    | 942                       | 1099                      | 1570                      |
| Number of Bags & Cages          | 60                        | 70                        | 100                       |
| Bag Diameter & Length           | 6" x 120"                 | 6" x 120"                 | 6" x 120"                 |
| Min. Design Efficiency          | 99.9%                     | 99.9%                     | 99.9%                     |
| Number of Solenoids             | 6                         | 7                         | 10                        |
| Normal Air Capacity (CFM)       | 5600                      | 6700                      | 9400                      |
| Air to Cloth Ratio (ACFM/Sq.)   | 5.94                      | 6.10                      | 5.99                      |
| Fan Horsepower                  | 15 HP - Direct Drive      | 15 HP - Belt Drive        | 20 HP - Belt Drive        |
| Static Pressure Drop(W.C)       | 8"                        | 8"                        | 8"                        |
| Outlet Area (Sq./Ft)            | 1.6                       | 2.4                       | 3.24                      |
| Outlet Velocity (Ft./Sec.)      | 58.33                     | 46.53                     | 48.35                     |
| Outlet Moisture Content (Ideal) | 0                         | 0                         | 0                         |
| Cleaning Mechanism              | Pulse Jet Air Using Tlmer | Pulse Jet Air Using Tlmer | Pulse Jet Air Using Tlmer |



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