

# Collect & Convey Dust Reclaim System

Cyclonaire's automated Collect and Convey (C&C) Reclaim System preserves air quality and conserves valuable material by capturing airborne product dust from silo filling operations and automatically returning it directly to source silos. Each unit combines an efficient Cyclonaire Pulse Jet Dust Collector with a rugged, gravity-fed CycloLok® Dense Phase Pneumatic Conveyor that operates on plant air and runs only when needed.

**Multiple Applications** – Works in concert with rail or truck unload systems and can be used to recycle dust from a variety of dry solids, including foodstuffs, corrosive chemicals and highly abrasive materials such as cement, slag and fly ash.

**Less Product Degradation** – Low conveying velocities cut product degradation and component wear.

**Safety and Convenience** – Easy servicing from ground level. Hinged door for easy filter access. Automatic onboard controls allow unattended operation and signal when service is needed.

**Easy Installation** – Flanged outlet and dust discharge ensure quick installation.

## Standard

Robust Carbon Steel Construction;  
Relay Timer Controls with High-Level  
Probe; Fan Selected to Fit; Collection  
Hopper; Cyclonaire Blue Paint;  
Dense Phase CycloLok Conveyor

## Standard Options

Air Receiver; Motor Starter; PLC with  
Audio Visual Alarms Available; Cyclonaire  
White Paint

## Custom Options

Stainless Steel Material Contact; NEMA  
7/9 Enclosure



## Boost Productivity and Efficiency



### Example Application

During silo loading, the exhaust fan draws particle-laden air from the silo into the dust collector, where reduced air velocity allows larger particles to fall into the collection hopper. Finer particles are drawn to the pleated filter cartridge. Timed reverse-air pulses discharge this dust into the hopper. When sufficient material fills the hopper, a high-level sensor automatically activates the CycloLok® Dense Phase Conveyor. Air entering the CycloLok moves the captured material through the convey system, returning it to the source silo or other destination. To minimize air supply usage, preset timers control the duration of the convey cycle. The entire process of cleaning the pleated filter cartridge and conveying reclaimed dust is controlled automatically by an on-board PLC, which triggers an alarm if service or maintenance is required.

Breathe easier with our Collect & Convey  
Dust Reclaim System.  
Contact [sales@cyclonaire.com](mailto:sales@cyclonaire.com).

**cyclonaire**  
pneumatic conveying solutions

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