



CO-GEN PLANT DIAGRAM

The following is diagram of where our Airsweep® material activation system, Dazic® zero speed switches, and Acousticlean® sonic horns can be used in a co-gen plant. If you're not running a co-gen plant, send us your process layout and we can customize a diagram for you.

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1. COAL SILOS

Bituminous Coal is crushed prior to being fed into the combustors. It is mixed with limestone in the combustion zone of the boiler.

2. COMBUSTION ZONE

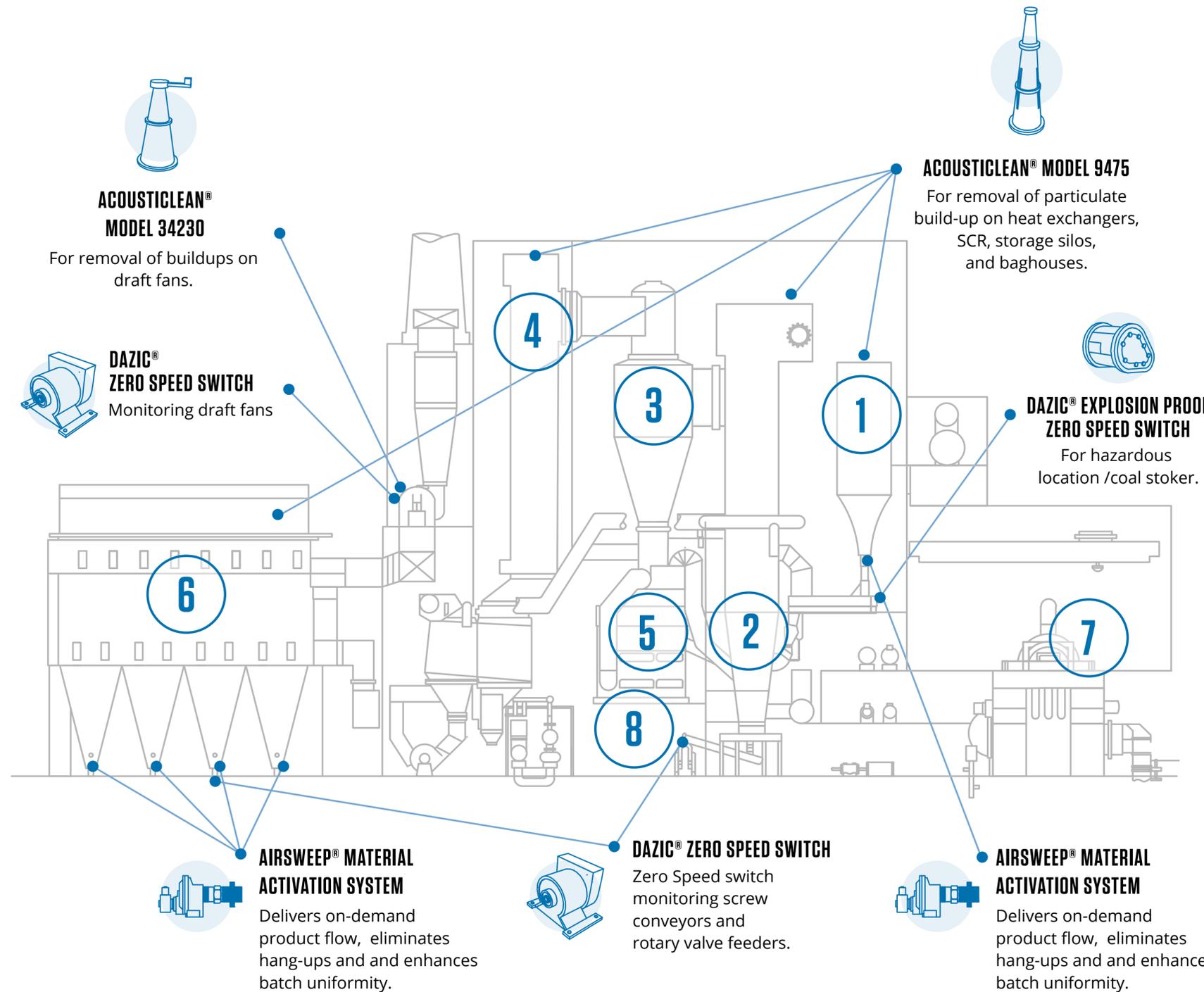
A strong upward flow of air holds the fuel and limestone particles in suspension in the combustion zone. As the coal burns, sulfur dioxide is absorbed by the limestone and the lighter particles move upward in the Combustion Chamber.

3. HOT CYCLONE

Ash and hot gases at 1560°F flow out the top of the combustor to the hot cyclone. The gas exits the cyclone to the convective pass. Partially burned fuel and ash pass from the cyclone back to the combustor for recombustion. Thus the combustor achieves a high degree of fuel efficiency.

4. CONVECTIVE PASS

Hot exhaust gas from the combustor pass over banks of water and steam piping helping to produce the steam for the turbine.



ACOUSTICLEAN® MODEL 34230

For removal of buildups on draft fans.

DAZIC® ZERO SPEED SWITCH

Monitoring draft fans

ACOUSTICLEAN® MODEL 9475

For removal of particulate build-up on heat exchangers, SCR, storage silos, and baghouses.

DAZIC® EXPLOSION PROOF ZERO SPEED SWITCH

For hazardous location /coal stoker.

AIRSWEEP® MATERIAL ACTIVATION SYSTEM

Delivers on-demand product flow, eliminates hang-ups and enhances batch uniformity.

DAZIC® ZERO SPEED SWITCH

Zero Speed switch monitoring screw conveyors and rotary valve feeders.

AIRSWEEP® MATERIAL ACTIVATION SYSTEM

Delivers on-demand product flow, eliminates hang-ups and enhances batch uniformity.

5. FLUID BED HEAT EXCHANGER

Ash taken from the cyclones heat the final reheat and superheat steam then returns to the combustor. This is the steam that powers the turbine which spins the generator to produce electricity.

6. FABRIC - FILTERS

After giving up most of its heat, the exhaust gas from the convective pass is routed through ducts to fabric - filter baghouses. These act as huge vacuum cleaners and collect almost all the fine particulate for ash disposal.

7. TURBINE GENERATOR

A single shaft, 3600 rpm, condensing turbine. Main steam to turbine is 1,345,000 lb/HR at 1,890 psig, 1005°F, and reheat to 1005°F.

8. ASH DISPOSAL

Ash is currently sent to a mine site via fully contained rail cars or trucks, where it is beneficially used to reclaim these sites.

OUR PRODUCTS ARE USED BY MORE THAN HALF OF S&P 500 COMPANIES

Contact us for a custom engineered solution

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WARRANTIES

Control Concepts, Inc. provides a warranty on the following product units.

 	 	 
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TESTIMONIALS

AirSweep installation was easy, and the units have saved the company a lot of man hours. My experience totally exceeded my expectations – a 10 out of 10!

STANLEY RHEA

HEAD OF MAINTENANCE DEPARTMENT, FLAX4LIFE

The AirSweep installation was pretty straightforward and I would absolutely recommend it. In fact, we are looking into expanding to use the system in other parts of our plant.

JOHN PAPPENHEIM

MAINTENANCE MANAGER, BUNGE MILLING

WE WORK WITH THESE MATERIALS & INDUSTRIES



FOOD/AGRICULTURE

Animal feeds
 Brewers grain
 Cocoa
 Coffee
 Corn
 Flour
 Grains
 Hops
 Salt
 Soybeans
 Spices
 Starches
 Sugar
 and more...



MINING

Aluminum
 Bentonite
 Coal
 Copper
 Diatomaceous Earth
 Gypsum
 Iron ore
 Limestone
 Magnetite
 Phosphate
 Shale
 Soda Ash
 and more...



CHEMICALS

Activated carbon
 Adipic acid
 Aluminum
 chloride
 Boric acid
 Chlorine
 Herbicide
 Hydrated lime
 Iron Oxide
 Polyacrylamide
 Titanium dioxide
 Zinc
 and more...



OTHER

Acetate
 Cement
 Chalk
 Cork
 Detergent
 Fertilizer
 Fly ash
 Pharmaceuticals
 Plastics
 Polymers
 Resins sludge
 Wax flakes
 Wood chips
 and more...

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