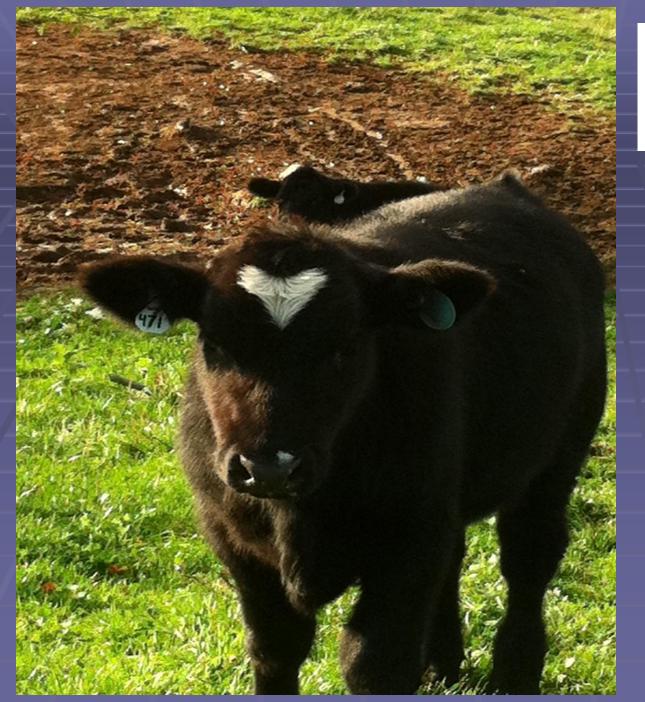
Dust Extraction Technology®



Beckley, WV 304-253-0777





The Safe Handling of Fugitive Combustible Dust is the **HEART** of our Business

<u>Dust Management Techniques</u>

It is an Accepted Fact that there are Three main methods to control fugitive dust

- Collection
- Suppression
- Containment

New Technology

Engart Provides a Fourth Method

- Collection
- Suppression
- Containment
- Extraction

Typical Reasons for Engart Upgrade

- Concerned with Challenges of Combustible Dust and the Current Status of Bag House Collectors
- Lower Cost and Easier Maintenance
- Desire New Technology
- Fast Track Conversion

Experience and Concerns with Bag-House "DRY" Collectors

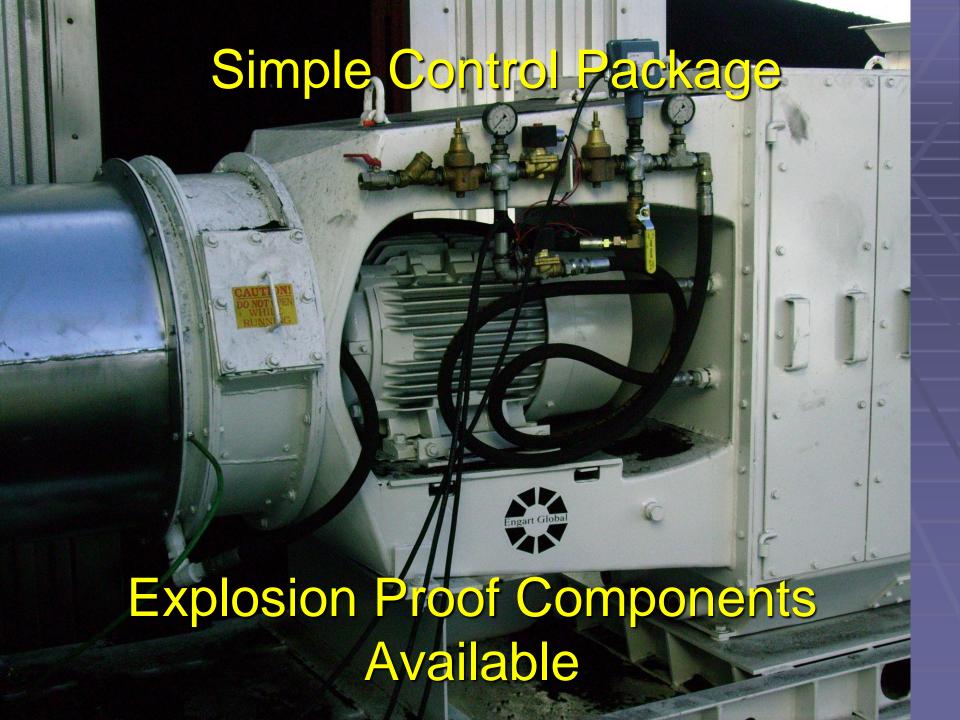
- Fire and Explosion Risk
- Labor Intensive and Difficult to Maintain.
- Re-Handling of Bag-House Collected Dust Caused Additional Fugitive Dust Problems
- Costly Bags
- Confined Entry Permit
- Costly Means to Discharge Collected Dust

UPGRADE TO EXTRACTION TECHNOLOGY

- SAFER Way to Handle Combustible Dust
- Eliminates Need for Bag Replacement
- Simpler Maintenance Procedures
- Eliminates Re-Handling of Fugitive Dust
- Compact Design Permits Installation in Close Quarters or Inside Building
- High Dust Collection Efficiency
- Fast Track Installation









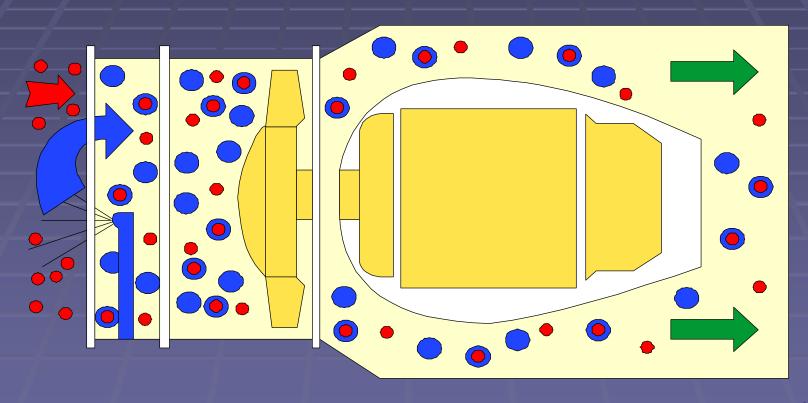


Dust Capture Principals

- Dust Particles and Displaced Air are Moved into the Engart by its Integrated Impeller.
- The Particles are Mixed with Finely Atomized Water Droplets During the Pressure Ramp Through the Fan Inlet
- Dirty Air, Dust Particles and Potentially Flammable Gases Move Past the Motor Compartment.
- Water Entrained Dust Particles are Removed From the Air Stream and Out the Sump to Local Drain.

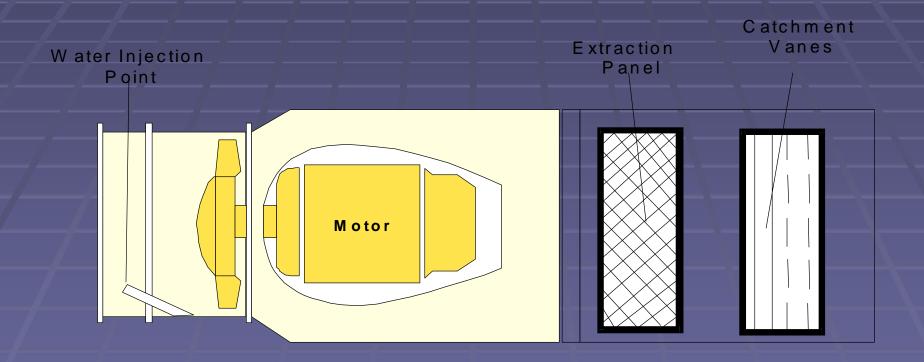


Dust Captured in Water Droplets

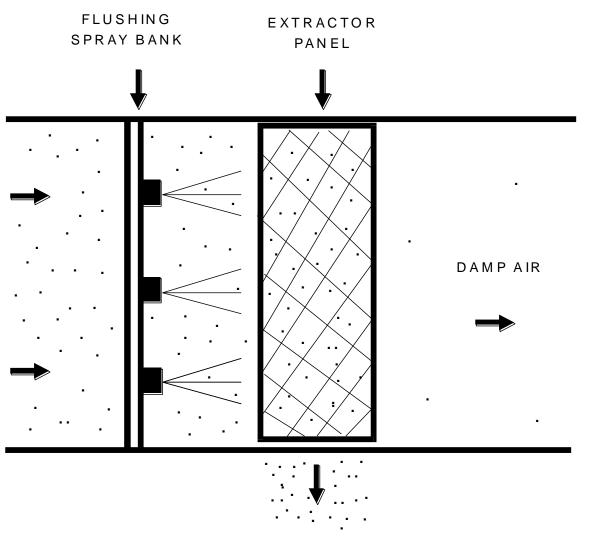




Engart Components





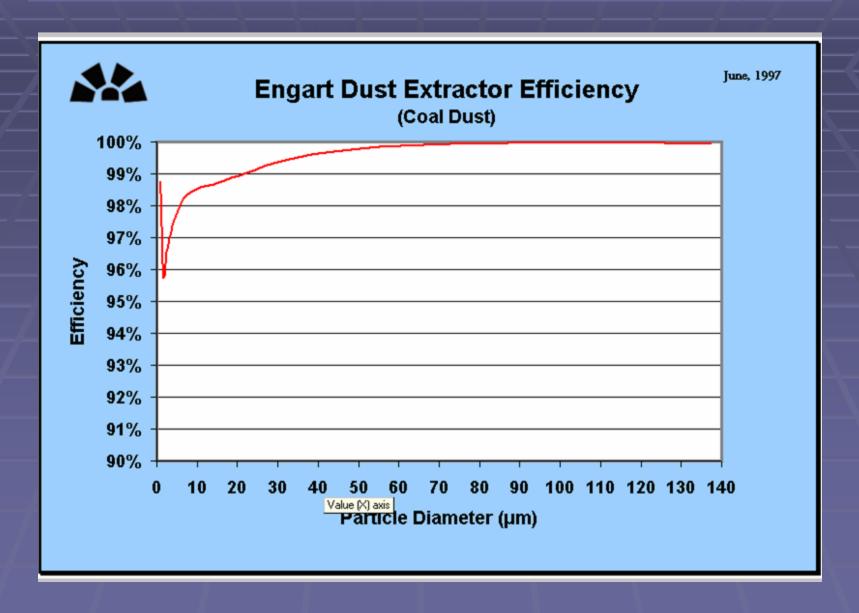


DUST LADEN WATER DRAINS FROM EXTRACTOR
PANEL TO THE RECIRCULATING TANK OR
TO CONVEYOR BELT





Dust Extraction Efficiency







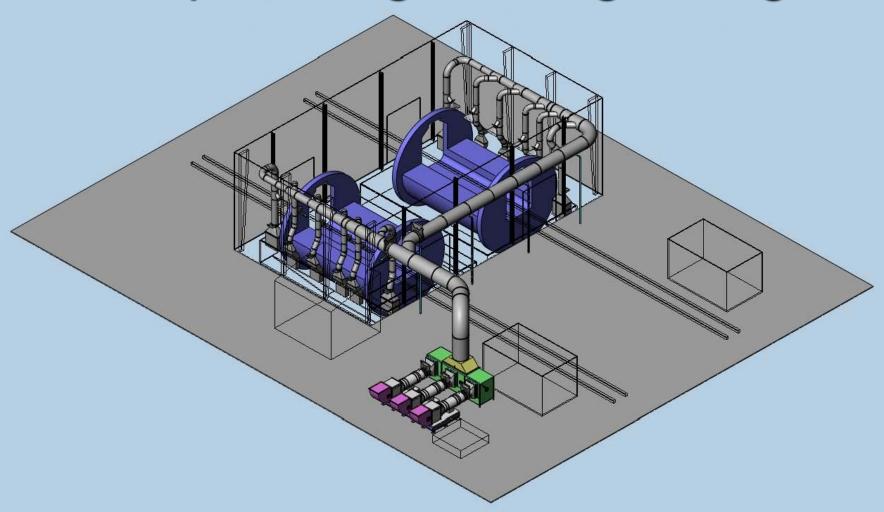




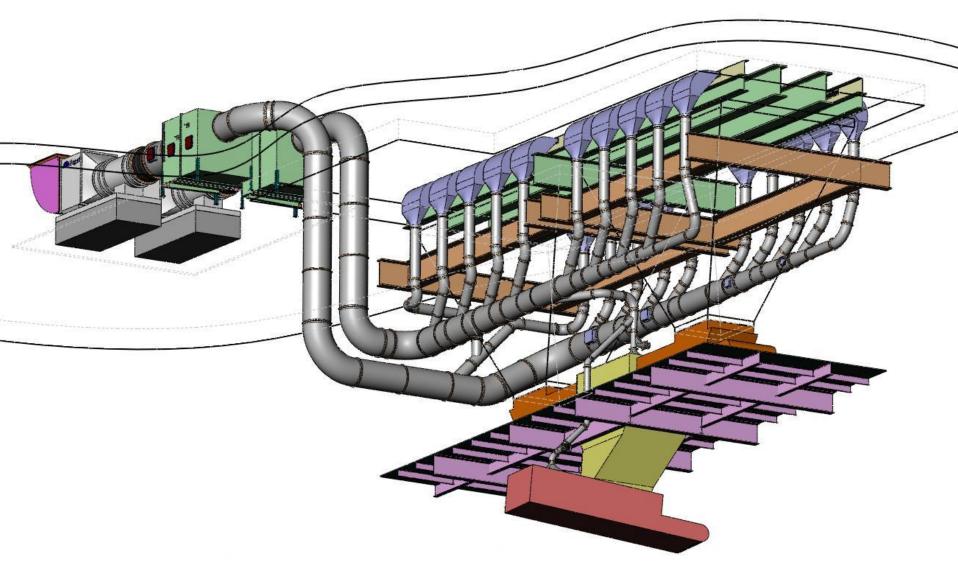




Complex Engineering Design







3-D Design Capabilities



















Cold Weather Protection Package

 Heat Trace Supply Water Air Purge Solenoid In-Line Water Heater Heat Sheets and Insulated Blankets



Engart Extraction Technology Advantages

- High gas cleaning efficiency.
- Relatively low water usage
- Clean Air Discharge Permits Inside Exhausting To Save Heat Loss from Plant.
- Simple maintenance.
- Eliminates explosion risk.
- Compact integrated dust management units.
- Various purchase options.
- Bifurcated design enhanced safety.
- Consistent air volume.
- Flexible engineering approach.
- Engineering service and support team.

ODOR AREAS

- LANDFILL SITES
- COMPOSTING PLANTS
- SEWAGE WORKS
- QUARRIES
- **FOUNDRIES**
- WASTE TRANSFER STATIONS
- MATERIAL RECYCLING FACILITIES
- FOOD INDUSTRY
- RENDERING PLANTS





A Revolutionary Solution to Odor Control and Dust Suppression





Rotary

The Probe Atomizer device uses a rotating metal gauze cylinder to create droplets of uniform size (monodispersed). The Atomizer works by injecting water into the cylinder head spinning at 12,000 rpm, dividing the liquid into an incredible 900 billion droplets per gallon. It gives a linear spray of between 60 and 90 feet and is available as a non-oscillating (static mount) or with the oscillating feature (180-degree sweep)

Mobile

If you have an odor or dust issue on site (e.g. Landfill) where power or water are not readily available, the Mobile unit can solve your problem. The Mobile unit can be quickly towed to the required location, is fully self-sufficient with its own water and power supply and can handle any terrain.

Floor Mounted

The Floor Mounted unit is an 8 feet high, floor mounted, standalone unit. It is secured to either a concrete base or similar fixed-level surface using bolts or clamps. The unit can be located internally or externally for odor & dust control.

Wall Mounted

The Wall Mounted unit is secured to walls using either bolts or clamps.



No Blockages and Droplets at an Optimum uniform size to suppress Odor and Dust even in the most challenging environments.

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