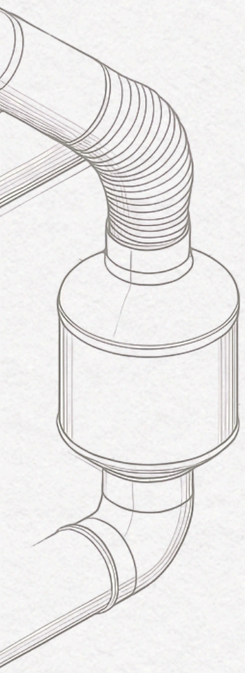
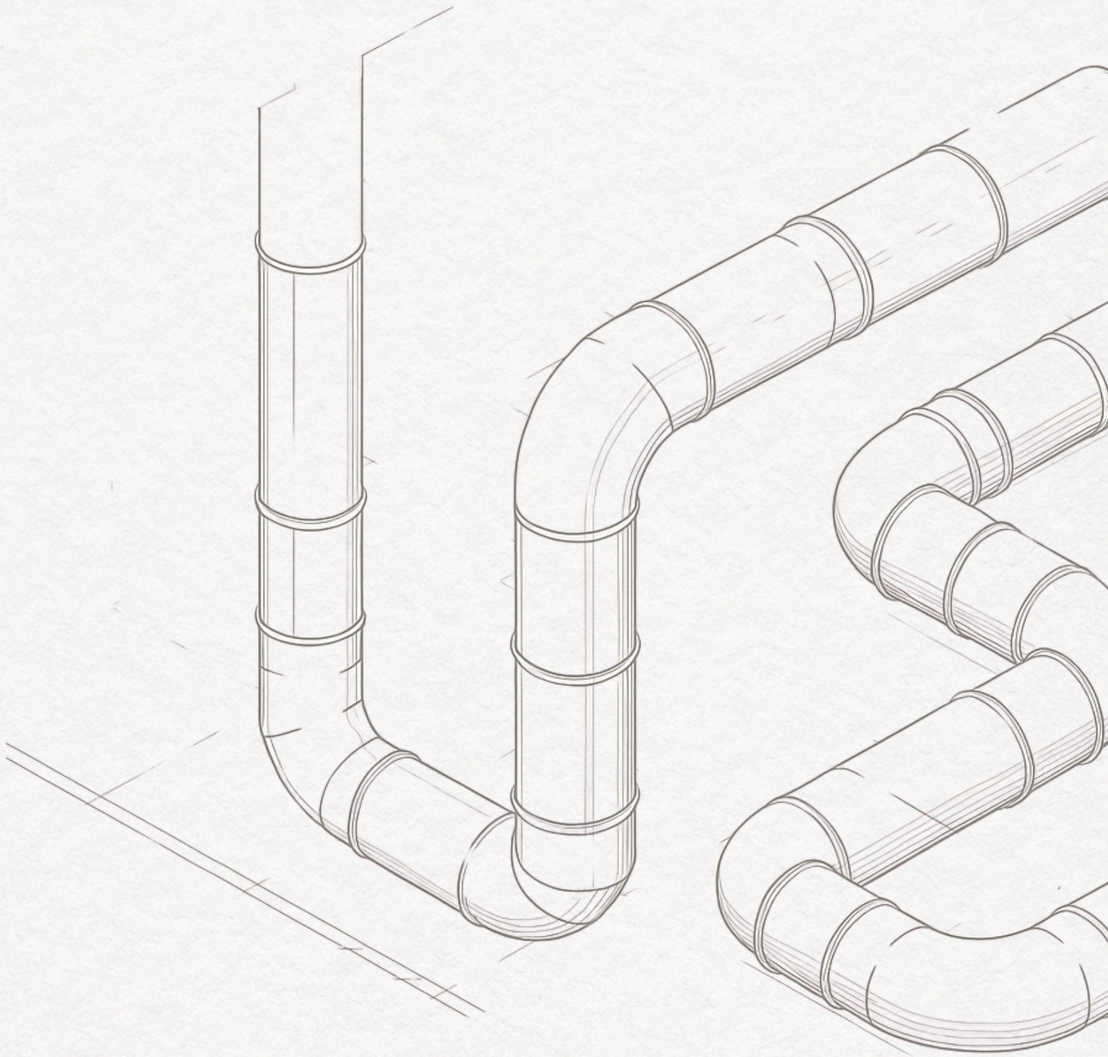
ECOINDE



ECO INDUSTRY **DESIGN**

PROJECT PORTFOLIO



www.ecoinde.com

ECOINDE

ABOUT **US**

MISSION

To be a leading company in Mexico in the manufacturing and installation of dust collection systems, while providing innovative solutions for their implementation and maintenance.

VISION

To be an efficient and competitive company, recognized as a leader in Mexico in the dust collection systems sector, committed to excellence in all our processes and customer service.

VALUES

- Commitment
- Excellence
- Social Responsibility
- Transparency

SLOGAN

"Partnering with you to improve air quality in your industrial processes"

Our **Clientes**

ASSA ABLOY

MYCOM

Firmenich
for good, naturally

SAINT-GOBAIN

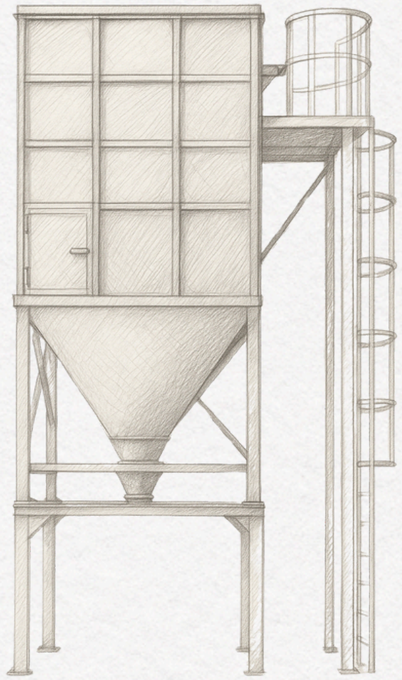
GOODYEAR

AXALTA

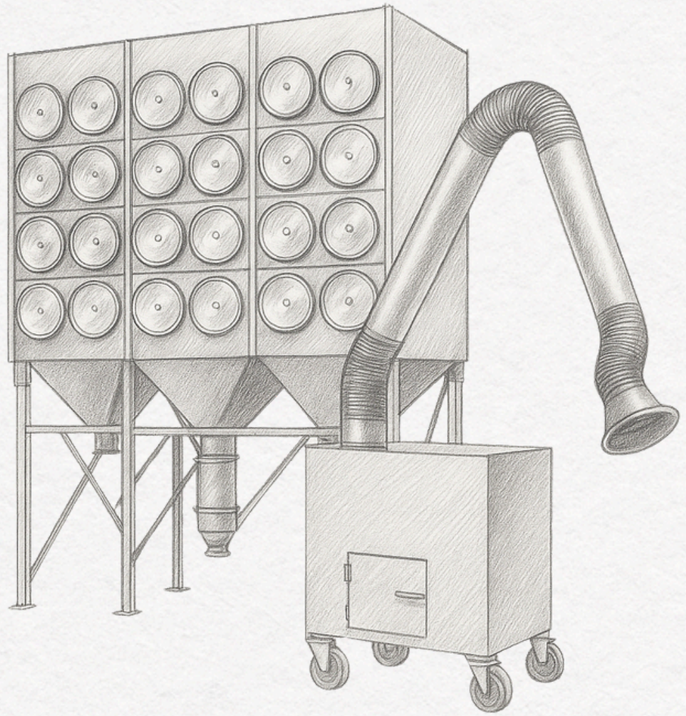
Unilever

ECOINDE

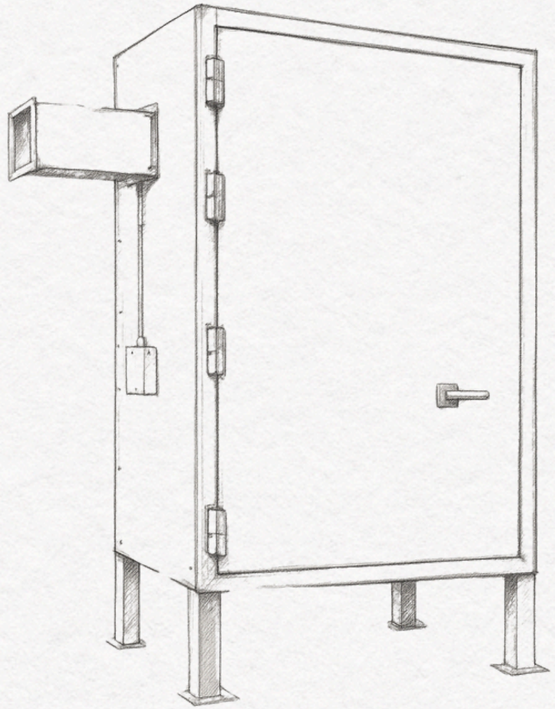
Types of **Collectors**



Dust

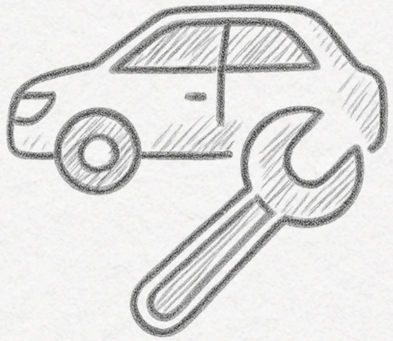


Fumes



Mists

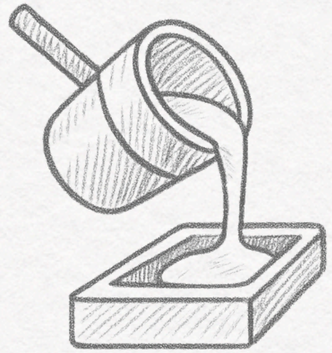
Our **Industries**



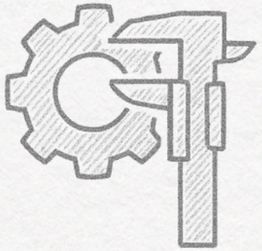
Automotive

Chemical

Foundry



Food & Beverage

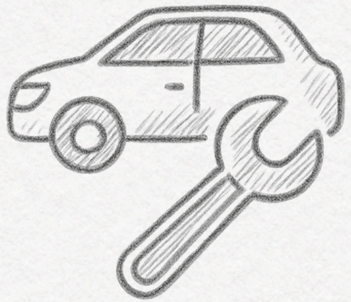


Metalworking

Food & Beverage

Addressing Combustible Dust Collection Issues in:

- Grain milling (flour dust)
- Sugar and salt crushing (fine dust)
- Spice processing (suspended dust)
- Dry ingredient mixing (airborne dust)
- Flour and starch sifting (fine dust)
- Fruit and vegetable dehydration (organic dust)
- Powdered product packaging (suspended dust)

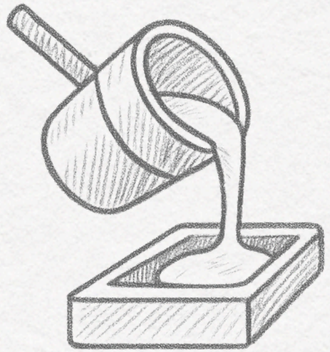


Automotive

Capture, Transport, and Filtration of Contaminants in Processes Such As:

- Laser and plasma cutting (metal fume emissions)
- Turning and milling (generation of lubricant mist)
- Grinding and polishing (metal dust emissions)
- MIG/MAG welding (metal fumes and gases)
- TIG welding (aluminum and stainless steel fumes)
- Resistance welding (fumes and fine particles)
- Aluminum and plastic injection molding (release agent mist)
- Powder coating (suspended dust)
- Liquid coatings (solvent mist)
- Anticorrosive treatments (chemical fumes)

Foundry



The Most Common Filtration Applications Include:

- Material preparation
- Metallic load pretreatment
- Metal melting
- Degassing
- Custom alloy production
- Molding
- Mold casting
- Demolding
- Shot blasting and cleaning
- Grinding

Metalworking

We Offer Solutions for Processes Such As:

- Welding and metal cutting (metal dust and fumes)
- Machining with cutting fluids (oil, coolant, and water mist)
- Heat treatments (combustion fumes and fine dust particles)
- Coatings and painting (VOCs, fine dust)
- Forging and stamping (oil mist and fumes)
- Polishing and sanding (coarse and fine dust)

ECOINDE

Chemical

Airborne Contaminant Source Control in Applications Such As:

- Transport and storage of solids (chemical dust)
- Mixing and grinding of reagents (fine dust)
- Particle sieving and classification (suspended dust)
- Filtration and centrifugation (dust and aerosols)
- Application of chemical coatings (solvent mist)
- Incineration of chemical waste (toxic fumes)

WHAT WE BRING **TO YOUR INDUSTRY?**

At **Eco Industry Design**, we specialize in turnkey projects for the capture and filtration of dust, fumes, and mist generated in industrial processes. Our team of engineers designs custom-tailored solutions, always prioritizing the optimal cost-benefit ratio for each operation.

We are authorized distributors of Dyna Flow Manifolds and other well-known brands in the sector, enabling us to integrate high-quality components into every system.

Our facility is equipped with advanced industrial infrastructure, including CNC laser cutting, rolling machines, bending machines, and a paint booth, allowing us to internally manufacture the elements that compose our solutions: ducts, hoppers, hoods, joints, and more.

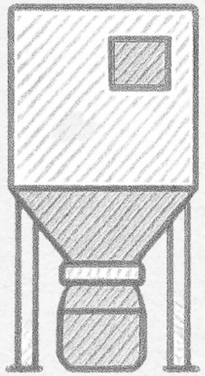
Our certified team of installers, with extensive field experience, ensures the efficient and safe execution of every project.

As a Mexican company committed to the industrial sector, we deliver technically sound, reliable solutions aligned with the specific needs of each client.

In compliance with confidentiality agreements, we do not share photographs or videos of internal processes.

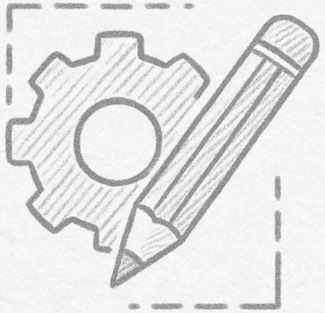
ECOINDE

HOW CAN WE **SUPPORT YOU?**



Dust, Fume, and Mist Collection Systems

- Fixed dust collectors (cartridge, bag, or portable types)
- Cyclones for dust collection
- Enclosures for painting processes

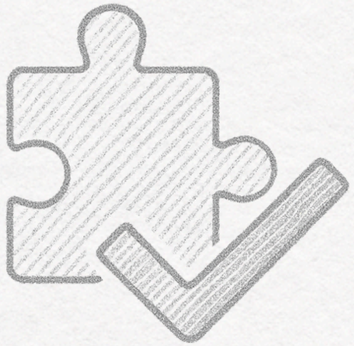


Component Design and Engineering

- Design and manufacturing of capture hoods
- Design and manufacturing of transport ductwork

Industrial Protection and Safety Systems

- Explosion protection systems
- Fire suppression systems for dust collectors
- Dust cloud management in process areas



We integrate all these components into turnkey solutions, designed by our engineering team with a focus on regulatory compliance, energy efficiency, and operational safety.

ECOINDE

FEATURED **PROJECT**

Automotive Industry

📌 **Project Name:**
Dust Extraction in Mixing and Ventilation Areas

🔧 **Technical Details:**

- **Airflow Capacity:** 12,000 CFM
- **Filtration System:** Cartridge technology with self-cleaning system and air handling module for particle reduction
- **Control Panel:** Integrated variable frequency drive
- **Design Standards:** In accordance with ACGIH recommendations
- **Stack:** Manufactured in compliance with current regulations
- **Ductwork:** 14 and 16 gauge galvanized steel, welded
- **Flanges:** 10 gauge A-36 steel, painted, with low-density PVC foam gaskets

ECOINDE

FEATURED **PROJECT**

Automotive Industry

📌 **Project Name:**
Dust Extraction in Grinding Machines

🔧 **Technical Details:**

- **Airflow Capacity:** 3,000 CFM
- **Filtration System:** Cartridge technology with self-cleaning system and air handling module for particle reduction
- **Protection System:** Explosion vent, cyclones, backdraft damper, fire detector, and integrated suppression system within the collector
- **Control Panel:** Integrated variable frequency drive
- **Design Standards:** In accordance with ACGIH recommendations
- **Stack:** Fabricated per regulation, with vertical design as requested by the client
- **Ductwork:** 16 gauge A-36 black steel, welded
- **Flanges:** 10 gauge A-36 black steel, painted, with low-density PVC foam gaskets

ECOINDE

FEATURED **PROJECT**

Automotive Industry

📌 **Project Name:**
Dust Extraction and Filtration of Mixtures

🔧 **Technical Details:**

- **Airflow Capacity:** 4,000 CFM
- **Filtration System:** Cartridge technology with self-cleaning system
- **Design Standards:** In accordance with ACGIH recommendations
- **Stack:** Under standard
- **Ductwork:** 16 gauge galvanized steel, welded
- **Flanges:** Union flanges made of 10 gauge painted black A-36 steel sheet with low-density PVC foam seals

FEATURED **PROJECT**

Chemical Industry

📌 **Project Name:**
Volatile Organic Compounds (VOC) Extraction

🔧 **Technical Details:**

- **Airflow Capacity:** 4,000 CFM
- **Filtration System:** Not applicable, due to the nature of the extracted compounds
- **Design Standards:** In accordance with ACGIH recommendations
- **Stack:** Manufactured in compliance with current regulations
- **Ductwork:** 18 gauge galvanized steel, welded
- **Flanges:** 10 gauge A-36 steel, painted, with low-density PVC foam gaskets

ECOINDE

FEATURED **PROJECT**

Chemical Industry

📌 **Project Name:**
Volatile Organic Compounds (VOC) Extraction

🔧 **Technical Details:**

- **Airflow Capacity:** 12,000 CFM
- **Filtration System:** Activated carbon bank with coconut beads
- **Design Standards:** In accordance with ACGIH recommendations
- **Stack:** Not applicable because it is VOCs
- **Ductwork:** Made of 16 gauge A-36 galvanized steel sheet, welded
- **Flanges:** Union flanges made of 10 gauge A-36 black steel sheet painted with low-density PVC foam seals

ECOINDE

FEATURED **PROJECT**

Foundry Industry

📌 **Project Name:**
Dust and Fume Extraction in Molding Process

🔧 **Technical Details:**

- **Airflow Capacity:** 22,000 CFM
- **Filtration System:** Thermally insulated collector, high-temperature bag filter technology, and self-cleaning system based on pressure differential between chambers
- **Protection System:** Gate for combustion gas release and condensation prevention
- **Design Standards:** In accordance with ACGIH recommendations
- **Stack:** Manufactured per regulations, with structural extension as requested by the client
- **Ductwork:** 12 and 14 gauge A-36 black steel, welded
- **Flanges:** 1/4” A-36 steel plate, painted, with low-density PVC foam gaskets

ECOINDE