

HIGH VACUUM - WET MIX DUST COLLECTOR

Eliminate hazardous dust and fumes with a Eurovac system



How the unit works:

Contaminated air is drawn into the unit through a tapered scrubber and forced down through a venturi, deep into the water, where the air is released. The water acts as a separator, and many of the dust particles fall to the bottom of the unit immediately. Those particles that manage to escape this first stage of cleansing, are forced through thick curtains of water, and are deflected by a series of baffles into the water turbulence, separating the remaining dust from the air. The airflow creates a circulation in the water that simultaneously removes dust particles from the water and prevents stagnation of the water. The moist clean air is drawn through the unit by an internally fitted fan, passes through the mist eliminators, where the moisture is removed from the clean air. The clean air can be returned to the workplace. The dust which has settled to the bottom of the unit will be removed through the sludge drain valves, rake out, hopper or drag bar conveyor. Standard units are available in capacities ranging from 150 to 1,500 C.F.M.

Applications:

- Processing and finishing of aluminum,
- Manganese titanium,
- Stainless steel
- Plasma cutting and plasma hot metal spraying
- Laser cutting
- Melting furnaces
- Removing dust and odor from green sand mold cooling and shake out operations
- Removing dust from shot blast operations
- Grinding and buffing etc.

Features Include:

- Constant high efficiency and air flow
- Minimum operation costs
- Low Maintenance
- Stainless steel or galvanized construction
- Easy access for inspection and routine cleaning
- Fully automatic water level control system
- "Static" Unit (no moving parts)
- No water pump required

EUROVAC II - WET-MIX DUST COLLECTOR

Eliminate hazardous dust with a Eurovac system and source capture sanding tools

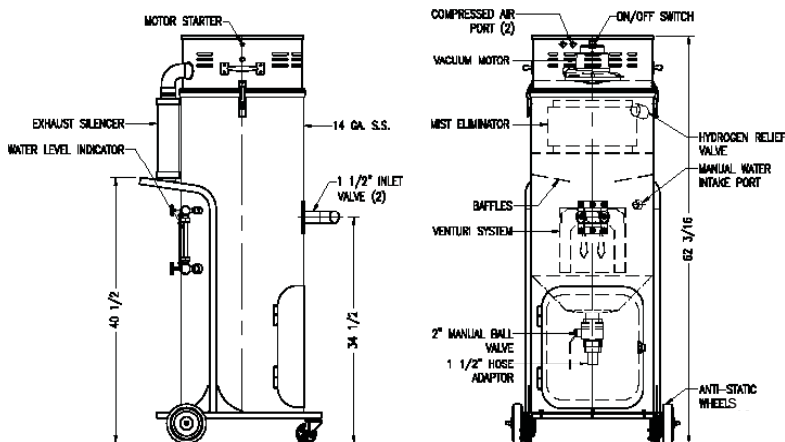


How the Unit Works:

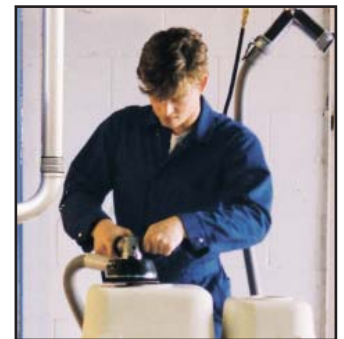
Explosive dust is drawn into the unit through and forced down through a venturi, deep into the water. The water acts as a separator, and the majority of the dust particles fall to the bottom of the unit immediately. Those particles that manage to escape this first stage of cleaning, are forced through thick curtains of water, and are deflected by a series of baffles into the water turbulence, separating the remaining dust from the air. The moist clean air is drawn through the unit by an internally fitted blower, passes through a stainless steel mist eliminator, where the moisture is removed from the clean air. The dust which has settled to the bottom of the unit is removed through the sludge drain valve.

Features:

- Powerful 13.8 amp motor with sealed bearings built to handle moist air from wet collector. 1560 watt pump produces 145" of water column; 140 free flow CFM. *Has enough power for 2 technicians to sand with orbital sanders at the same time.*
- Quiet operation particularly for fine dust... motor housing is insulated and baffled for sound.
- On/off feature...motor is turned on and off automatically by air switches when pneumatic tools are activated. This increases the life of the motor and reduces energy costs of running the motor.
- Includes a plastic sight glass to determine when water should be added.
- Stainless steel mist eliminator picks up 99.9% of dust to 10 microns.
- 2" ball valve & hose at the bottom of the separator for removing sludge.



Automotive & Industrial Explosive Metals Applications



ALUMINUM PANEL MANUFACTURER ELIMINATES EXPLOSIVE DUST WITH HIGH VACUUM SOURCE CAPTURE WET COLLECTOR

A manufacturer of aluminum panels contacted Eurovac with a problem due to airborne aluminum dust. In the manufacturing process the panels are brought to a workstation where the employees sand the peices with a 5" orbital sander to ensure a proper finish. This produces an aluminum dust which is emitted into the workspace creating a hazard to the employees heath due to the dust in the breathing space and the explosive nature of airborne aluminum dust. See below for a bullet point description of how the issue was solved.



Source Capture Vacuum System:
Aluminum Dust

CHALLENGE:

Design a system for source capture dust extraction for aluminum dust

SOLUTION:

Eurovac I - 30-316CW High Vacuum Wet Scrubber

IMPACT:

Eliminated aluminum sanding dust from the breathing space of the workers

Eliminated any possible explosion due to aluminum dust

CHALLENGE

- Eliminate air bourne aluminum dust from sanding operation.
- Aluminum dust is explosive and therefore needs to be captured with the proper equipment to dissipate any possibility of explosion.

SOLUTION

- Eurovac converted the 5" sanders to vacuum ready tools.
- A central high vacuum wet scrubber (Model EI - 30-316C) was installed along with vacuum drops at each workers workbench.

IMPACT

- After the system was installed the dust was reduced to virtually nothing.
- The aluminum dust was captured at the source through the anti-static hose and galvanized tubing back to the central wet collector.
- All explosive issues were eliminated as the dust was mixed with water in the central system.

Specialists in Dust and Fume Extraction Systems

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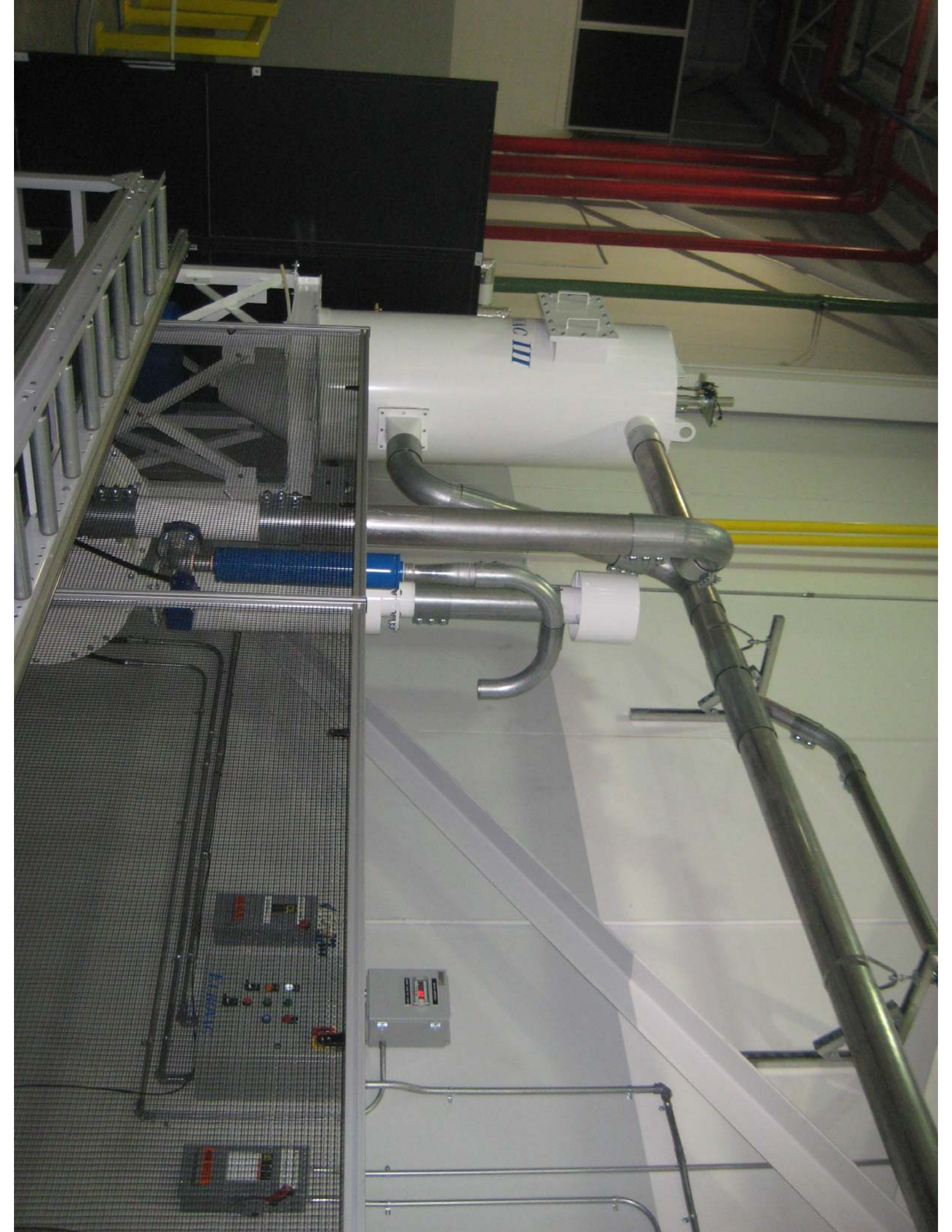
CAUTION
Hazardous
Materials
Present













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