

# HIGH VACUUM WET SCRUBBER

*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