



## Engart Dust Extractors

*“Mining, Civil, and Industrial Air Cleaning Units”*

### Portable Underground Air Cleaning Units



### Plant Dust Extraction Systems



### Equipment Mounted Dust Extractors



*MSHA Approved for Underground Coal Mines*

### ENGART SPECIFICATIONS:

Type 36	Type 30	Type 27	Type 24 & 24P	Type 18
CFM <b>36,000</b>	CFM <b>20,250</b>	CFM <b>17,000</b>	CFM <b>13,000 – 15,000</b>	CFM <b>6,000</b>
Motor 200 hp	Motor 75 hp	Motor 75 hp	Motor 50 hp w/c MSHA & 60 hp U/L A/C	Motor 20 hp
Length 118.3 inches	Length 82.6 inches	Length 77.5 inches	Length 77.5 inches	Length 57.2 inches
Width 74.0 inches	Width 39.4 inches	Width 37.4 inches	Width 37.5 inches	Width 30.5 inches
Height 80.3 inches	Height 51.0 inches	Height 43.0 inches	Height 43.0 inches	Height 25.5 inches
Water Use: 11 gpm	Water Use: 8.2 gpm	Water Use: 7.9 gpm	Water Use: 7 gpm	Water Use: 6 gpm
Weight: ± 6,500 lbs	Weight: ± 5,000 lbs	Weight: ± 3,900 lbs	Weight: ± 3,400 lbs	Weight: ± 1,350 lbs
				MSHA APPROVED

### APPLICATIONS:

- Underground Coal Mining
- Underground Hard Rock Mining
- Face Ventilation
- Underground Coal Mining
- Flue Gas Dust Extraction
- Plant Dust Extraction
- Tunneling

### ADVANTAGES:

- Compact High Volume Design
- Can Handle Hot or Explosive Gases
- Can Handle Wetted Dust Particles
- Low Maintenance
- Consistent Performance
- High Dust Loading Capabilities
- Flexible Engineering Approach

## Rotary Atomiser Technical Information Sheet

### Description:

The Probe Rotary Atomizer Device uses a rotating gauge cylinder to create droplets of uniform size..(mono-dispersed)

The Rotary Atomizer works by injecting water into the cylinder head spinning at 12,000 RPM dividing the liquid into an incredible 952 billion droplets per gallon.

Independent Research on the Probe Rotary Atomizer conducted by Northumbria University has shown that the droplets created by Probe Rotary Atomizers combine most effectively with odor molecules and dust particles in the atmosphere..

### Main Advantages:

The pattern and droplets formed by the Probe Rotary Atomizer result in a dramatic increase in efficiency for all spraying methods, creating the perfect droplet size, thereby reducing wasted liquid that is produced by conventional nozzle systems..Large droplets waste water because they do not adhere to particulates in the air and fall to the ground to soon.. On the other hand, droplets that are too small can drift away from a target area and evaporate too quickly.. The ideal is a consistent spray pattern, with uniform droplet size... The Probe Rotary Atomizer comes with a standard flow meter, which allows for a variable flow rate of liquid into the cylinder head..The flow rates can be regulated from 1/4 up to 50 gallons per hour, quickly and easily..

### Maintenance Problems Eliminated:

The Probe Rotary Atomizer has overwhelming advantages compared to conventional nozzle systems, which tend to become blocked and deformed with use.. Conventional nozzles have to be replaced, regularly maintained, require an extensive installation process (require filter changes, etc...) and of course do not allow a variable flow rate..

### Probe Rotary Atomizers:

- \* Never Blocks - No Need for Filters
- \* Use less water than nozzle systems
- \* Requires little or no maintenance
- \* Quickly and easily installed
- \* Energy efficient
- \* Mono dispersed droplet
- \* Provides excellent coverage area per unit

