

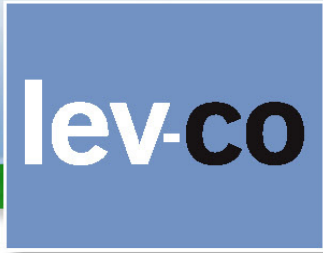
## Specification for LEV-CO Water Filter Dust Collector (Model: LEV-WFDC)

### 1. General Description:

- 1.1. LEV-CO Water Filter Dust Collectors purify air by a combination of centrifugal force and violent mixing of water and contaminated air. As the air stream passes the fixed baffles, particulate is separated by heavy, turbulent curtain of water created by high velocity air. The centrifugal force caused by the rapid changes in airflow direction forces the dust particles to penetrate the water droplets and become entrapped. Contaminated water is then removed from the airstream by special mist filters. Dust, as sludge, settles to the collector bottom and the water is reused.
- 1.2. The LEV-WFDC is specifically designed for safe collection of potentially explosive and volatile materials and is effective in the capture of fine metal particles. It meets the National Fire Protection Association guidelines for processing and finishing aluminum. Since the LEV-WFDC also meets OSHA and NFPA regulations for dust removal located inside buildings, it can recirculate in-plant, tempered air to conserve energy.

### 2. General Construction

- 2.1. Galvanized Steel Construction with Two-Part Cold Tar Epoxy Coatings to all Interior Wet Surfaces
- 2.2. Industrial Enamel "LEV-CO Blue" Coating on Exterior
- 2.3. Direct Drive/Non-overloading Fan
  - 2.3.1. 25 HP Fan
  - 2.3.2. 7,000 CFM @ 16" SP
  - 2.3.3. TEFC Motor mounted out of the air stream
  - 2.3.4. 575V/3/60 Inverter Duty Premium Efficiency "Inverter Duty" motor
  - 2.3.5. Spark Resistant Blower



### 3. Sludge Conveying hopper

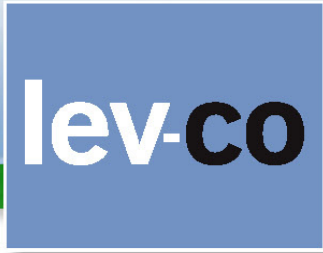
- 3.1. Sloped hopper to allow for simple “Open Valve” Cleaning
- 3.2. 2” NPT Ball Valve
- 3.3. 25’ Drain hose

### 4. Safety “After-Filter”

- 4.1. 99.97% @ 0.3 Micron DOP “after-filter”
- 4.2. Rated for 7000 CFM
- 4.3. Remote Mounted “Preventative Maintenance” gauge that will indicate to the operator that after filters require maintenance and/or change out
- 4.4. Remotely mounted Housing to allow for:
  - 4.4.1. Simple filter change
  - 4.4.2. Maintenance

### 5. Differential Pressure Automatic Fill System

- 5.1. Automatic Overflow cut-off switch
- 5.2. Redundant Pressure Switches
- 5.3. Magnahelic Gauges Measuring:
  - 5.3.1.1. Total Pressure
  - 5.3.1.2. Differential Pressure
- 5.4. Water level controlled by differential pressure



## 6. Electrical & Control Panel

- 6.1. Electrical enclosure in NEMA 12/13
- 6.2. Magnetic Motor starter
- 6.3. Push button on/off controls
- 6.4. Overload protection
- 6.5. Low water cut-off switch

## 7. Dimensions (excluding Remotely mounted HEPA filter)

- 7.1. Height: 174"
- 7.2. Width: 48"
- 7.3. Depth: 72"

## 8. Installation:

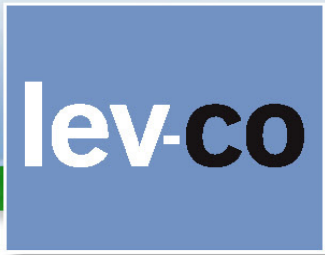
8.1. Installation to be completed according to the following recommendations and guidelines:

8.1.1. Industrial Ventilation Manual – ACGIH

8.1.2. American Society of Heating, Refrigeration & Air-conditioning Engineers, Air - ASHRAE

8.1.3. National Fire Protection Association – NFPA

8.2. Prior to installation a 3D drawing shall be presented to the client to ensure equipment, duct, capture ports and exhaust are all placed according to clients requirements. Drawing to be supplied by the Equipment Manufacturer and included in the equipment cost



9. **Guarantee:** Equipment manufacturer to provide 3 year guarantee and 30 day performance guarantee.

**10. Manufacturer:**

- 10.1. Lev-co, The Local Exhaust & Ventilation company Inc.
- 10.2. 1050 Brock Road, Unit 22-24
- 10.3. Pickering, Ontario
- 10.4. L1W 3X4
- 10.5. Contact: Rob Dinsmore – Engineering [robdinsmore@lev-co.com](mailto:robdinsmore@lev-co.com)
- 10.6. Website: [www.lev-co.com](http://www.lev-co.com)