



# Specification

**Product:** HYDROTRON MODELS HWF-\_\_\_\_\_, HWF-\_\_\_\_\_  
**Application:** Collection of Explosive Dusts such as Aluminum, Titanium, etc.  
**Revision:** January 27, 2003

---

## 1. GENERAL:

Hydrotron HWF Series are specifically designed for capture of fine metal particles. They are a safe and economic method of cleaning potential volatile materials. With air volumes between 500 CFM and 5,000 CFM, the units can be connected via ductwork to the dust generating machines for source capture. Water-type collectors may be placed indoors and can recirculate in-plant, tempered air to conserve energy.

### 1.1. Blower:

- 1.1.1. The blower shall have a direct drive backward inclined air foil type with coned inlet for maximum efficiency. It will not have any bearings to grease or belts to change.
- 1.1.2. The four point vibration isolators shall be housed in a sound insulated chamber.
- 1.1.3. The adjustable outlet louver will allow control of suction.
- 1.1.4. The blower shall be \_\_\_ HP TEFC motor with \_\_\_ / \_\_\_ / \_\_\_ volt and rated \_\_\_ CFM at \_\_\_ / \_\_\_ TSP (Total Static Pressure).

### 1.2. Motor Starter:

- 1.2.1. The magnetic motor starter shall be equipped with a push button ON / OFF button with overload protection in MENA 1 box at \_\_\_ volt standard.
- 1.2.2. It shall have a factory installed control voltage transformer with everything prewired and ready to hook up to disconnect switch.

### 1.3. Electrical:

- 1.3.1. Electrical requirements shall be \_\_\_ / \_\_\_ / \_\_\_ volt 3 phase power for blower with \_\_\_ / \_\_\_ / \_\_\_ amps. It shall be equipped with a make up water supply.
- 1.3.2. Electrical enclosures shall be NEMA 12/13.

**1.4. Cabinet:**

- 1.4.1. The cabinet shall be constructed of stainless steel with explosion proof motors and spark resistant blower and welded with 12 gauge galvanized steel.
- 1.4.2. The cabinet shall have sludge conveyors and sludge removal using Vacutron Pneumatic operated system to transfer the sludge for a 55 gallon drum. It will also have removable clear access panel for viewing and to access the wet section of the collector.
- 1.4.3. The cabinet shall be equipped with an interior baffle system to ensure thorough mixing of water and particulate.
- 1.4.4. The cabinet will also have Chevron style mist eliminator pack coalesces and will drain droplets back into the collector. The drain will be 1 ½” in diameter with male NPT and cap. The overflow will be ½” NPT and the diameter will be of \_\_\_” inlet with 2” lip.
- 1.4.5. The cabinet shall be painted with two part cold tar epoxy coating on all interior wet surfaces and with industrial acrylic enamel (Gulf Blue) coating on exterior.

**1.5. Automatic Fill System:**

- 1.5.1. The automatic electronic float valve shall control levels of water. It shall be equipped with a manual fill override switch for initial fillings of water and pressure regulator for inlet water supply when unit is running.
- 1.5.2. There will be a ½” NPT cut off valve to isolated unit for service and ½” NPT electrical solenoid only which will allow make up water to enter unit when blower is ON.

**1.6. Water Fill Control:**

- 1.6.1. The low water cut off switch shall disable the collector. It shall be equipped with an overflow water cut off switch.

**1.7. Odor Control (Optional):**

- 1.7.1. The odour shall be controlled with activated carbon, Purafill or other absorption material. Refillable modules shall be available to remove processed odours and gasses not removed by the wet collectors.

**1.8. Safety Filters (Optional):**

- 1.8.1. ASHRAE or Hepa after filters shall sometimes be required when recycling air from extremely hazardous dust applications. The after filters can also include visible or audible indicators.

**1.9. Shipping Weight and Dimensions:**

- 1.9.1. The shipping weight shall be approximately \_\_\_ lbs.
- 1.9.2. The overall dimensions shall be \_\_\_ wide x \_\_\_ deep x \_\_\_ high.

**1.10. Acceptable Product:**

- 1.10.1. \_\_\_\_\_
- 1.10.2. Toll Free: (888)-862-5356
- 1.10.3. Website & Email: [www.LEV-CO.com](http://www.LEV-CO.com) / [Sales@LEV-CO.com](mailto:Sales@LEV-CO.com)