

# **ACIDIC CONDENSATE WASTEWATER pH TREATMENT SPECIFICATION**

~ Condensing Boilers, Furnaces, Hot Water Heaters, Flue Economizers, Flue Drains~

**Part 1 – GENERAL / Heater Units with BTU Inputs of 1-250 MBH  
Floor or wall mounted combination Neutralizer and A.C. Condensate pump  
package.**

## **1.1 RELATED DOCUMENTS**

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specifications, apply to this Section.

## **1.2 SUMMARY**

A. This section includes Fireside acidic condensate wastewater treatment.

B. Related Sections include the following:

1. Division 23 Section "Breeching, Chimney, and Stack Drains.

2. Division 23 Section "Acidic condensate collection and treatment.

3. Division 23 Section for control wiring for automatic pH treatment control of acidic condensate wastewater.

## **1.3 SUBMITTALS**

A. Product Data: Include rated capacities; shipping; installed, and operating weights; furnished specialties and accessories for each model indicated.

B. Shop Drawings: Detailed equipment assemblies and indicated dimensions, required clearances, and method of field assembly, components, and location and size of each field connection.

C. Maintenance Data: Include in the maintenance manuals specified in division 1. Include parts list, and maintenance guide.

## 1.7 WARRANTY

A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents. Installing contractor shall provide one year of warranty parts and labor.

B. Special Warranty: Submit a written warranty, executed by the contractor for the vertical mount canister neutralizer.

C. Warranty Period: Shall be two year from date of Commissioning for manufacture's defects. The warranty does not include recharging of the cartridge.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURES

A. Available Manufactures: Manufacturer shall be a company specializing in the manufacturing of the products specified in this section with minimum five (5) years experience.

B. Service Access: Twist off canister with inner pellet charged cartridge.

C. Testing: Contractor shall test pH level at the outlet of the canister with a digital pH meter and submit a report to the design Engineer.

## 1.4 Manufactures

A. Manufacturers: JJM BOILER WORKS, INC. is the basis of design. Listed acceptable manufacturers shall be subject to compliance with the requirements. Provide pH treatment canister by one of the following:

MODEL: Basis of design is the **V-250-Combi**, Acidic Condensate wastewater pH Treatment / A.C. Condensate pump package.

1. JJM Boiler Works, Inc.
2. Viessmann, USA
3. Nu-Con Company

**The active ingredient shall be Magnesium Hydroxide Pellets. Limestone, calcite flakes, and marble chips will not be accepted on this project.**

## 1.5 COMPONENTS:

- A. 10" Twist off canister with inner pellet charged cartridge.
- B. Pre-charged with Magnesium Hydroxide Pellets.
- C. (1) 3/8" Polypropylene fame equipment mounting frame.
- D. (1) 1/2" Inlet Port
- E. (1) 1/2" Outlet Port with 5/8" Tubing (Neutralizer Outlet Port)
- F. (2) 3/4" A.C. Condensate inlet ports
- G. (1) 1/2" O.D. Barbed condensate outlet port.
- H. Canister shall be Polypropylene one piece clear.
- I. Acidic Condensate/Air Conditioning Condensate Tank-Pump

**J. Neutralizing Canister and Condensate pump must be able to be switched and mounted on either the left or right side of the 3/8" mounting platform with factory pre-drilled holes.**

G. Schedule:

Model	MBH Rating	GPH Rating	Manufacture
V-250-Combi	250	1.90	JJM Boiler Works
Electrical Ratings	1.5 Amps	15 Amp Breaker	Little Giant

2.2 Product Rating:

A. Shall be rated up to 250 MBH

B. Flow rate shall be up to 1.90 GPH

C. Vertical Wall Mounting or floor mount, designed for wall hung boilers, hot water heaters, flue stack drains, and warm air furnaces with A.C.

**D. The canister shall be designed so the service technician does not have to disconnect unions or piping when recharging is required.**

2.3 COMMISSIONING:

1. Contractor shall engage a Factory-authorized service representative to provide startup service or commissioning may be done by the contractor. Start up to be performed only after complete boiler room operation is field verified by the installing contractor. One Year labor and parts warranty shall be provided by the contractor.

