

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 WALL MOUNTED NEUTRALIZER FOR WALL HUNG HEATERS

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 canister.

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 (s) by one of the following:

MODEL: **V-250** Acidic Condensate wastewater pH Treatment vertical mount canister.

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 charge cartridge.
- B. Pre-charged with Magnesium Hydroxide Pellets.
- C. (1) Powder coated steel wall mounting bracket.
- D. (1) 1/2" Inlet Port
- E. (1) 1/2" Outlet Port
- F. Canister shall be Polypropylene one piece clear.

G. Schedule:

Model	MBH Rating	GPH Rating	Manufacture
V-250	250	1.90	JJM Boiler Works

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 Only, designed for wall hung boilers, hot water heaters, flue stack drains, and warm air furnaces.

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.