

# CONDENSATE pH TREATMENT SPECIFICATION

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

## Part 1 - GENERAL

### 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 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.

### 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.

## 1.6 QUALITY ASSURANCE

A. All components shall be schedule 40 PVC

## 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 Inline Tube Neutralizer.

C. Warranty Period: Shall be one year from date of Commissioning for inline series JM tubes.

## 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: The contractor shall use unions or PP tubing with clamps for easy servicing.

C. Testing: Contractor shall test pH level at the outlet of the tube 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 inline tubes by one of the following:

MODEL: **JM-40** Acidic Condensate pH Treatment Inline Tube.

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

**The active ingredient shall be MgO Pellets, limestone or marble chips will not be accepted on this project.**

#### 1.5 COMPONENTS:

- A. Two 10" mounting Steel Strut channels.
- B. Two 6" Strut Clamps.
- C. Pre-charged Magnesium Oxide Pellet Tube.
- D. Two: 1" NPT x 1" O.D. Barb fittings.
- E. Inline Tube may be Opaque color Tubing or Clear PVC Tubing.
- F. Inline tube shall have two inlet ports 1" (1)@3:00 (1)@9:00
- G. Inline tube shall have (1) 1" Outlet Port @ 12:00
- H. Inline tube shall have (1) 6" removable plug for servicing.
- I. Inline tube shall be supplied with (1) 1" PVC Threaded Plug.

J. All packing material shall be recyclable paper and cardboard. No form shall be used in packing.

## 2.2 Product Rating:

- A. Shall be rated up to 4,000 MBH
- B. Flow rate shall be up to 32.0 GPH
- C. Horizontal Mounting Only.

## 2.3 COMMISSIONING:

1. Contractor shall engage a Factory-authorized service representative to provide startup service or commission 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.

