

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 Polypropylene and Polycarbonate plastic.

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 acidic condensate pH treatment tank.

C. Warranty Period: Shall be two year from date of Commissioning for manufacture's defects in workmanship.

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 schedule 40 or PP tubing with clamps for piping.

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 tank by one of the following:

MODEL: NBT-23 with clear see through access cover.

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

1.5 COMPONENTS:

- A. Polypropylene tank
- B. Ph Power Pellets™ (magnesium hydroxide)
- C. .75" PVC socket inlet port
- D. .75" PVC socket outlet port
- D. Polycarbonate clear see through access cover.
- E. Two lockdown cover bolts and nuts.
- F. Polypropylene Horizontal baffle plates.
- G. EPDM port gaskets

2.2 Product Rating:

- A. Shall be rated up to 300 MBH
- B. Flow rate shall be up to 2.40 GPH
- C. Horizontal Mounting Only / Wall or Floor

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.

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