SECTION 223200 – SCALE FORMATION PROTECTION SYSTEM

PART 1 - GENERAL

1.1 WORK INCLUDED

A. System shall provide protection from scale formation on internal and external plumbing surfaces through physical water treatment known as Template Assisted Crystallization (TAC). System shall be free from the use of Salts, Electricity, Backwashing and/or Chemical Additives.

1.2 RELATED WORK

A. Division 22 Plumbing:

1. Domestic Water Piping.
2. Plumbing Insulation.
3. Domestic Water Piping Specialties.
4. Meters and Gauges for Plumbing Piping.

1.3 SUBMITTALS

A. Submit shop drawings and product data as specified.

B. Submit manufacturer's certified capacity data.

C. Submit manufacturer's installation, start-up and service instructions.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS:

A. Watts OneFlow.

B. Approved Equal.

2.2 CAPACITY

A. The scale protection system shall have the capacity as scheduled on the drawing.

2.3 TANKS

A. Design tanks for a working pressure of 125 psi.

2.4 MINERAL

A. System shall be free from the use of any salts and/or chemical additives.

B. System shall conform to DVGW Standard W-512 for scale removal efficiency using physical water treatment devices as established by the German Technical and Scientific Association for Gas & Water.

C. Media contained within the system shall be tested and certified for material safety to NSF/ANSI Standard 42 and 61.

D. Media within the system shall be replaced every three years to insure continued scale protection.

PART 3 - EXECUTION

3.1 INSTALLATION

A. The system shall be plumbed with a bypass valve to allow isolation of tank(s) and to allow the bypass of untreated water usages in the event that service or media replacement be necessary.

B. The installation area should be suitable in size for the tank(s) to be serviced without encumbrance and sit upright on a flat, level surface

C. Large diameter tank(s), 14” and 16”, should be secured to the floor surface wit lag bolts in each tank leg.

D. Install the system in accordance with the manufacturer’s installation, start-up and service instructions.

3.2 INSTRUCTIONS

A. Provide a complete set of instructions covering the installation, operation and servicing of the scale formation protection system.

B. Insert in the Owner’s manual.

3.3 SYSTEM MANUFACTURER START-UP SERVICE

A. Provide the services of factory trained service technicians to start up the system.

1. Technicians shall be trained and experienced on the work they conduct.

END OF SECTION 223200