SECTION 224716 – WATER COOLERS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Wall mounted water coolers, indoor locations.
2. In-wall mounted water coolers, indoor locations.
3. Wall mounted water coolers, outdoor locations.

1.2 SUBMITTALS

A. Product Data: For each product indicated, include trim, fittings, accessories, appurtenances, supports, materials and finishes, dimensions, construction details, and flow rates.

B. Operation and maintenance data.

C. Documentation of 5 year warranty on refrigeration system.

1.3 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use; including UL 399 Standard for Drinking-Water Coolers.


C. NSF Standard: Comply with NSF/ANSI 61, "Drinking Water System Components--Health Effects," for fixture materials that will be in contact with potable water.

D. Compliance with ASME 112.19.3 Standard for Stainless Steel Plumbing Fixtures.

PART 2 - PRODUCTS

2.1 WATER COOLERS AND ASSOCIATED ACCESSORIES

A. Basis-of-Design Products: Provide the product indicated on the Drawings or approved comparable product based on the list below:

B. Water Cooler (Wall Mounted): Electric refrigerated water cooler, stainless steel finish, two bi-level station bubblers with push button activation, flexible polyester elastomer bubblers, laminar flow bottle filling station with electronic sensor activation, ADA compliant, 8 gph of 50F water with 80F room temperature, R134a refrigerant, hermetically sealed compressor, fan cooled condenser with
copper tubes and aluminum fins, certified lead free design, factory carrier, and 115/1/60 power requirement. Elkay LZSTL8WSSP or approved equivalent from Elkay, Halsey Taylor, or Murdock.

Filtration: Elkay WaterSentry Plus Filtration Assembly, 1.5 gpm flow rate, 3000 gallon capacity per cartridge, NSF Certified to NSF/ANSI 42 & 53 for reduction of chlorine, taste and odor, Particulate Class 1, and lead.

Supply: Quarter turn angle stop, 1/2" x 3/8", stainless steel braided risers. McGuire Model LFBV2-02 or approved equivalent from McGuire, Brass Craft, or Dahl Brothers.

Drain/Trap: 1-1/2" cast brass p-trap with brass nuts, 17 gage, cleanout, flange, insulating kit. McGuire Model No. MCT150090B or approved equivalent from McGuire, Kohler, or Zurn.

C. Water Cooler (In-wall Mounted): Electric refrigerated water cooler, stainless steel finish, two bi-level station bubblers with push button activation, flexible polyester elastomer bubblers, laminar flow bottle filling station with electronic sensor activation, ADA compliant, 8 gph of 50F water with 80F room temperature, R134a refrigerant, hermetically sealed compressor, fan cooled condenser with copper tubes and aluminum fins, certified lead free design, factory carrier, and 115/1/60 power requirement. Elkay LZWS-LRPBM28K or approved equivalent from Elkay, Halsey Taylor, or Murdock.

Filtration: Elkay WaterSentry Plus Filtration Assembly, 1.5 gpm flow rate, 3000 gallon capacity per cartridge, NSF Certified to NSF/ANSI 42 & 53 for reduction of chlorine, taste and odor, Particulate Class 1, and lead.

Supply: Quarter turn angle stop, 1/2" x 3/8", stainless steel braided risers. McGuire Model LFBV2-02 or approved equivalent from McGuire, Brass Craft, or Dahl Brothers.

Drain/Trap: 1-1/4" cast brass p-trap with brass nuts, 17 gage, cleanout, flange, insulating kit. McGuire Model No. MCT125085B or approved equivalent from McGuire, Kohler, or Zurn.

D. Water Cooler (Wall Mounted)(Outdoor Locations): Electric refrigerated water cooler, stainless steel finish, single level station bubbler with push button activation, flexible polyester elastomer bubbler, laminar flow bottle filling station with electronic button activation, vandal resistant, 8 gph of 50F water with 80F ambient temperature, R134a refrigerant, hermetically sealed compressor, fan cooled condenser with copper tubes and aluminum fins, certified lead free design, factory carrier, and 115/1/60 power requirement. Elkay VRC8WSK or approved equivalent from Elkay, Halsey Taylor, or Murdock.

Supply: Quarter turn angle stop, 1/2" x 3/8", stainless steel braided risers. McGuire Model LFBV2-02 or approved equivalent from McGuire, Brass Craft, or Dahl Brothers.

Drain/Trap: 1-1/2" cast brass p-trap with brass nuts, 17 gage, cleanout, flange, insulating kit. McGuire Model No. MCT150090B or approved equivalent from McGuire, Kohler, or Zurn.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine the water supply, drainage, and vent piping roughin to verify their actual locations are compatible with the proper installation of the carriers and fixtures.
B. Examine the walls, partitions, and floors to verify suitable conditions exist for the installation of the carriers and fixtures.

C. Proceed with the installation of fixtures only after proper conditions for installations are present. Coordinate any required adjustments with the other contractors as necessary.

D. Collaborate with the framing contractor so no studs or other framing members are notched, holesawed, or cut for the installation of the plumbing.

3.2 APPLICATIONS

A. Use carrier off-floor supports for wall-mounting fixtures, unless otherwise indicated.

B. Use chrome-plated brass or copper tube, fittings, and valves in locations exposed to view.

3.3 INSTALLATION

A. All aspects of the fixture installation shall be in accordance with the manufacturer's published instructions.

B. Provide off-floor supports affixed to building structure and attach wall-mounting fixtures, unless otherwise indicated.

C. Provide fixtures level and plumb. For fixtures indicated for children, install at height indicated on Architectural Drawings.

D. Provide water-supply piping with shutoff valve on supply to each fixture to be connected to water distribution piping. Use ball valve. Install valves in locations where they can be easily reached for operation. Valves are specified in Division 22 Section "General-Duty Valves for Plumbing Piping."

E. Provide trap and waste piping on drain outlet of each fixture to be connected to sanitary drainage system.

F. Provide pipe escutcheons at wall penetrations in exposed, finished locations. Use deep-pattern escutcheons where required to conceal protruding pipe fittings. Escutcheons are specified in Division 22 Section "Common Work Results for Plumbing."

G. Seal joints between fixtures and walls and floors using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color. Sealants are specified in Division 7.

3.4 CONNECTIONS

A. Connect fixtures with water supplies, traps, and risers, and with soil, waste, and vent piping. Use size fittings required to match fixtures.

B. Ground equipment according to Division 26.

C. Connect wiring according to Division 26.
3.5 FIELD QUALITY CONTROL

A. Water Cooler Testing: After electrical circuitry has been energized, test for compliance with requirements. Test and adjust controls and safeties.

1. Remove and replace malfunctioning units and retest as specified above.
2. Report test results in writing.

3.6 ADJUSTING

A. Adjust fixture flow regulators for proper flow and stream height.

B. Adjust water cooler temperature settings.

END OF SECTION