



**US Army Corps
of Engineers®**

ENGINEERING AND CONSTRUCTION BULLETIN

No. 2013-3

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Subject: Required Installation of Water Coolers with Bottle

Applicability: All Projects

1. References: None.

2. Water is one of the most essential components of the human body. Water regulates the body's temperature, cushions and protects vital organs, and aids the digestive system. Many people consume water from plastic bottles. According to a 2001 report of the World Wide Fund for Nature, roughly 1.5 million tons of plastic are expended in the bottling of 89 billion liters of water each year. Approximately 86 percent of those bottles in the USA are not recycled and end up in landfills or the ocean. It takes 700 years before plastic bottles start to decompose and can take up to 1000 years to fully decompose.

3. Manufacturers in the US have recently started incorporating bottle fillers with water coolers to encourage the use of personal refillable bottles. The average cost of water coolers with bottle fillers is approximately the same as the average cost of water coolers without bottle fillers. Absent of a project cost impact or any other technical reason, all current and future projects are to install water fountains that incorporate a bottle filling feature. Projects under way shall be amended or changed provided the material has not been already purchased.

4. Attached is a generic description and pictures of acceptable units with sample guide specifications that can be used until the Unified Facilities Guide Specification (UFGS) 22 00 00 is revised.

5. If you have questions, our point of contact is Ms. Paula Loomis, Chief of Military Sustainability CECW, 202-761-7526.

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JAMES C. DALTON, P.E.
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Directorate of Civil Works

ECB No. 2013-3

Subject: Required Installation of Water Coolers with Bottle Attachment

Below is the draft language to be used until the revised USGS specification is released and images of water coolers with bottle fillers. The interior water coolers are stainless steel exteriors with push levers, bars, bottle fillers and overall design to meet handicapped accessibility requirements. The exterior water cooler are stainless steel and cast aluminum, concrete/stone aggregate or similar sturdy materials with levers, bottle fillers and overall design to meet handicapped accessibility requirements.

2.4.14 Drinking-Water Coolers

AHRI 1010 with more than a single thickness of metal between the potable water and the refrigerant in the heat exchanger, wall-hung, bubbler style, air-cooled condensing unit, 5 ml per second (4.75 gph) minimum capacity, stainless steel splash receptor and basin, bottle filler and stainless steel cabinet..Bubblers shall be controlled by push levers or push bars, front mounted or side mounted near the front edge of the cabinet. Bubbler spouts shall be mounted at maximum of 914 mm (36 inches) above floor and at front of unit basin. Spouts shall direct water flow at least 102 mm (4 inches) above unit basin and trajectory parallel or nearly parallel to the front of unit. [Provide filters for chlorine in supply piping to faucets.] Provide ASME A112.6.1M concealed steel pipe chair carriers.

2.4.15 Wheelchair Drinking Water Coolers

AHRI 1010, wall-mounted bubbler style with ASME A112.6.1M concealed chair carrier, air-cooled condensing unit, 5 mL per second (4.75 gph) minimum capacity, stainless steel splash receptor, and all stainless steel cabinet, with 686 mm (27 inch) minimum knee clearance from front bottom of unit to floor and 914 mm (36 inch) maximum spout height above floor and bottle filler. Bubblers shall also be controlled by push levers, by push bars, or touch pads one on each side or one on front and both sides of the cabinet. [Provide filters for chlorine in supply piping to faucets.]

