



Industrial and Hazardous-Duty Bottled-Water Coolers

Standardized Units Designed Specifically for Long Life in Harsh and Explosive Industrial, Marine and Military Conditions

BSDE manufactures the first standardized product line of industrial bottled-water coolers specifically made for use in corrosive, dusty, hot, humid, and even hazardous locations

These Are Standard Features, Not Options:

- ▶ All units can be modified for hazardous (explosive) locations (Classes I, II and III, Division/Zones 1 or 2)
- ▶ To resist corrosion and damage, all cabinets made with 18-gauge stainless-steel (type 316L)
- ▶ Dust and sand pass through condensers without clogging
- ▶ Anti-corrosion coating applied to all tubing
- ▶ Full rated cooling capacity up to 131°F (55°C) — not just up to the normal 95°F (35°C) — without modification or electronic controls
- ▶ Mechanical controls only — eliminates vulnerability of electronics and their high cost to repair
- ▶ All controls protected in NEMA 4X or NEMA 4X/7/9 enclosure
- ▶ Units meet NEMA 4X and IP56 standards
- ▶ Units have extra-large condensers to provide cooling at high altitudes and at high ambient temperatures
- ▶ Corrosion-resistant heavy-duty valve for filling cups
- ▶ Accepts all standard-sized bottles
- ▶ Maintenance facilitated by refrigerant access valves, sight glass, and dryer
- ▶ Guaranteed replacement within 48 hours, at our expense, of any standard unit which fails
- ▶ Standard electrical configurations available: 115/60/1 and 220-240/50-60/1



IF YOUR BOTTLED-WATER COOLER MUST WORK, WE HAVE UNITS WAITING FOR YOU

Frequent Uses of BSDE Industrial Coolers Include Tough Applications Where Cold, Safe Drinking Water is Necessary, Especially If Conditions Are Harsh or Hazardous:

- Airplane Hangers
- Alcohol Extract Plants
- Chemical Plants
- Coal and Coke Plants
- Dry-Cleaners and Dyers
- Explosives Manufacturers
- Flour and Feed Mills
- Fragrance and Extract Plants
- Fuel Storage and Handlers
- Grain Elevators
- Guard Buildings
- Hazardous Goods Storage Facilities
- Hospitals
- Laboratories
- Land Fills
- Recycling Plants
- Military Ships
- Mining
- Munitions Handling
- Offshore Oil-Drilling Platforms
- Oil Refineries
- Painting and Solvents
- Paper Manufacturing
- Pharmaceutical Plants
- Refueling/Loading Facilities
- Sewage Plants
- Tankers
- Textile Plants
- Vehicle Air-Bag Makers

Specifications

Cabinet: All corrosion-resistant stainless steel type-316L, inside and outside including interior shelves, mountings and drip basin. Satin finish on all exterior surfaces for an attractive and easily-cleaned lustrous appearance. Bottle-support ring made of durable and corrosion-resistant polypropylene.

Controls: Protected from environment by installation inside NEMA 4X (IP66) or NEMA 4X/7/9 enclosure.

Valves: Self-closing, no-drip. Made from durable and corrosion-resistant "chrome"-finished polypropylene.

Cold Water Reservoir: Flat-bottom stainless steel basin with approximately 2-1/2 quarts (2.4 liters) useable capacity and polypropylene fittings. Corrosion-protected copper evaporator coil is wrapped around reservoir, insulated with closed-cell elastomer and bonded to basin with thermal mastic. Capillary tube, sight glass, filter-dryer, two access valves and all other metal tubing coated with a special epoxy coating (e-coat) with near-zero porosity applied electrostatically and baked to protect them from acidic and caustic corrosion.


Condenser: Triple layer and sized for high ambient temperatures and high altitudes, and protected against acidic and other corrosion with a special epoxy coating (e-coat) with near-zero porosity applied electrostatically and baked.

Compressor: Andover Protection Systems' Model EEG (for 115/60/1) or APS Model EEJ (220-240/50-60/1) These compressors are specifically designed for use in harsh or harsh and hazardous conditions.

Capacity:

Rated Capacity - At water and air temperature of 131°F (55°C)— lower 1/2 gallon per hour of water from 131°F (55°C) to 50°F (10°C) — Note: 131°F water will scald skin; therefore, chiller must lower the water 81°F (27°C) degrees to reach the standard chilled-water temperature of 50°F (10°C).

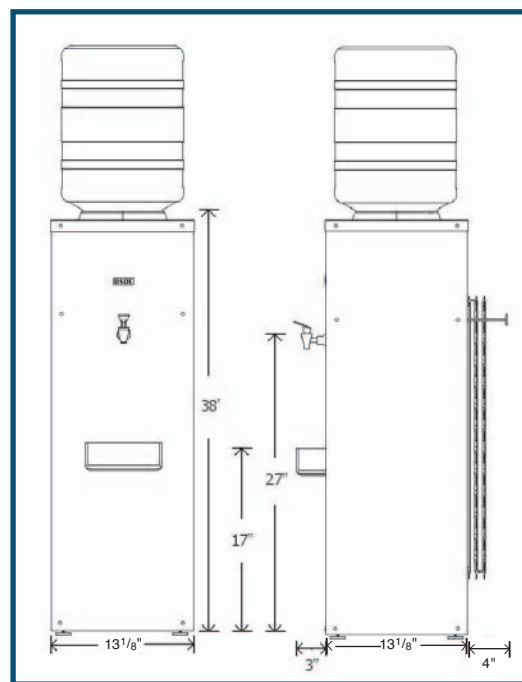
Capacity at ARI standard conditions - water and air temperature of 90°F (32.2°C)—lower 0.9 gallons per hour of water from 90°F (32.2°C) to 50°F (10°C) — (50% more cold water than standard units)

A.D.A.: Overall, the coolers comply with the requirements of the ADA specification 4.15.2-4 

Shipping Dimensions: Approximately 80 lbs. and 10 cubic feet.

Hazardous Duty

When specified, BSDE will make the units suitable for hazardous-duty ("explosion-proof" or "flame-proof") conditions. BSDE will use UL-recognized hazardous-duty compressors appropriate for the classification of the area. BSDE offers bottled-water coolers suitable for use in areas classified as any of the following types of locations: Class I, II, or III, Groups B, C, D, E, F or G, and Division/Zone 2 or 1. The coolers will be factory sealed for fast and easy installation. The units will have the harsh-duty features of BSDE's standard coolers.



BSDE

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