

- entering a mechanical room through a standard 3'-0" x 6'-8" door. Storage tank capacity shall be as scheduled. Tank shall be insulated with 3" fiberglass insulation, with an R-value > 12.5. Tank shall be jacketed with heavy gauge steel with a baked enamel finish.
- 4.3. The unit shall be designed to recover the quantity of water in gallons per hour specified in the schedule, a 100°F temperature rise (40°F to 140°F) when supplied with 5 psi steam to the temperature regulator.
 - 4.4. The heating coil shall be constructed and stamped according to section VIII of ASME code. The tube bundles shall be constructed of 3/4" O.D. 20 GA. deoxidized drawn copper tubing.
 - 4.5. Unit shall have an ASME temperature & pressure relief valve.
 - 4.6. The packaged unit shall also include the following:
 - 4.6.1. A temperature regulator to be self actuated, direct acting Spence type E Valve and T124/134 temperature and pressure pilot. No substitutions are permitted.
 - 4.6.2. Main F&T trap, main "Y" strainer and associated black steel pipe.
 - 4.6.3. A bronze integral circulator pump with copper soldered recirculation line and (2) bronze ball valves.
 - 4.6.4. A drain valve and assembly.
 - 4.6.5. Jacket mounted temperature & pressure gauge.
 - 4.6.6. Full length channel base and lifting lugs.
 - 4.6.7. Air vent and vacuum breaker.
 - 4.6.8. A 4"x6" handhole, and 11"x15" manhole.
 - 4.7. Preferred Manufacturers:
 - 4.7.1. AO Smith Corporation
5. Electric Water Coolers
- 5.1. Units shall be a 1 or 2 (high/low) unit design, ADAAG approved with INTEGRAL refrigeration system. REMOTE refrigeration designs are NOT PERMITTED.
 - 5.2. : In lieu of dual level refrigerated drinking fountains, provide two separate wall mounted, vandal resistant, water coolers with at least 1 of the units of the barrier free access design. Units shall be installed with a minimum of six (6) inches of clearance between the two. Each unit shall be furnished with its own electrical duplex outlet, P-trap, and 3/8" cold water connection with stop valve. Water coolers will be supported from wood blocking in the wall cavity, not supported on a metal carrier.
 - 5.3. Unit electric service shall be 110 volt.
 - 5.4. Elkay units are preferred.
 - 5.5. Bottle Fill stations included.
6. Sump pumps
- 6.1. Sewage, effluent pumps shall be a cast iron, oil-filled, non-clogging bronze impeller and U.L. Listed. Pump shall be capable of passing a 2" sphere.
 - 6.2. Grinder pumps shall be cast iron, bronze impeller with a stainless steel cutter and disc.

