SECTION 22 11 23
DOMESTIC WATER PUMPS

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes the following all-bronze centrifugal pumps for domestic cold- and hot-water circulation:
   1. Close-coupled, in-line, sealless centrifugal pumps.
   2. Separately coupled, in-line centrifugal pumps.
   3. Close-coupled, in-line centrifugal pumps.

PART 2 - PRODUCTS

2.01 CLOSE-COUPLED, IN-LINE CENTRIFUGAL PUMPS

A. Description: Factory-assembled and -tested, overhung impeller, single-stage, close-coupled, horizontally mounted, in-line centrifugal pumps as defined in HI 1.1-1.2 and HI 1.3; and designed for installation with pump and motor shafts mounted horizontally.
   1. Pump Construction: All bronze.
   2. Shaft Coupling: Rigid type if pump is provided with coupling.
   3. Motor: Single speed, with grease-lubricated ball bearings. Comply with requirements in Division 22 Section "Common Motor Requirements for Plumbing Equipment."

2.02 CONTROLS

A. Thermostats: Electric; adjustable for control of hot-water circulation pump.
   1. Type: Water-immersion sensor, for installation in hot-water circulation piping.
   2. Range: 50 to 125 deg F

B. Timers: Electric time clock for control of hot-water circulation pump.
   1. Type: Programmable, seven-day clock with manual override on-off switch.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine roughing-in of domestic-water-piping system to verify actual locations of connections before pump installation.

3.02 PUMP INSTALLATION

A. Comply with HI 1.4.

B. Install pumps with access for periodic maintenance including removal of motors, impellers, couplings, and accessories.

3.03 CONTROL INSTALLATION

A. Install immersion-type thermostats in hot-water return piping.

B. Install timers on wall in the maintenance office or similar space.

END OF SECTION 22 11 23