Method of Preventing Scale in Cooling Water System

Abstract

To provide a method of preventing scale in cooling water system which prevents calcium carbonate scale effectively in a cooling water system in water treatment where a phosphor compound is not used. A water-soluble polymer and zinc compound are added to the cooling water system such that a concentration of zinc becomes 0.5-3 mg/L, and a concentration of the water-soluble polymer becomes 2-50 mg-solid/L in the cooling water system. By adding the water-soluble polymer together with zinc compound without adding a phosphor compound to the cooling water system, the CSI of the cooling water system is increased, whereby scale, especially calcium carbonate scale is prevented effectively even in a cooling water system having a high calcium hardness.

Figure 1