

Purification of aquacultural water: conventional and new membrane-based techniques

Abstract

Removing solids is an essential task when recirculating water in an aquaculture system. Dissolved solids production directly from particulate solids as well as by fish is a function of time. These contaminants can indirectly affect the fish both biologically and physically. The flaws of conventional water treatment on seawater aquaculture systems are reviewed in this paper. Then a new technology for membrane processes is described to remove fine particles and dissolved matter in addition to performing gas transfer.