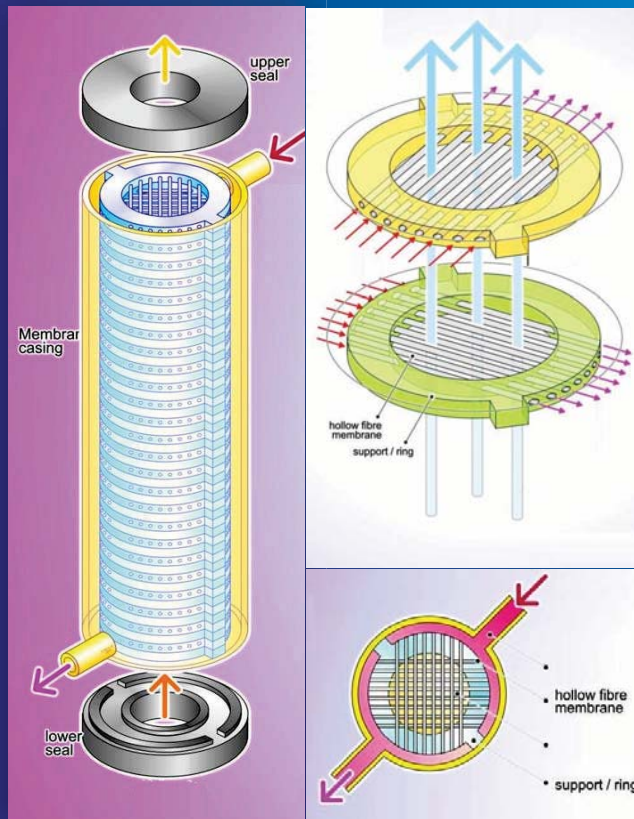


=Breakthrough Technology=

Membrane Cooling Tower

INDONESIA PATENT P00200400522



The present invention relates to equipment and process for closed loop circulation cooling tower. This invention uses hydrophobic microporous hollow fiber membrane which is permeable to gas but not permeable to water. Temperature reduction is facilitated by introducing air into liquid phase, which will subsequently be separated in hydro-cyclone unit.



Closed circulation system avoids cooling water contamination by particles and microorganisms from the air, as often occurs when using conventional cooling tower. Thus, fouling on heat exchanger wall can also be prevented since membrane is used as contacting device.

With advantages of zero contamination and energy-efficient in a simple compact equipment, Membrane Cooling Tower is a powerful alternative for industrial cooling system.



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