

ABSTRACT

The invention relates to a system and device for desalination by liquid water jet compression, which is a phase-change desalination with a high-efficiency latent heat exchanger in which the pressure of the primary saturated vapor is increased until obtaining the secondary saturated vapor by injecting
5 translational and rotational kinetic energy via pressurized water jets, so as to leave an unobstructed path through which the vapor flows at high speed in order to achieve a high flow rate and high efficiency.