CLAIMS

1. A first water treatment system, comprising:

at least one tank, said at least one tank comprising;

at least one vacuum chamber; said at least one vacuum chamber comprising at least one misting spray bar;

at least one electric heating element, said at least one electric heating element located at the bottom of and within said tank, said at least one electric heating element directly heating water;

at least one evaporator;

at least one heat exchanger;

at least one supercharger said at least one supercharger fluidly connected to said vacuum chamber and placed externally to said tank;

at least one power source; and

at least one pump; piping external to said tank, said piping fluidly connecting said at least one vacuum chamber and said at least one heat exchanger; and wherein water vapor passes from said at least one vacuum chamber to said at least one supercharger then through said external piping to said at least one heat exchanger.

2. The first water treatment system of claim 1 wherein said at least one heat exchangers is selected from the group of falling film type, rising film type, copper pipes, plate exchanger and combinations thereof.

3. The first water treatment system of claim 1 further comprising a circulator placed within said at least one tank.

4. The first water treatment system of claim 1 further comprising a baffle placed within said at least one tank.

5. The first water treatment system of claim 1 wherein said evaporator is a metal pipe.

6. A water treatment system comprising, the first water treatment system of claim 1 is in fluid communication with a second water treatment system, wherein the structure of the second water treatment system is the same as the first water treatment system.

7. The water treatment system of claim 6 wherein said first water treatment system and said second water treatment system share a vacuum source.