

System Schematics, Flow Visualizations & Experimental Performance Data

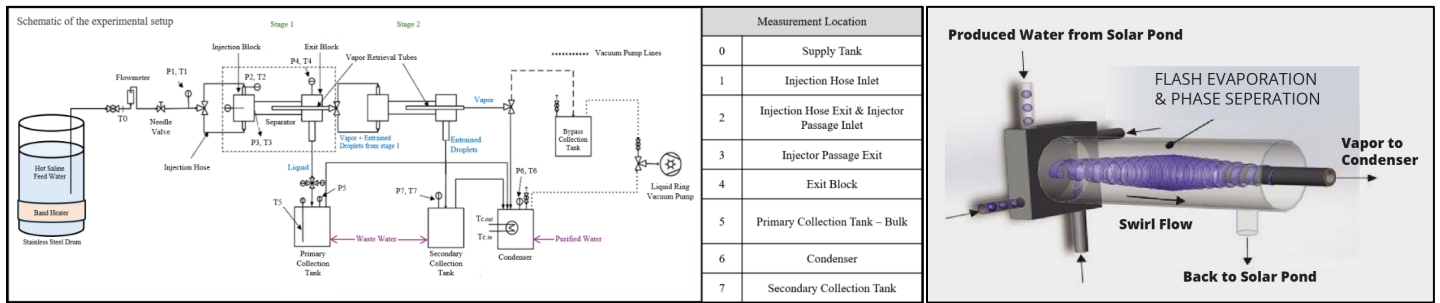


Fig. 1 Schematic for experimental apparatus for extremely high salinity desalination experiments.

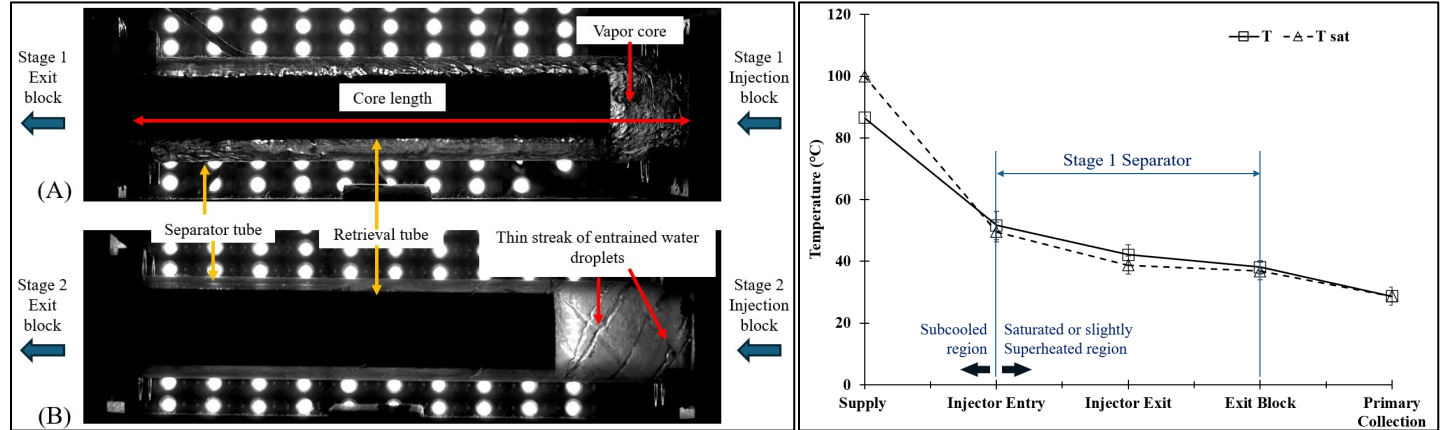


Fig. 2 High speed camera images for swirl flow separation in test chambers for 20% salinity test at 0.25 GPM (15.8 ml/s) flowrate and 90°C supply temperature in (A) Stage 1 and (B) Stage 2; (C) Temperature profiles for 0.25 GPM (15.8 ml/s) and 90°C supply temperature for **20% salinity** test.

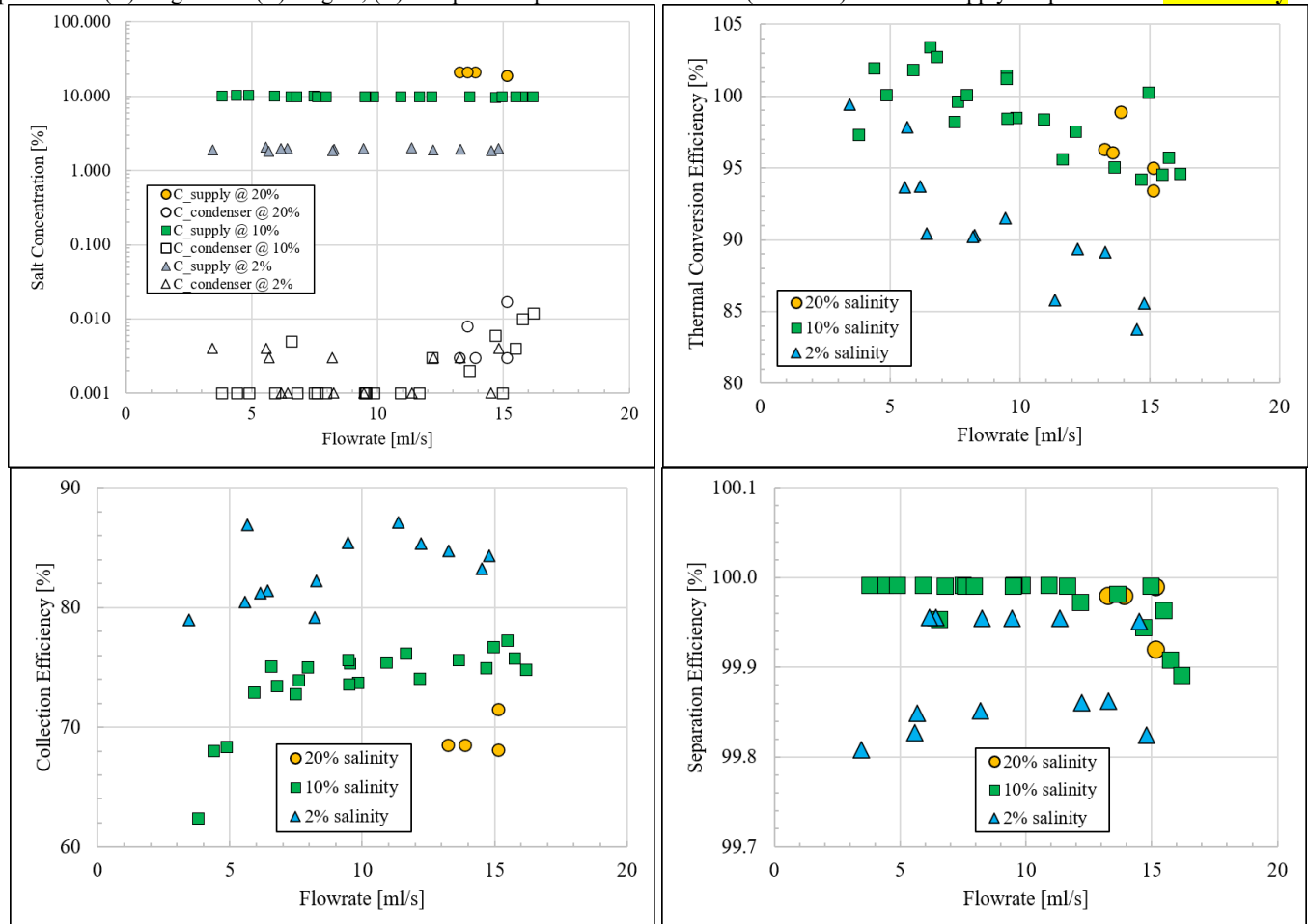


Fig. 3 Comparison between results for 2%, 10% and 20% salinity levels plotted for (Top Left) Salt concentrations (top Right) Thermal conversion efficiency, (Bottom Left) Collection efficiency and (Bottom right) Separation efficiency.

