

DISCUSSION

As the results obtained show a slight difference in the numerical values this could be ~~due~~ due to the experimental errors encountered. The value of x obtained from ~~separating~~ combined ~~separating~~ and throttling calorimeter was $x = 0.075$ as alluded earlier. Errors could have arisen from measuring of the various volumes of water taken during the experiment and parallax error could also have had an impact on the results obtained especially when reading the values for \dot{m}_1 and \dot{m}_2 and when obtaining readings from the manometer an average of the lower and upper limit was obtained as the reading of the pressure after throttling.

Loss of heat to the surrounding could have also had an effect on the values obtained in the experiments as the pipes of the instruments were leaking especially at the joints. Vapour was also escaping out of the small collecting beakers used to collect the water also contributed to the errors encountered in the experiment.