

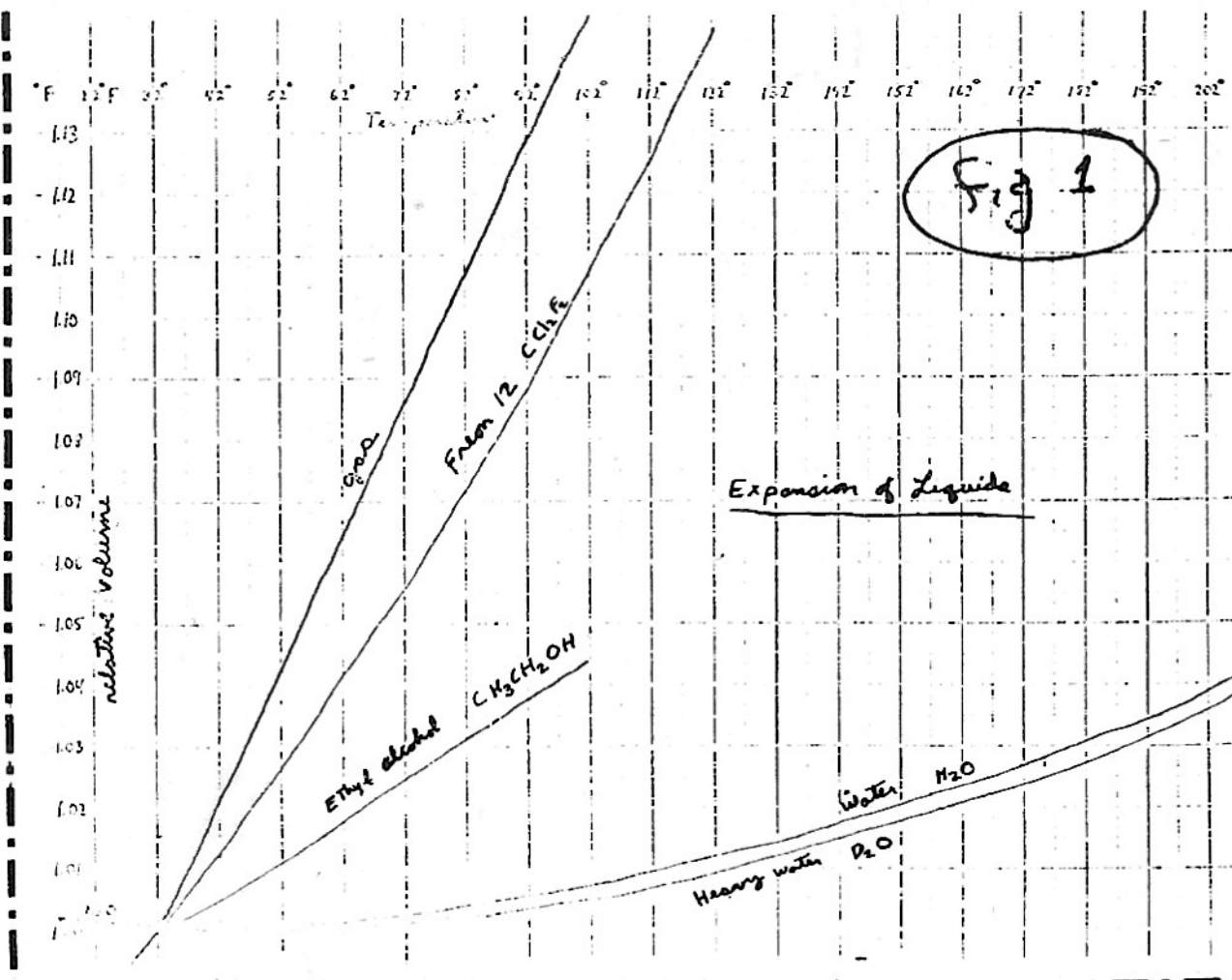


Fig 1

this reverse convection dies because of flow constriction. The slightest failure of this reverse convection causes icing which then further restricts the flow and causes the complete failure. As far as I know no one has experimented with this particular problem. The advantages for such a collector would be great since there would be no heat exchanger and during the day the collector would deliver heat to the tank at its own temperature rather than at a lower temperature which is always the case if the heat must flow through an exchanger. A disadvantage to such a system would be the drain of heat during the night from the storage tank to maintain the temperature near 39 degrees F. This would not be a serious problem in many climates that have only occasional heavy frosts.

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