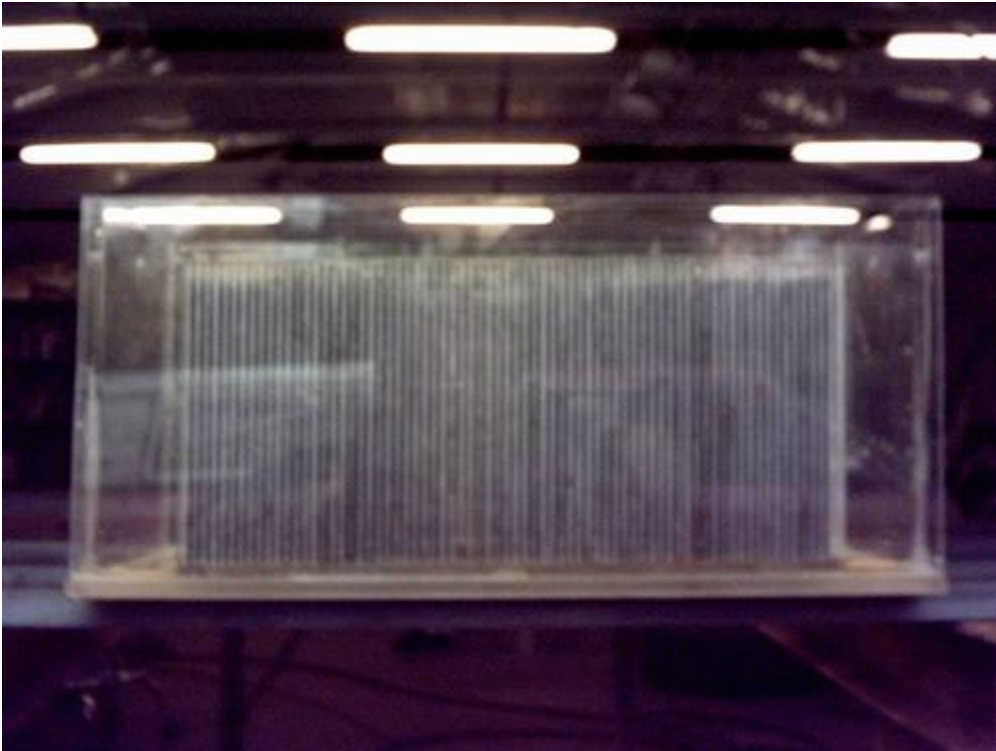


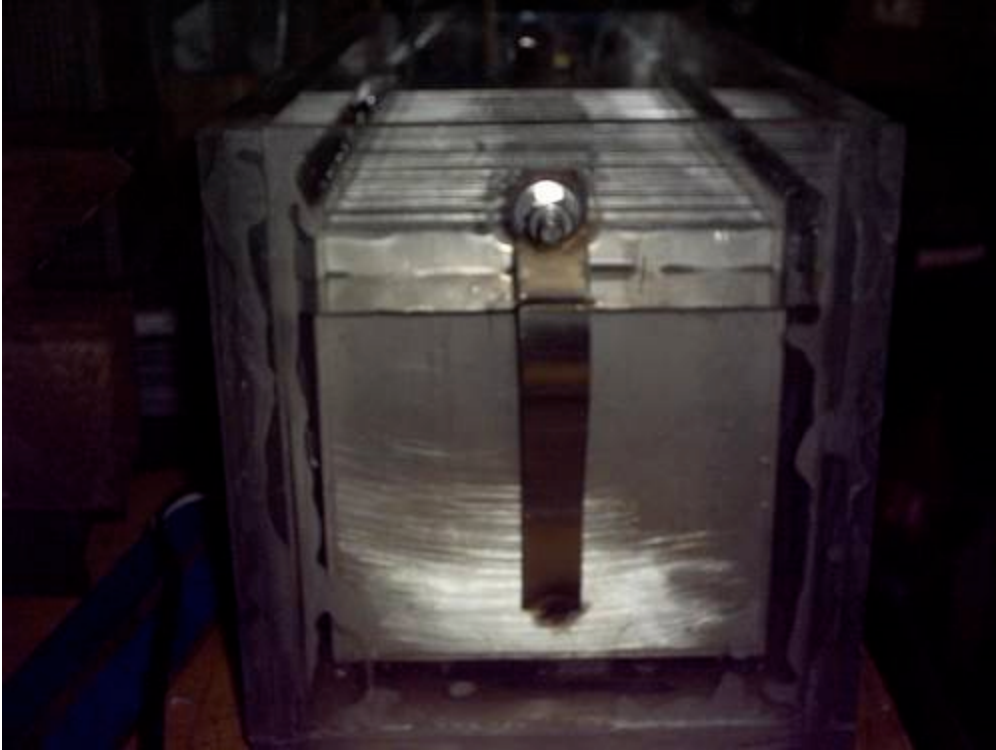
70 series cell hydroxy gas generator prototype



Front view of unit. This unit was designed to operate off of 120 VAC wall current, or a 120 VAC inverter for DC operation.

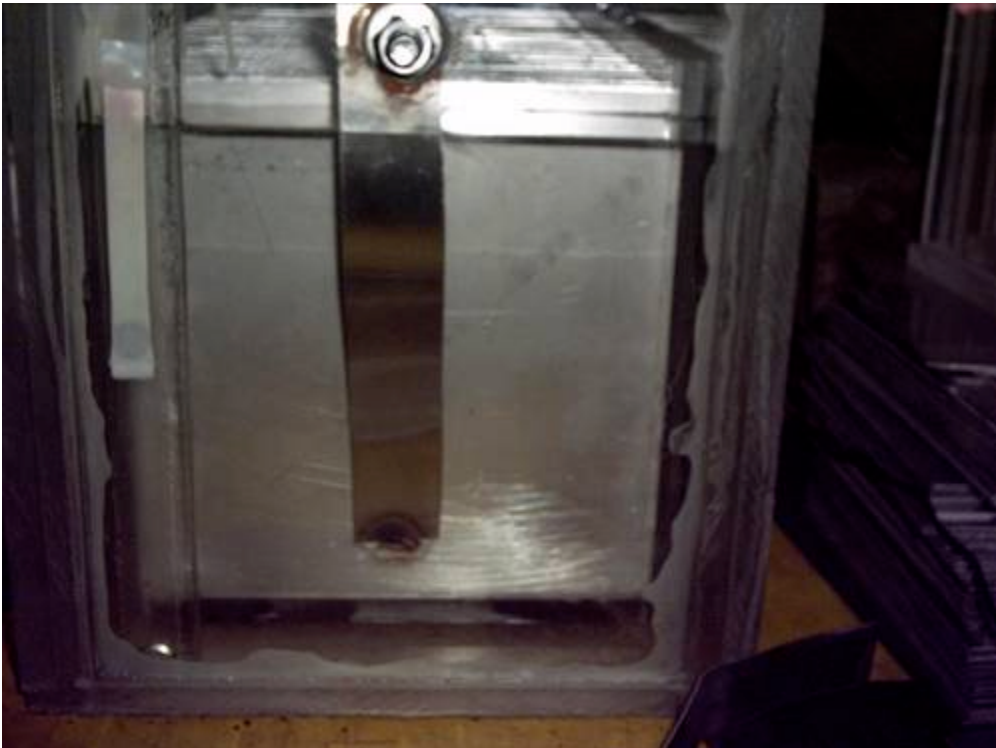
The housing is 3/8" Plexiglas with 3/8" slotted Plexiglas inserts to hold the plates properly spaced at 1/8" apart. Plates are 6" X 6" 304 grade stainless steel.

This unit was filled with plates, filled with distilled water, then vacuum tested for leaks. The unit was drained to lighten it enough to move it into better light to take this picture.



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End view, prior to testing.



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View of the level sensor end prior to testing.



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Unit filled with plates and highly diluted electrolyte prior to preliminary testing.



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View of the unit in preliminary testing.

The electrolyte consisted of a very dilute solution of NaOH in distilled water. Operation time was too short to allow electrolyte temperature to stabilize at optimum efficiency.

Power applied was 142.5 VDC @ 6.02 Amps, and hydroxy gas output was 6.7 LPM (Liters Per Minute).

This works out to about 150% Faraday efficiency, even in this configuration.



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Top view of the housing showing the slotted inserts. What looks like dirt on the bottom is tears in the protective paper still on the outside of the bottom plexiglass.

This is after preliminary testing was finished. The unit was disassembled, and the housing was cleaned and machined in preparation for final assembly.



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Front view of the housing with plates removed.

This is after preliminary testing was finished. The unit was disassembled, and the housing was cleaned and machined in preparation for final assembly.