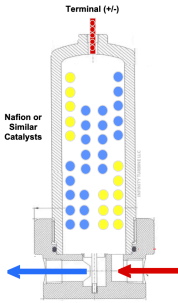


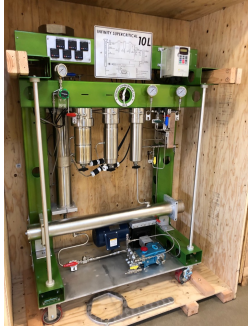
# Infinity Turbine: Gas To Liquids Experimental Platform

## CO2 Gas to Liquids Modular Processor



The heart of the system is the modular processor. This component can be numbered up or scaled up for production.

## Completed Gas to Liquids Experimental Platform



Infinity offers completed experimental CO2 system carts which fit through any standard door, elevator, or hallway.

## CO2 to Alcohol Experimental Developer Platform Processor

The purpose of this platform is to provide experimentation and development of novel gas to liquids (GTL) technologies for the utilization and mitigation of carbon dioxide.

Infinity is now providing experimental platforms for developing modular cart mounted GTL (gas to liquids) fuel processing from CO2. Using Nafion or similar catalysts (available in sheets, tubes, pellets, and more), the inputs are CO2, water, and electricity to make alcohol (ethanol, methanol, and butanol). The selectivity of the output will depend on your formula for the inputs and catalyst.

The Infinity GTL Processor allows you to adjust the flow of CO2, water, and electricity. The platform also allows you to incorporate and modulate in-situ power production, static electricity generation (SEG), and other unique functions.

The processor platform is available in a completed cart, or parts (kit form) for developers who want to configure their own system.

## CO2 and Water Cavitation and Sonochemistry



Experiments with cavitation and sonochemistry can be added for functionality.

## CO2 Gas to Liquids Processor Kits for Custom Configuration



Infinity offers processor kits without the functionality of a completed system cart for developers who wish to build systems.

### CONCEPT

The concept of a modular GTL processor is to provide a rapid configurable platform to perform experiments and development to advance gas to liquids processing.

This is accomplished by providing a standard catalyst module which can be easily adjusted (mechanically and flow).

The functionality is further enhanced by optional add-ons to incorporate in-situ power production and catalyst tuning using static electricity.

The platform is bolted together with standardized fasteners and can easily be modified.

### PARAMETERS

Catalyst: Nafion and other catalysts can be tested or developed for best output.

Electricity: Volts, amps, and frequency can be adjusted for production tuning.

CO2 and Water: Flow, pressure, and temperature can be adjusted.

Rotational Device: Cavitation and other devices can be incorporated into the system.

Instrumentation: Sensors allow real-time processor monitoring and data capture.

### ADVANTAGES

The biggest advantage of a modular processor platform is time savings from a standardized configuration which allows the user to implement rapid changes on the fly.

Components are accessible and the stainless steel tubing can easily be cleaned.

Instrumentation can be extended to wireless monitoring using a smartphone or tablet.

The system can be configured to run remotely.

The caster mounted cart is made from heavy duty powder coated beam construction.