HYDROGEN MINER ® **GROW**



"Pure Oxygen, A Compendium to Biochar"

Hydrogen Miner ® GROW

Virgin Oxygen can be produced from water, reducing HEPA filtration requirements in grow boxes, green houses and in Agriculture.

EMARENA

8770 W BRYN MAWR AVE

Hydrogen Miner Offering:

Hydrogen Miner machines should find utility in Agriculture where Oxygen deficiency is a concern.

Resistance Adjustments and Chemical Resistivity:
Resistance parameters of each cell may be adjusted to optimize performance. Each
Hydrogen Miner is optimized for third party variable power inputs from 5 to 50 volts. The machine
has been optimized for use with Sodium Hydroxide in an aqueous solution at 5% for 1Volt/Amp.
Expansion of preformance may be achieved by way of varying the chemical resistivity by increasing electrode distance or modifying solute concentration. A single unit may be used or an array may be assembled for increased production.

Set Up and Performance:

Modest to mid range production of gas has been achieved at half a liter per minute of Hydrogen and quarter liter per minute of Oxygen per cell. Increased performance is achieved by optimizing setup as pertains to your particular application. Calibration of the cells starts with submersion of the electrode within cell chambers. Once the submersion depth of the electrode is set, the concentration of solute may be varied to effect resistance. Once electrodes have been consumed they may be replaced. This performance feature sets Hydrogen Miner apart from parallel plate systems.

Ditch the Wax Lamp for Hydrogen Miner ® Bubble Performance:

Hydrogen Miner was envisioned as a test bed for optimizing gas production for competitive grow conditions. Consider one design competition and sharing amongst your local grow community. Your grow conditions are private, so keep them up to date. Regardless, Oxygen may pe added for improved performance without tanks or concentrators. Now Formulate your path for Hydrogen collection while watching your hypnotic gas bubbles.

Requirements and Standard Setup [not included]:

- Gas filtration to remove NaOH aerosol.
- Gas compression systems, bellows or tent systems for Hydrogen and Oxygen.
- Protective containment for single or multiple machines.
- An isolated electrical box and variable voltage supplies of 5-50 Volts, 1A/V.
- Distilled water and Sodium Hydroxide for optimal starting performance.
- A basic filtration systems for electrolyte if needed.
- As per industrial code: Electrician and industrial gas or plumbing specialist may be required.



HYDROGEN MINER SINGLE CELL

Fee Schedule 2024:

15,500\$USD

:: Hydrogen Miner Cell Purchase (pre-order only) :: Hydrogen Miner [Unbranded] Monthly Rental, 12 month minimum. :: Hydrogen Miner Setup cost per hour. 2,000\$USD

500\$USD/Hr

At Cost\$:: Incidentals. At Cost\$:: Transport.

:: Compact Shipping container for machine installation. At Cost\$

Scientific Research Options:

500\$ per hour.