



## HYDROGEN MINER DIY KIT

Hydrogen Miner as a school of thought, purify Hydrogen and Oxygen. Acquire most of the hardware parts as a KIT for assembly.

**Hydrogen Miner DIY KIT Product Offering :** Emarena is honored to offer a DIY KIT to the Gas producing enthusiast. Most KIT components are finished and assembled in the USA and provide either a partial or complete means to create your own U-Tube inspired cell. Color of non stock KIT components is batch variable and upon request.

**Seals :** The first generation Seals are hand poured using a two part silicon rubber. This silicon has reduced reactivity to Hydrogen, Chlorine and Oxygen to extend service life. These seals are high quality, robust and over-engineered.

**Caps :** Three dimensionally printed caps are light weight and used to protect the seals. The caps can also be used to clamp down the cap to the electrode chamber by wire. The purpose of one set of clamps is as a mechanical stop for an electrode clamp to sit, setting the height of the electrode. If pressure above 1 PSI is required, caps will need to be wired to the cell.

**Harness :** A harness is comprised of welding whip wire with modified copper terminals. The harness electrical cable is covered with a braided sheath. The harness may be secured to an electrode clamp directly.

**Electrode Clamps :** One set of clamps is sand blasted, cleaned and Cerakote coated for high temp service life. Made of mild steel at least one set of clamps is lined with silver resin to improve dimensional conductivity around into the electrode.

**Electrode Height Clamps :** One duplicate set of clamps is included for variable height cell mounting to a structural member such as a piece of wood, fabricated backboard or assembly. They may also be used as Electrode clamps.

**Hardware :** Hardware is sourced as Marine capable so as to reduce chemical reactivity.

### Hydrogen Miner KIT 001 :

- Silicon Seals (2)
- 3D printed Seal Caps (2).

### Hydrogen Miner KIT 002:

- Hydrogen Miner KIT 001 +
- One electrical harness; A set of electrical cables one 60 Amp plug.
- One inch steel electronic electrode clamps for harness. (2)
- One set of electrode set clamps. (2)

### Hydrogen Miner KIT 003:

- Hydrogen Miner KIT 001 +
- Hydrogen Miner KIT 002 +
- Wood Fixtures - Marine capable with hex bolt plugs and silicone O-rings for woodworking.
- Three multi part metal cell clamps. (3)

*No included in any KIT - PVC for assembling the cells - structural backboard - power supply*

#### Price

|           |    |                    |
|-----------|----|--------------------|
| 1200\$USD | :: | DIY KIT 001        |
| 1700\$USD | :: | DIY KIT 002        |
| 3900\$USD | :: | DIY KIT 003        |
| At Cost\$ | :: | Incidentals.       |
| At Cost\$ | :: | Transport/Shipping |

#### Technical Support and Direction:

500\$ per hour.