HYDROGEN MINER® TORCH

by EMARENA



"Hydrogen Blue Flame"

Hydrogen Miner ® TORCH ::

TORCH series offers flexible gas productivity through electrolysis and recombination for use in variable Oxy-Hydrogen applications.

8770 W BRYN MAWR AVE

Hydrogen Miner Basics:

Hydrogen Miner is designed for ease of use, reduce maintenance and optimized for extended service life. Hydrogen Miner machines consisting of multiple cells are ideal for separating Oxygen and Hydrogen and can provide a rudimentary Oxy-Hydrogen fuel system for use with a miniature, low pressure low flow torches.

Reduced Chemical Footprint:

Hydrogen offers reduced chemical footprint where reduction in Carbon Monoxide, Carbon Dioxide, Nitrogen Dioxide and other petroleum product combustion is desired. The byproduct of Hydrogen combustion is water and yet can be used in open flame and torch applications requiring 500-2,600 Celsius.

Advantages of Oxygen and Hydrogen Gas in Combustion:

Electrolysis of Water using Hydrogen Miner offers an advantage over an HHO Electrolysis product through separated gas that can be used in combinatory combustion. The flexibility of an Oxy-Hydrogen flame arises from balance of separated gasses through a valve so as to regulate the Oxygen and Hydrogen ratio in combustion. Hydrogen Miner has been successfully equipped with manifold, hosing and filtration devices [that constitute options and extras at variable cost] for Oxy-Hydrogen Combustion. Oxy-Hydrogen Combustion with Hydrogen Miner has been used successfully in house for electronics fabrication, stained glass assemblies, solder, welding, brazing, jewelry fabrication to name a few.

Requirements for Standard Setup:

- Mini torch applications with low pressure and short thermal run oftentimes de-necessitate gas storage.
- Three Cells are suggested for a #3 tip (0.15mm orifice) torch for semi-continuous use.
- Gas storage and pressurization systems are an optional upgrade and subject to availability.
- Protective containment for cells is suggested as a room, cubicle, container or shield.
- An isolated electrical box for AC and DC supplies.
- A 40 Amp 12 Volt Output 120 Volt Demonstration unit is included and requires simple setup.
- Variable DC voltage supply of 5-50 Volts, 1A/V for complex systems is optional.
- A 120 Volt Electrical Source is required.
- As per civil code: In house electricians, industrial gas or plumbing specialists may be required.



HYDROGEN MINER SINGLE CELL

Fee Schedule 2025:

:: Hydrogen Miner TORCH cost per single cell (pre-order only starting 01.01.2025); :: Hydrogen Miner [unbranded] monthly rental, 12 month minimum. 15,500\$USD

2.000\$USD

500\$USD/Hr :: Hydrogen Miner setup cost per hour. At Cost\$:: Incidentals and transportation/shipping.

Scientific / Research:

500\$ per hour.

Maintenance, Upgrades and Options:

At Cost. Stainless Steel, Copper, Platinum or Aluminum Electrodes (1 inch diameter).

At Cost. Custom non-reactive seals and compatible adhesive. At Cost. Refurbishing, repair or modification of Hydrogen Miner.

WARRANTY: NO WARRANTY OR CLAIM OF WARRANTY, PRICES MAY CHANGE WITHOUT NOTICE