



**MATERIALS**

**Outer casing:** It is made of steel or cast iron, which provides strength and durability to the equipment.

**Gas burner:** Stainless steel heat resistant material.

**Grille:** It is made of a heat-conducting material, wrought iron

**Drip Tray:** Captures liquid particles and food, protecting the burner and gas lines from contamination.

**Coupling systems for HHO gas:** Austenitic Steel, Natural rubber gaskets, stainless steel screws and lock nuts

**DESCRIPTION**

The heat transfer system based on oxyhydrogen gases for thermal accumulation units operates based on the W Electrolyzer as an intelligent system designed to control and stabilize the electrochemical reaction. This device operates through the principle of electrolysis to decompose the liquid water molecule into hydrogen and oxygen (HHO) in a gaseous state.

**CHARACTERISTICS**

**High Temperature Flame Generation:** The oxyhydrogen torch produces a high temperature flame that can reach up to 2800 degrees Celsius, making it suitable for applications that require intense heat, such as welding and metal cutting.

**Precise Flame Control:** It incorporates a control system that allows the intensity and size of the flame to be adjusted according to the specific needs of the application, providing optimal performance and greater precision in the work.

**Built-in Safety:** Designed with safety features including shut-off valves and flashback prevention devices to ensure safe and reliable operation.

**Portability and Manageability:** Its compact and ergonomic design makes it easy to handle and transport, making it suitable for both industrial workshop applications and field work.

**Energy Efficiency:** It uses oxygen and hydrogen gases as fuel, making it more efficient in terms of energy consumption and emissions compared to torches that use fossil fuels.

**Preventions: Education and Training:** It is essential to provide adequate training to personnel on the safe and correct use of the oxyhydrogen torch, including the handling of flammable gases and the necessary safety measures. **Inspection of Connections:** Before each use, verify that all connections are correctly tightened and do not present gas leaks.

✓ **Regular maintenance:** Only the manufacturer can carry out regular maintenance to ensure optimal operation and extend the life of the device. This may include cleaning components, and checking electrical connections.

The oxyhydrogen torch is a versatile and efficient tool that provides a high temperature heat source for a variety of industrial and manufacturing applications. However, its use requires caution and attention to recommended safety measures to ensure safe and effective operation.

**CONTROL AND MANAGEMENT MEASURES**

✓ **Regular maintenance:** Only the manufacturer can carry out regular maintenance to ensure optimal operation and extend the life of the device. This may include cleaning components, and checking electrical connections.

**PRODUCT SPECIFICATION**

POWER	1440W max
Input	12 VDC - 110VA - 220VAC
Electrical Energy Consumption	0.50 kWh
Nominal Pressure	210 a 2490 mBar

**PRODUCTION AND CONSUMPTION**

Production capacity:	576 Lt/Hr Hr of HHO		
Heat capacity:	126.000 BTU		
Burner Temperature:	300°F to 1.100°F		
Water consumption:	[3 Litro = 10 Horas]		
Operation type:	Continuous		
Intermittent duty cycle:	Configurable		
Approximate weight:	51kg = 99 lbs		
Max. Internal Temperature Operation	80°C = 176°F = 353.15°K		
Years of service:	8 years		
Minimum Pressure	6 psi	Max. pressure	20 psi

**GENERATOR COMPONENTS:**

<b>External Structure:</b>	Stainless Steel Resistant Structure
<b>Reactor</b>	Internal HHO Generating System
<b>Power Wire</b>	NEMA 3 PINS
<b>Detachable Cord</b>	18AWG 6A 250V
<b>Approximate weight:</b>	17kg = 33,06 lb
<b>Security system</b>	<b>Flashback Arrestor System</b>
<b>Leak Sensor</b>	HHO SENSOR
<b>Max. Temperature Op.</b>	80°C = 176°F = 353.15°K
<b>Catalyst:</b>	KOH at 99% -> 3,7% of the electrolyte

AC RATING:		DC RATING:	
Min Voltage (V):	108 V	Min Voltage (V):	11 V
Max Voltage (V):	120 V	Max Voltage (V):	13,7V
Max Current (A):	5A	Max Current (A):	60 A
Min Freq. (Hz):	55 Hz	Number of Feeds:	4
Max Freq. (Hz):	63Hz		

**APPLICATIONS**

- ✓ Energy source for thermal transfer system for storage units, reducing operating costs and polluting gas emissions.
- ✓ System suitable for water heaters in domestic spaces.

**OPERATION MODE**

Mode of operation of the Electrolyzer W electrochemical reactor, connection to a 110V or 12V 400 Watt electrical source or network must be guaranteed, add 1 liter of water to the reactor admission tank with a KOH99% catalyst at a concentration of 3.7 %. Subsequently, turn on the reactor switch to turn on the system and begin oxyhydrogen generation. FLARE type connection, an internal volumetric capacity of 6.4cm<sup>3</sup>. The burner has a manual ignition system with electronic control contains 6 independent HHO gas outlets for burning HHO gas.