

**THE IDEAL SOLUTION**

- Quick clean welding, soldering and brazing
- Reduce heavy oxidation on parts
- Safe - eliminates dangerous gas storage and costly gas lines
- Friendly, simple and reliable to operate
- Infinite control - concentrated heat is localized to a small area
- Variety of flame settings and sizes



**HO-100**



**HO-200**



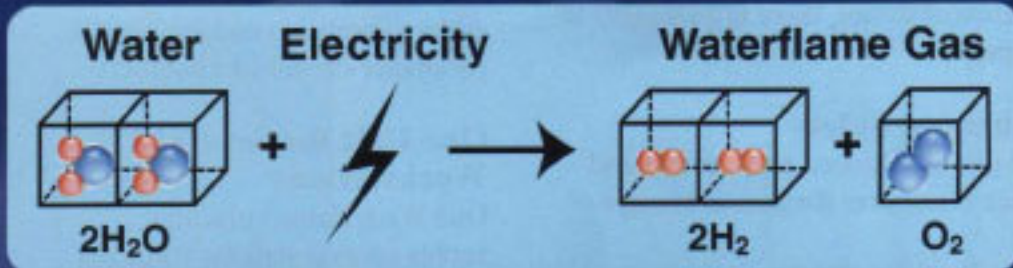
**HO-300**



**HO-500**



**Jewelry**



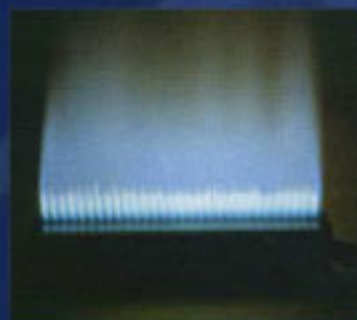
**Wire Soldering**



**Metal Cutting**



**Welding & Soldering**



**Surface Cleaning**



**Glass Fusion**



**Acrylic Polishing**



**Dental Application**



**The WATERFLAME®** is an on site industrial machine that uses electricity to produce pure hydrogen and oxygen gas from water. This mixed gas can be used as fuel, to provide clean hot burning neutral micro-flame, with temperatures up to 3000° C. The torch tip is in the form of a hypodermic needle. Boric acid can be added to the Methyl alcohol to act as a gas flux to keep parts clean.

## Advantages

### Cost Effective Gas

The cost of gas is significantly lower than the cost of bottled gas. The gas production requires only water and electricity.

### Better Working Environment

The flame does not pollute the environment, as the product of the combustion is water vapor. With a total absence of fumes, there is no danger to the public.

### Enhanced Safety

The gas is produced only on demand which eliminates dangerous storage of gas.

### Increased Operational Independence

This portable machine immediately produces gas on demand.

Continuous 24-hour service can be delivered with very little operator supervision. It eliminates the inconvenience of running out of bottled gas.

### Eliminated Gas Tank Storage

Unlike bottled gas, the machine does not require a storage tank as it takes up minimal space.

### Infinite Control

The torch is easily maneuverable in areas impossible to be reach with conventional torches.

### Improved Process

The reducing of heavy oxidation and residue on parts, improves the process of cleaning and increases quality.

Technical Data		HO-100	HO-200	HO-300	HO-500
Gas Production		200 lit/hr	400 lit/hr	1200 lit/hr	2000 lit/hr
Operating Pressure		0.5 - 1.0 Bar	0.5 - 1.0 Bar	0.5 - 1.5 Bar	0.5 - 1.5 Bar
Supply Voltage		200 - 240	200 - 240	200 - 240	200 - 240
Nominal Frequency		50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power Consumption		425 - 500 Watt	850 - 1000 Watt	2500 - 3000 Watt	3500 - 4000 Watt
Type of Water		Clean water	Clean water	Clean water	Clean water
The number of	#G18-20	1 Torch	2 Torches	6 Torches	8 - 10 Torches
Torches used for	#G77-24	2 Torch	4 Torches	8 - 10 Torches	20 Torches
Welding & soldering	#G24-26	3 Torch	6 Torches	12 Torches	26 Torches
Size (w x d x h)		30 x 35 x 50 cm.	30 x 50 x 33.5 cm.	54 x 80 x 75 cm.	54 x 72 x 120 cm.
Weight (kg.)		24 kg.	38 kg.	120 kg.	175 kg.



ECONOMY



SAFETY



STORAGE



RELIABILITY



ENVIRONMENT

## Feature

### Display Status

The front panel contains status indicators, status display and water level indications. It display the system operation and the critical parameter on out-of-condition.

### One Unit for Several Workstations

One Waterflame® machine serves several stations while the pressure regulation system automatically stabilizes the gas pressure.

### Safety Standard

The system includes a disposable flame flashback arrester. The torch handle is also assembled with flame flashback protection. The booster is designed to extinguish flame flashback. To enhance safety, all components are made of high quality material and tested for explosive resistibility.

### Variety of Flame Settings

The torch produces a perfectly controlled stable flame, hot enough to weld and solder metal, glass and ceramics, with a thread-thin flame of up to 3000° C.

## Service and Maintenance

The WATERFLAME® machine is designed to reduce service and maintenance requirements. Maintenance is limited to the regular exchange of the electrolyte, depending on intensity of generation.

To meet your special requirements, the company's engineering team is available to assist in customizing your needs worldwide. Please feel free to contact us to order your clean and economical energy.

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