

Introducing the Clean Flame 150  
For Precision Soldering Results  
Unlike Anything You've Seen Before...



Just Add Water.

*Pour, Ignite, Work.*

# That's right, water.



**I**ntroducing the CLEAN FLAME 150! A revolutionary new hydrogen/oxygen generator that produces a 6000°F flame from distilled water—just pour it in, turn it on, and watch the flame turn even the most challenging soldering jobs into works of art.

Joins precious and non-precious alloys at an operating cost of just pennies per hour. Ideal for welding, brazing, soldering, drilling, cutting, polishing, and annealing for metals, ceramics, glass, wax, and plastics.

Safe, clean, and precise for industrial use, R&D labs or office.

Easy to use.



*Connect up to 8 workstations for multiple operators on one machine.*



*Clean Flame 150 Workmate*

## Accessories



## INDUSTRIES

Airline  
Dental Labs  
Dentists  
Electro-Mechanical  
Electronics  
Glass  
Instruments  
Investment Casting  
Jewelry  
Laboratories  
Maintenance  
Military  
Optics  
Plastics  
Schools, Universities  
Tool Makers

## APPLICATIONS

Brazing  
Cable Stripping  
Ceramics  
Die Casting  
Drilling  
Fusion Welding  
Hermetic Sealing  
Polishing Glass & Plastic  
Quartz Weldments  
Silver Soldering  
Soft Soldering  
Thermocouples and RTD's  
Wax Welding  
Weld Glass  
Wire to Wire  
Wires to Coupling

## SPECIFICATIONS

### Gas Production...

150 l./ft. (5ft.3/hr.)

### Machine Dimensions...

16.25"L x 13.5"H x 10.5"D

### Maximum BTU Output...

3500 BTU/hr.

### Booster Dimensions...

4" dia x 7" H

### Operating Pressure...

10-30 oz./in. (2)

### Alcohol Capacity...

Booster 16 oz.

Fill Chamber 6 oz.

### Torch Tip Orifice...

0.003" - 0.042"

(30 ga. - 16 ga.)

### Alcohol Consumption Rate,

Booster... 1.0 oz./hr.

### CF150 Liquid Capacity...

2.5 - 3.0 qt.

### Water/Alcohol Addition...

Interval 8 hr.

### Input Voltage, 60 cycle AC...

110/120VAC (220V avail.)

### Power Requirements...

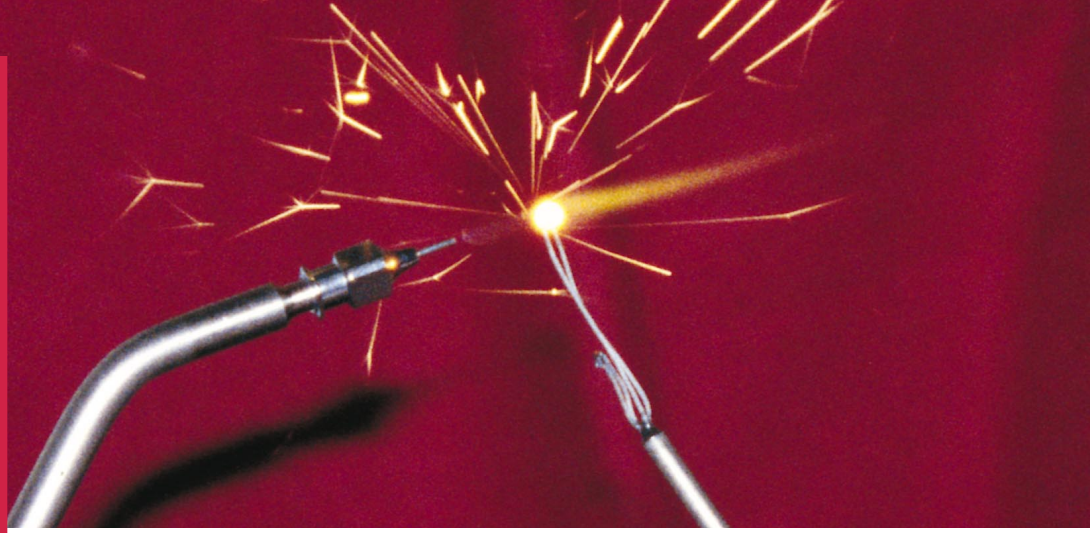
900 Watts

Net Weight 65 lb.

Shipping Weight 75lb.

Other size machines

Available Please Call...



Soldering is the technique used to join metals without heating them to their melting point. A trouble free method is gas delivered by the Clean Flame 150. Gas torches are widely used for industrial applications such as, electronics, plastics, ceramics, precious metals, investment casting, maintenance, laboratories for R & D, Dental, Optical, etc. With all of these applications, it seems obvious that a torch should be as precise as any other tool in these shops. But that's not always the case... until now.

Thanks to the CLEAN FLAME 150, precise, efficient results are at your fingertips with every job—from micro-miniature to standard-size work applications.

**“Amazing,” you say? “Fire from water? But how?” Well, it’s not magic, and it’s simpler than you think. Here’s how it works:**

Distilled water is two parts hydrogen and one part oxygen. With the CLEAN FLAME 150, the water is added to an electrolytic liquid. Combine that with electricity and the water is dissociated into hydrogen/oxygen gas—the “fuel” that gives the torch its unprecedented power. No separate tanks of fuel gases are required.

And just what makes the flame so superior? The CLEAN FLAME 150's 6000°F flame is better than other gas combinations used today because its intensity is focused in the axial direction, making the lateral heat minimal. Because all the heat is out front, there is very little heat generated on the sides. So all the power is where it's supposed to be, in the tip, and minimal energy is lost getting there!

By varying torch tip size and gas pressure, the flame length may be adjusted from .01" to 6" through tips with openings from .003" to .042". With this flexibility, the CLEAN FLAME 150 is especially useful in applications where clean burning and close flame control are needed, and is effective on metal thicknesses ranging from .0005" to .25".

For applications where torch temperatures of less than 6000° are necessary, an alcohol Booster is supplied. The introduction of alcohol vapor lowers flame temperature to 4000-4500°F while increasing heat energy output. The CLEAN FLAME 150 is also easy to use for glass polishing, hole drilling in quartz and ceramics, as well as metal cutting.



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**Introducing Clean Flame 150**

*Clean • Controllable • Precise • Safe*



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**For Complete Details on  
How the Clean Flame 150 will be  
A True Benefit to Your Company  
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What Makes the CLEAN FLAME 150 the Hottest,  
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