

H2eat HHO Burner/ Torch/Cooker Instructions

Fill torch or burner with a tablespoon of water, shake and let the water get inside the torch by shaking it and then draining the water out the hose bid. If the handle ever gets so hot you can handle the torch handle in your hands, that shows that the torch needs water inside the torch, it must have moisture inside the torch or burner. Stop and add a small amount of water. If you put too much water, do not worry it will spit out the nozzle of the torch or burner. If you keep the torch hooked up with the gas hose, all the time the moisture will stay inside and be fine. It is only when you take the torch off the hose and let it sit out, it dries up inside and water will be needed inside to kept the handle cool to touch, all the time you are using the torch or burner. To turn off the torch or burner, simply turn of the power supply and let the flame slowly go out. Sometimes a pop sound can be heard, sometimes nothing. When shutting down, this is when a flash back can occur and run a spark all though the hose to the bubbler and for safety it blows off the hose or causes the hydroxy dryer to pop the filter slightly. Our Torch kits have 4 spark back arrestors for safety. 98% of the time no spark gets past the torch inside spark arrestor material.

How many watts of electric power is needed to run the torch or burner?

How many watts to produce a flame ? (volts x amps) We run our torch and burner from a 12/14volt power supply or battery re-charger. So below is from a 13volt power and the amperage draw.

Torch (1 tip) : 8 amps to 30 amps (at 10 amps a 1/2" visible flame tip in a lighted room) 100 to 390watts
Mini Burner (3 tips) : 15 amps to 50 amps, 200 to 650 watts
Star Burner (5 tips) : 20 amps to 50 amps, 260 to 650 watts
HHO Burner (6 tips) : 30 amps to 60 amps, 400 to 780 watts
Mega Burner (9 tips) : 30 amps to 80 amps, 400 to 1040 watts

We use a 77 cell, 14/7 cell, B2 cell, B4 cell to produce the HHO gas. Watch out at high amps the cells will get warm faster. At the lower setting you can run the torch or burner 24/7. We have been heating the HG shop in the winter months with a HHO torch for about 3 years now. A few flashbacks that only make a popping sound to the dryer filter housing, that is all. We use 4 safety flash back arrestors in pour system. The first one is inside the torch handle and burners. It took a lot of experimenting to get it right.

H2eat HHO Burner Data:

The following charts show the ability of the H2eat HHO Burner to heat water. Tests were run heating room temperature water in a teapot to first indication of boiling as determined by the whistle of the teapot. The following table shows the basic test parameters for each test condition.

H2eat Burner Data Summary

Parameter	HHO 20a x 30 volts	HHO 30a x 30 volts
Slope (Delta T/KWH)	743.3	785.1
Tare Pot (g)	358.17	358.17
Initial Water (g)	1045.7	1045.1
Final Water (g)	1040.8	1040.9
Evap Water (g)	4.9	4.2
Initial (KWH)	0.08	0.03
Final (KWH)	0.29	0.21
Consumed (KWH)	0.21	0.18
Ave Watts	667	909
Initial H2O (F)	54.95	59.45
Final H2O (F)	212.46	210.65
Delta T (F)	157.51	151.2