



SAFETY – DO NOT OPEN THE UPPER WATER TANK CAP WHEN PRESSURE IS IN THE CHAMBER. RELEASE THE PRESSURE FIRST. (PSI reading)
Read the water gauge regularly and Don't let the machine run on empty as it will damage the cells. Change out or clean the tank once every 6 months or after 100 carbon cleans. To keep it at its optimal peak. Waste must then be disposed of in accordance with the Hazardous Waste regulations that apply locally.

Do not open the upper water tank when the machine is switched on. Always turn off the machine and make sure the pressure gauge (psi) is zero. The machine is capable of running for 6 hours at a time. If you wish to use the machine for longer than 6 hours, we recommend you turn off the machine for 20mins. This will allow the cells to cool down.

The KOH solution that is added to the tank is highly corrosive. Extra care should always be taken when handling these chemicals.



CLEANING TIMES OF THE MACHINE

Approximate cleaning times
1 - 2 Litre Engines - 0.25-0.5 Hours
2 - 4 Litre Engines: 0.5-1.5 Hours
4 - 6 Litre Engines: 1.5-2.5 Hours
6 -10 Litre Engines: 2.5-3.5 Hours
10-17 Litre Engines: 2.5-5 Hours

These approximate timings are vehicle dependant. If you think the vehicle needs a longer deeper clean, then you can keep the machine running for longer. E.g for a deep clean detox for a DPF you may need 30-45 mins extra than times stated. Using a carbon cleaning machine for long periods of times does NOT damage the engine!
Its very safe! FACT!



HYDRO TECH 8000



OUR CARBON CLEANER

The kit will include everything you need to operate the machine apart from the deionised/distilled water, which you will need to buy. This carbon cleaner requires a special KOH solution mix that must be in the top tank of the machine. This is for the machine to produce pure hydrogen for the carbon cleaning process. This solution can be made by mixing the KOH crystals with distilled or de-ionised water. Please take time and read instructions carefully. It is an alkaline solution and highly corrosive. You can buy our special blend of KOH mix on our website or ebay store.

TIP: With twin intake engines, use a T-piece splitter on the hose, so now you can put one hose in each air intake!

GENERAL USE

- Before operating the machine it is important that you read, fully understand and observe the instructions and safety advice.
- Careless or improper use of the machine may cause serious injury. The user is responsible for any accidents involving other people or other people's property. Never let persons who are not familiar with the operating instructions use this equipment.
- Keep the instructions in a safe place for future use.



OPERATING INSTRUCTIONS

Distilled/deionised water will need to be mixed with approx 500g of KOH. **Note: DO NOT USE NORMAL TAP WATER AS THIS CAN DAMAGE THE CELLS.**

1. Use the funnel provided and pour in distilled/deionised water into the top tank of the machine until water gauge at the front is slightly less than full. Don't fill to the top as you may need to dilute the solution if it's too strong.
2. Add approx 500g of KOH crystals into the top tank.
3. Close the tank cap. Now unscrew the chrome metal bottle type canister on the front and pour 1/4 of it with plain distilled/deionised water. This is a filter for the gas. (Before each clean check this canister, if the water level is higher than a 1/4, tip it out and replace back to normal level). Attach the clear hose supplied to the right of the canister by unscrewing the securing cap. The flashback resistor (red) on the pipe will show you the direction of the gas flow.
4. Also attach the nozzle gun to the other end. This will allow you to adjust the gas flow. 4. Now you can turn on the machine. At the end of the hose where the nozzle gun is attached, make sure the tap is fully opened. Now read the amp meter it should show between 100-199 amps. Anything between this range means it's producing a perfect amount of hydrogen. When you first turn on the machine and it reads below 100 amps don't worry just give it some time to slowly go up. If the nozzle gun is fully closed, you will see the PSI gauge rise up to 20. This shows it's creating hydrogen in the tanks. If you keep it closed all the way up to 20PSI, the machine will then shut down. Soon as you open the tap on the nozzle gun the pressure will drop and the machine will start up again. This is a safety feature. The PSI will also go up if there is a blockage in the hose that is attached to the intake pipe of the car, which will mean you will have to release the blockage so the machine can function normally.

Over time the PSI gauge will sit below 10psi which is completely normal. On the first few uses the PSI gauge may show 0 psi. Again this is normal.

5. Once it has reached its 100-199amps, the machine is now ready and you will start to hear gas coming out from the nozzle gun. You may now turn off the machine to complete the next step.
6. Locate the air filter You will then have to loosen or un-bolt the clasp/circlip that attaches the air filter mid section to the engine. You will then be able to slip in the nozzle gun into a gap and then secure back on the intake pipe much as possible. The nozzle gun or hose will have to sit after the MAF/Air sensor. Not to worry if there is a gap but the direction of the nozzle gun will have to point away from the air filter (blue line).
7. Now switch on the engine (engine has to be optimal running temperature). Then you can switch on the machine.

ENGINE HAS TO BE RUNNING AT ALL TIMES WHEN THE MACHINE IS RUNNING. When you have finished, turn off the machine first and wait 5 mins before you turn off the engine.

CLEANING TIMES OF MACHINE ON REVERSE!

