



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 - 40 Mins

2 - 4 Litre Engines: 60 Mins

4 - 8 Litre Engines: 75 Mins

8 -20 Litre Engines: 90-180 Mins

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. For best results keep engine running and use a **brake pedal pusher** to keep RPM at a certain rev range.

You will also be able to Carbon Clean and use our PureFlow DPF Cleaner at the same time.

Both EGR and DPF may need a forced regeneration from code scanner after the cleaning process. If your not using our PureFlow DPF Cleaner

### TOOLS NEEDED:

Basic tool set (Screwdrivers and socket set) We highly recommended a Diagnostic code scanner that has DPF regen capability. This will also help you to do a before and after of results. But more importantly limit liability before you touch your customers car. You don't want them to blame you for codes that was already there before you started. To be fully mobile you can use a 1000W min inverter or generator.  
HYDROTECH 7000 CARBON CLEANER.



# HYDRO TECH 7000



# 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

Deionised water will need to be mixed with One packet of KOH crystals. 1 Pack = 20-40 cleans.

**Note: DO NOT USE NORMAL TAP WATER AS THIS CAN DAMAGE THE CELLS.**

1. Use the funnel provided and empty the whole contents of one black packet of KOH crystals into the top tank (black cap).
2. 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.
3. Close the tank cap. Now unscrew the chrome metal bottle type canister on the side and pour 1/4 of it with plain 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- if there is water in the hose when machine is running its because the chrome bottle is full of water.) Attach the clear hose supplied to the right of the canister by unscrewing the securing cap. Also attach the nozzle gun to the other end. This will allow you to adjust the gas flow. However using this nozzle gun is optional.
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. After a few minutes the amp meter should read between 8-15 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 6 amps don't worry just give it some time to slowly go up. The Volts gauge will read between 19-30. The PSI gauge will mostly sit at 0psi during your cleans, so don't worry if you don't see this going up when using the machine. The job of this gauge is to let you know of any blockages in the hose that will restrict the gas. If the nozzle gun is fully closed, you will see the PSI gauge rise up to 20. This shows its creating hydrogen and pressurising 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. Never open the top tank or chrome bottle when there is pressure showing. As its highly pressured and can cause damage if opened.

5. Let the machine run for 2 minutes before connecting it to the car. After this warm up stage it would of reached 8-15amps, the machine is now ready and you will start to hear gas coming out from the nozzle gun. If you see water in the hose or water coming out of the end of the nozzle gun this means the chrome bottle is too full. (empty this and replace back to 1/4). Only gas should come out! But seeing condensation in the hose is normal.
6. Now switch on the engine (engine has to be optimal running temperature). 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 or just the hose (Using the nozzle gun is optional) 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

**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!**

