



Sykes-Pickavant[®]
Specialist Tool Solutions



CARBON TEC HHO
53400300

USER INSTRUCTIONS

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Introduction

Thank you for purchasing the Sykes-Pickavant Carbon Tec HHO Machine. Before using the machine for the first time, please read this manual thoroughly and follow the instructions carefully.

This machine is designed to apply hydrogen into a combustion engine's air inlet system. When ingested into a running engine, the hydrogen gently loosens internal carbon deposits which can prevent efficient engine operation. The loosened deposits pass through the engine and exhaust pipe, leaving behind a cleaner, more efficient engine.

You should allow 30 – 60 minutes per operation for optimum results.

Guarantee

This machine is guaranteed against faulty manufacture for a period of 2 years from the date of purchase. Please retain your receipt for proof of purchase. Faulty goods should be returned to their place of purchase.

This guarantee is invalid if the machine has been abused or tampered with in any way, or if it has not been used for the purpose for which it was intended.

This guarantee does not affect your statutory rights.



Safety Precautions

ATTENTION: Hydrogen can be explosive. Do not smoke or use naked flames near the machine

Only use in a well-ventilated area

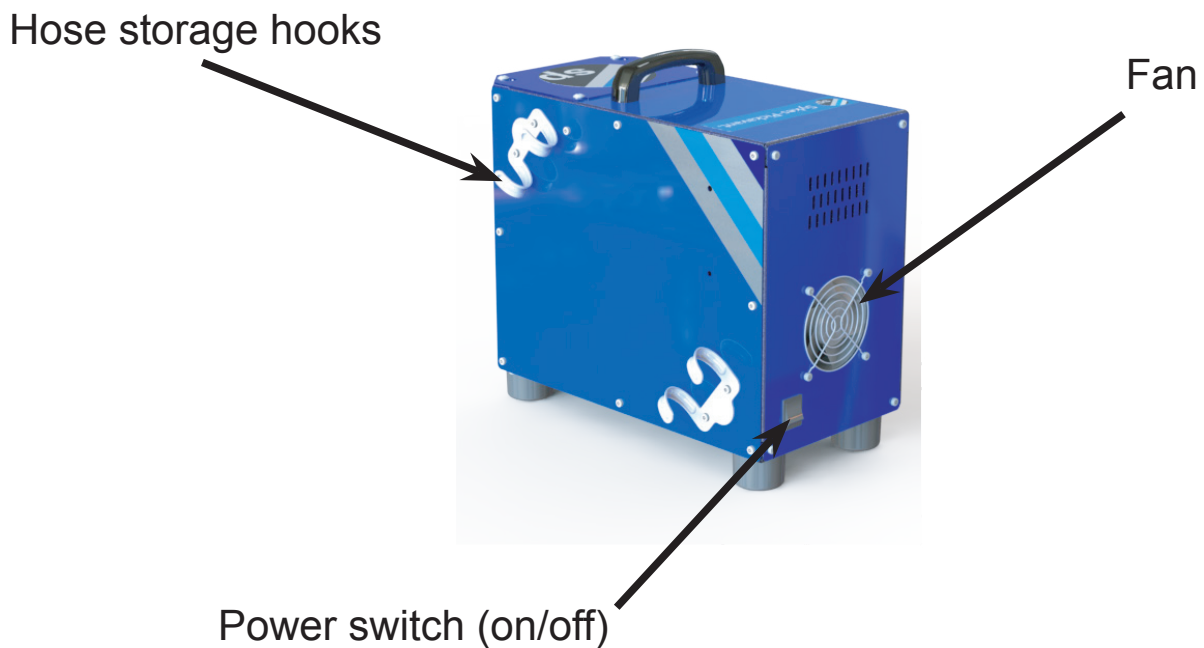
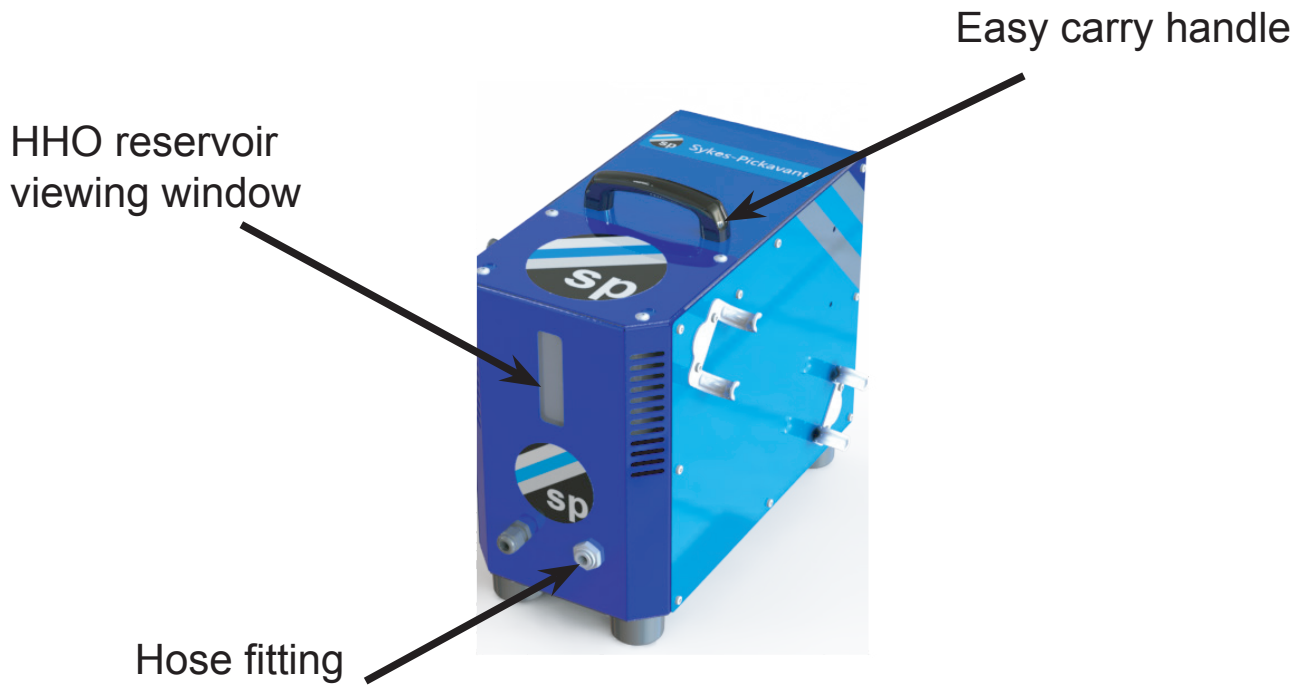
Machine must be connected to a 12V battery - never use a mains battery charger or battery support unit, as the AC power output may damage the machine. This will not be covered under warranty and subsequent repair costs will be charged.

Vehicle checks before use:

- Check there are no serious engine faults - if present, repair before using the machine
- Check no error codes are present - if present, clear them before use
- Check vehicle oil and coolant levels are correct



Hydrogen Cleaning Machine Diagram





Preparation & Operating Instructions

Before first use: Please note that when you take the machine out of the box, the machine will be blanked off (to remove this plug, use the tool provided) to ensure that no fluid has been lost during transit. On first use, a small amount of electrolyte may be discharged from the fitting when the blanking plug is removed – this should be captured and disposed of as a mild alkali solution. The hose can then be plugged into the machine.

1. Start the vehicle to be treated and idle the car until the engine reaches operational temperature. Make sure all engine loads (e.g. lights, air conditioning etc.) have been switched off.
2. Park the vehicle either outside, or with the exhaust positioned towards the outside of a workshop, and make sure the area is well-ventilated. This is to ensure that any released exhaust emissions do not enter the building, or use exhaust extraction.
3. Turn off the car before connecting the cleaning machine to the battery. Place the machine on dry, level ground and, if using outdoors, ensure it is protected from any rainfall. Ensure the power switch on the machine is set to the 'off' position.





4. Access the vehicle battery and connect the crocodile clips on the machine onto the battery. The RED clamp needs to be connected to the positive battery terminal, and the BLACK clamp needs to be connected to the negative terminal. Incorrect connection will blow the fuse.
5. Turn the car engine back on. Switch the cleaning machine on - a blue internal light indicates that the machine is on and functioning.
6. Insert HHO hose into a small container of water to check Hydrogen is being produced (i.e. bubbles).
7. Insert HHO hose into the vehicle's air induction inlet and where possible before air flow sensor.
8. Run the vehicle at tick over up to 60 minutes. Every 10 minutes, apply fast full throttle usage at the same time, in order to allow the engine to clear out any loosened carbon deposits.
9. At the end of the process, switch the cleaning machine off and run the vehicle's engine for a further 2 minutes or more, to use up all the hydrogen gas which may be in the delivery hose. Switch off engine and disconnect the battery clamps. Remove the HHO hose, refit the vehicle air inlet and test.



Refilling the fluid reservoir

Do not top up or add to this fluid level with anything other than Sykes-Pickavant HHO Replacement Fluid - 53400400, as this will affect the operation of the machine. The level of fluid within the reservoir can be viewed through the window on the front of the machine. When the level reaches the minimum level please contact customer services for 53400400 replacement fluid.

NOTE: If the fluid level falls below the minimum level line, the machine will stop producing HHO. It will automatically recommence HHO production when filled.

To fill the HHO reservoir

- Loosen the 4 screws on the panel on the top of the machine and remove panel
- Remove cap from reservoir and add HHO fluid to the max level - max/min fluid levels can be monitored through the viewing window
- Replace cap and panel
- Use of a different fluid may lead to operating problems with the machine and will void the warranty



EC Declaration of Conformity

in accordance with BS/EN/ISO/IEC17050-1:2010

Equipment Description	Carbon Tec HHO Machine
Manufacturer/Supplier	Sykes-Pickavant Ltd.
Address	Unit 4, Cannel Road, Burntwood Business Park, Burntwood, Staffordshire, WS7 3FU
Directives:	EMC 2014/30/EU Electromagnetic Compatibility LVD 2014/35/EU Low Voltage Directive ROHS2 2011/65/EU Restriction of Hazardous Substances
International Standards	EN 61 326:2013 EMC emissions / immunity EN 61010-1:2010 LVD Electrical Safety
Tests carried out by:	Stafford Aero Technologies EMC Test Dept. 4 Chalk Hill House, 19 Rosary Road, Norwich, Norfolk, NR1 1SZ, UK
Declaration:	We hereby declare that the equipment complies with the required Directives stated above.

Authorised by



Position... DIRECTOR

Date... 11/4/18

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