

# OPERATING INSTRUCTIONS FOR THE **HYDROCO2**

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# OPERATING INSTRUCTIONS

## HYDROPEN SYSTEM

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### INTRODUCTION TO THE HYDROCO2

The HydroCo2 is an accessory to the HydroPen System, allowing CO2 from standard 5 kg. CO2 fire extinguishers to be delivered into a container, after penetration is completed by the HydroPen System.

To avoid build-up of ice/snow in the system when CO2 is applied, the HydroCO2 is to be connected to the fire hydrant, allowing a small amount of water to pass through the firehose, together with the CO2, into the container. The discharge hose and horn on the CO2 fire extinguisher are to be removed before connecting the fire extinguisher to the HydroCO2.

To avoid potential overpressure in the firehose when carrying the CO2, a 8 bar pressure relief valve is installed on the HydroCO2.

The HydroPen cannot carry out the drilling process with CO2. The penetration of the container will therefore have to be done with water, prior to the connection of the HydroCO2 device.



*The HydroCO2 (V2). It consist of two adaptors with a blue hose for water supply, and a black hose for connection of a CO2 fire extinguisher. On the adapter with the black hose for CO2 there is a, 8 bar over pressure valve. The above HydroCO2 is with Storz-C adaptors. Other standards of adaptors can be delivered upon request.*

### STEP-BY-STEP USER INSTRUCTIONS FOR THE HYDROCO2 (V2):

1. Use the standard operation method (water) for the HydroPen System to penetrate the critical container (as per HydroPen System operating instructions).
2. Once the container has been penetrated, turn off the water flow.
3. Disconnect the firehose from the fire hydrant.
4. Drain the water from the firehose leading to the HydroPen drilling unit.
5. Install the HydroCO2 to the firehose leading to the HydroPen and the fire hydrant:

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## STEP-BY-STEP USER INSTRUCTIONS FOR THE HYDROCO2 (V2):

- a. Connect the adapter part with the blue hose and the marking “Water inlet hose” to the hydrant or a firehose connected to the hydrant.
- b. Connect the adapter part with the blue and black hoses and the marking “HydroPen hose” to the firehose connected to the HydroPen.



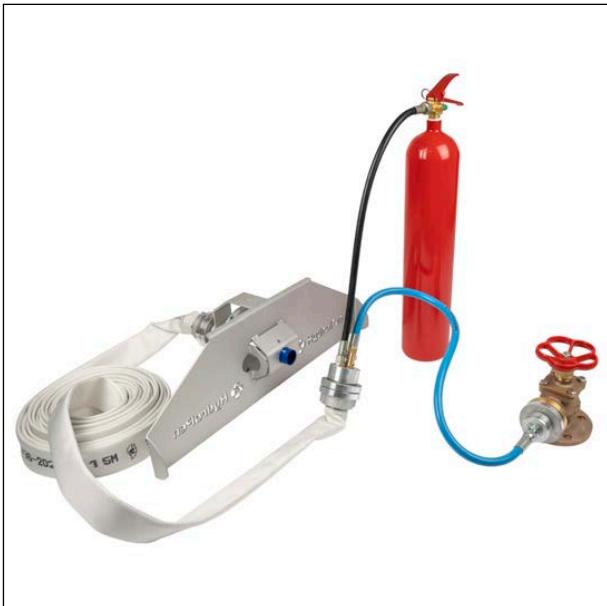
- c. Connect the black CO2 hose to the CO2 fire extinguisher, making sure the gasket in the black hose is in place.



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## STEP-BY-STEP USER INSTRUCTIONS FOR THE HYDROCO2 (V2):

1. Open the water supply.
2. Remove the split from the CO2 fire extinguisher and SLOWLY open for the CO2 pressure and keep the CO2 flow running until the fire extinguisher is empty.
3. When the CO2 fire extinguisher is empty, replace the it with a new CO2 fire extinguisher.  
To limit the amount of water delivered into the container, the water pressure can be turned off during the exchange of the CO2 fire extinguisher.
4. The materials exposed to the CO2 will become very cold. Make sure to wear gloves during the above described operation.



*An example of the complete HydroCO2 (V2) set-up. If needed, a fire hose can be placed between the hydrant and the 'water inlet' adapter of the HydroCO2.*

See the video instruction on the provided USB flash drive or on the HydroPen Youtube channel:



### NOTE:

- Do not use the CO2 to drive the HydroPen's penetration of a container. Penetration should be done with water, as per HydroPen System operating instructions.
- The HydroCO2 is not included in the standard supply of a HydroPen System. It has to be ordered separately as an accessory.





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