# STREET JET WASHER

FOUNDATION FOR THE DEVELOPMENT OF NEW HYDROGEN TECHNOLOGIES IN ARAGON

## DESCRIPTION

The prototype, has a water tank with a pressure hose that allows cleaning of the streets in urban areas of cities. The hose guide pressurized water propelled by a fed through a fuel pump.

A hydrogen fuel cell is an electrochemical device that directly converts the hydrogen energy into electricity; reducing both air pollution and noise.

Handling or movement of the street yet washer on the streets is very easy for the operator, as it is equipped with a two Jockey Wheel that it allows freedom of movement.

The equivalent system would be an assembly of tank and impulsation pump, powered by a diesel engine, built into a van or pick-up for travel.

## FEATURES

- Power Hydrogen Fuel Cell: 4 kW
- Hydrogen storage: 50 l at 200 bar
- Energy storage: 10 kWh
- Autonomy: 6-8 hours.

## QUANTIFICATION

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|---|---|
| **Energy savings:** | Street yet washer system: 37,5 kWh/day |
| | *Pick-up* (diésel) System: 60 kWh/day |
| **$CO_2$ Emissions:** | Street yet washer system:0kg $CO_2$/year |
| | *Pick-up* (diésel) System: 3 750 kg $CO_2$/year |
| **Acoustics emissions:** | Street yet washer system: 70 dB (like to a noise in the office). |
| | *Pick-up* (diésel) System: 120 dB (like a plane take off). |



## FUNDED BY

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http://www.zerohytechpark.eu/

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