



Filtration and Membranes for Alternative Power



PROVEN FILTRATION, FUTURE REDEFINED

PRODUCTS

Noise Attenuation

The compressor and turbine wheel on a fuel cell generate a high pitch noise. We integrate noise absorption technology in our components.

Venting Solutions

A membrane vent allows for pressure equalization of a battery pack or fuel cell enclosure while protecting it from dust, water and other contaminants.

Intake Air Filtration

Both engines and fuel cells need clean air. Besides capturing dust and removing rain water, fuel cells also need to be protected from chemical contaminants.

Liquid Fuel Filtration

Our fuel filtration expertise encompasses alternative fuels such as biodiesel, HVO, ethanol and methanol.

Emissions

Alternative fueled engines still emit harmful pollutants. Our emission solutions address nitrogen oxides, particles and other harmful pollutants in the tailpipe.

Coolant Ion Exchanger

Fuel cells and immersion-cooled battery packs require coolant with ultra-low electric conductivity. Our ion exchange technology keeps the electric conductivity of this coolant at the required level.

Water Separator

Around a fuel cell, liquid water needs to be separated from the gas in multiple areas. Our proven technology offers a modular and versatile solution.

Humidifier

Our humidifier technology enables the fuel cell to operate at a high and stable humidity level.

Ionomer Membrane Skeleton

Donaldson's Tetratex® membrane reinforces the fuel cell membrane electrode assembly (MEA) ionomer.

H₂ De-oxidizer and Dryer

Raw hydrogen from the electrolyzer is passed through a de-oxidizer and dryer to remove trace amounts of oxygen and water.

Gas (Gaseous) Fuel Filter

Gaseous fuels need filtration from well to wheel; we offer different sized technology solutions to remove unwanted contaminants from fuel.

Scan the QR code to learn more about our alternative power offerings.



APPLICATIONS

Liquid and Gaseous Fueled Engine

We understand the significance of preserving the traditional combustion engine while replacing diesel fuel with alternative fuel. We offer filtration solutions for HVO, methanol, bio-diesel blends, methane (CNG/LNG, bio) and hydrogen.

Hydrogen Fuel Cells

Donaldson starting working with hydrogen fuel cell technology in the early 2000s. With this groundbreaking technology, we offer various high-tech filtration and membrane solutions.

Battery

Some heavy-duty applications are very suitable for electrification. We offer innovative venting solutions for power-train systems.

Hydrogen Electrolyzers

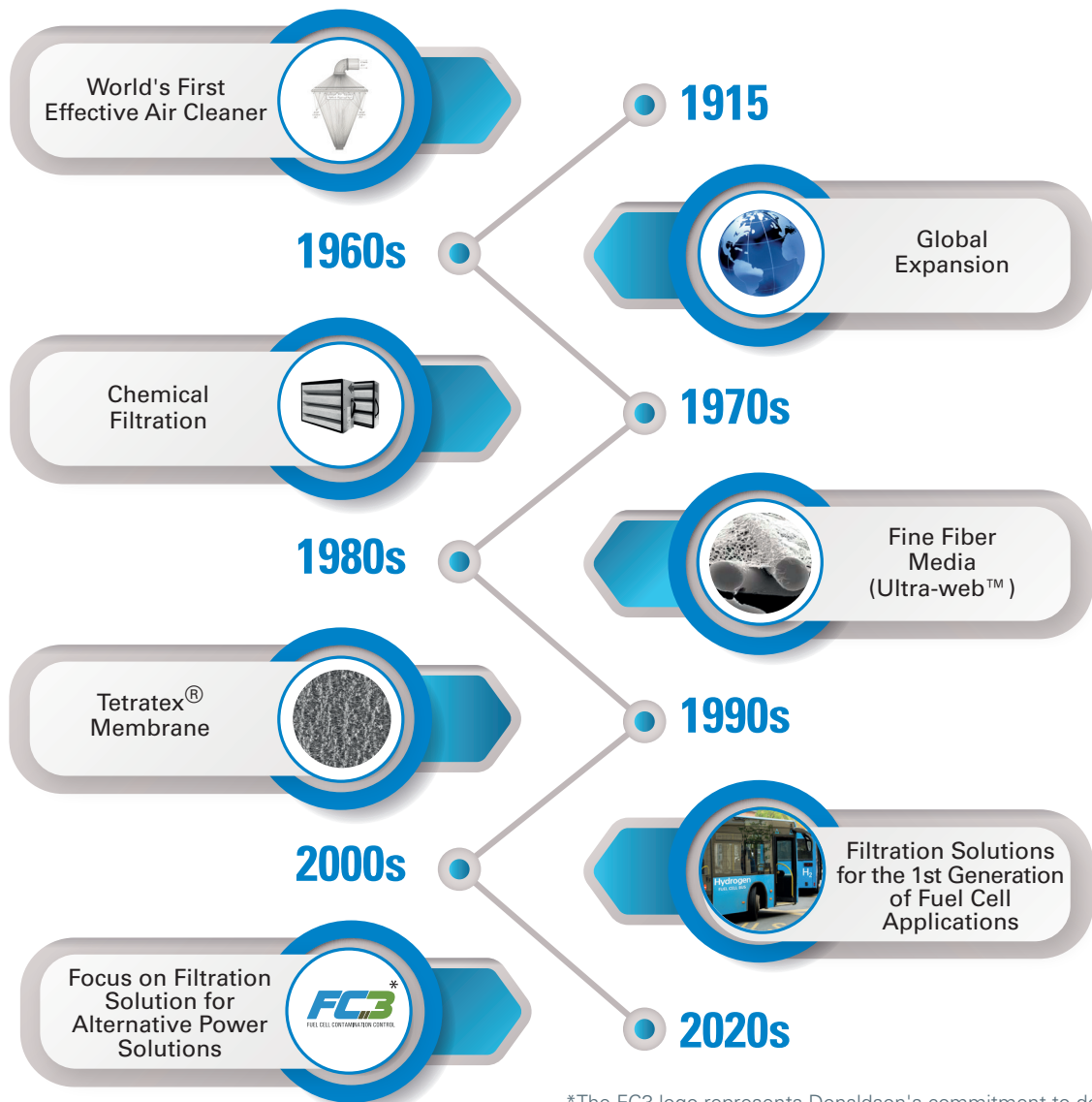
At the electrolyzer outlet, hydrogen undergoes purification, eliminating water vapor and oxygen. Our robust filters consistently uphold the quality of hydrogen during distribution, ensuring compliance with stringent standards at the fuel station.



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OUR FOOTPRINT

As a global leader in filtration technology for more than a century, Donaldson has been at the forefront to protect mobile and industrial equipment from harmful contaminants and has been a pioneer in alternative power filtration since the early 2000s.



*The FC3 logo represents Donaldson's commitment to delivering excellence in Fuel Cell Contamination Control.



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