



Donaldson
FILTRATION SOLUTIONS

Filtration and Membranes for Alternative Power



PROVEN FILTRATION, FUTURE REDEFINED

PRODUCTS

Battery

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 MEA ionomer.

H₂ De-oxidizer & 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 multiple-sized and technologies to remove unwanted species from your fuel.

H₂ Fuel Cell

H₂ Electrolyzer

Liquid Fueled Engine

Gas Fueled Engine

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.

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

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

Scan the QR code with your mobile device for more information about our products and technologies.



APPLICATIONS

Liquid and Gaseous Fueled Engine
We understand the significance of preserving the traditional combustion engine, while replace the diesel fuel with an alternative fuel. We develop filtration solutions for HVO, methanol, bio-diesel blends, methane (CNG/LNG, bio) and even hydrogen.

Hydrogen Fuel Cells
Since the early 2000's, Donaldson has been active around hydrogen fuel cells. Around this groundbreaking technology we offer various high-tech filtration and membrane solutions.

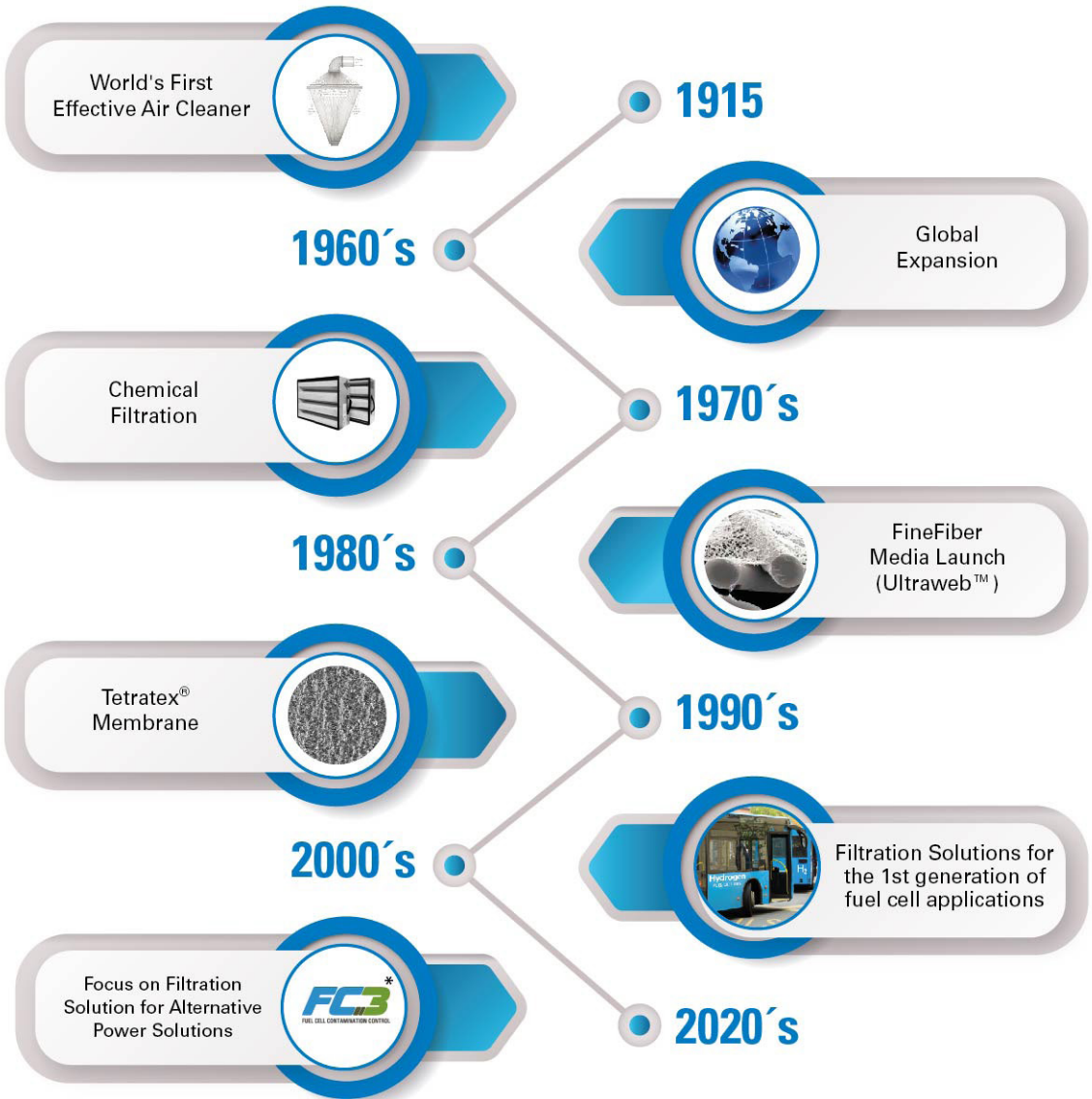
Battery
Some heavy duty applications are very suitable for electrification. Donaldson offers innovating venting solutions for these powertrain systems.

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.



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.



*FC3 is Donaldson Fuel Cell Contamination Control and represents our commitment to delivering excellence in the fuel cell industry.



Donaldson Company, Inc.
 Minneapolis, MN

donaldson.com
shopdonaldson.com

Global Headquarters
 North America Minneapolis, Minnesota, United States

Regional Headquarters

Africa Johannesburg, South Africa	Japan Gunma, Japan
Australasia Wyong, Australia	Latin America Aguascalientes, Mexico
China Shanghai, China	South Korea Seoul, Korea
Europe Leuven, Belgium	Southeast Asia Singapore, Singapore
India Gurgaon, India	

Brochure No. F111698 ENG 01/24
 ©2023 Donaldson Company, Inc. All rights reserved. Donaldson Company, Inc. reserves the right to change or discontinue any model or specification at any time and without notice.