

THE COMPRESSOR, AN ESSENTIAL ELEMENT IN THE HYDROGEN REVOLUTION

ENOGIA responds to the major challenges of the ecological and energy transition with its unique and patented technology of compact, light and durable micro-turbomachinery. As the French leader in heat-to-electricity conversion with its wide range of ORC modules, ENOGIA enables its customers to produce decarbonised electricity and to recover waste or renewable heat.

Since 2020, ENOGIA has also been marketing air compressors for fuel cells, thereby contributing to the development of hydrogen mobility.

Founded in 2009 and based in Marseille, ENOGIA has nearly 60 employees involved in the design, production and marketing of environmentally friendly technological solutions. ENOGIA's CSR commitment represents an "Advanced" level of performance according to Ethifinance. ENOGIA is listed on Euronext Growth Paris.

Leading the hydrogen revolution with fuel cell compressors



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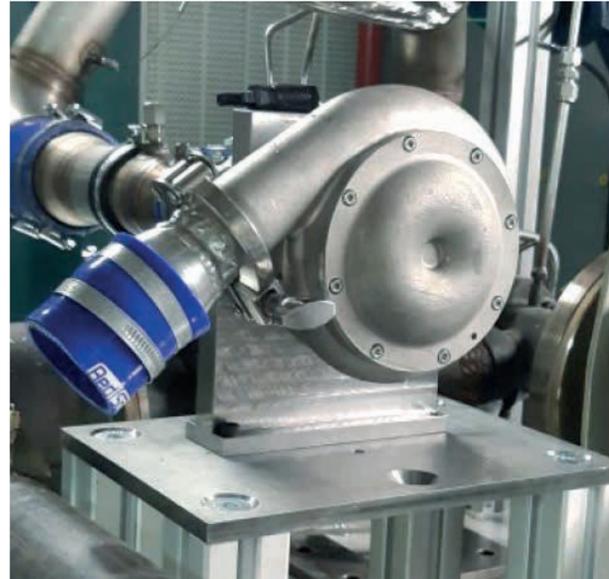
Micro-turbomachinery for a more sustainable world

ENOGIA TECHNOLOGY

ENOGIA is dedicated to support the fuel cell industry with an innovative compressor technology, based on a 10 years experience and expertise in micro-turbomachineries.

Our unique skills are combined with CFD design, optimisation of centrifugal bladings and highly efficient permanent magnet electric motors (PM). Based on a direct drive single-stage architecture, ENOGIA compressors offer outstanding performance.

Embedded is all the knowledge of ENOGIA's high speed turbomachinery with a robust bearing system including an innovative contaminant-free design.



MICRO-TURBOMACHINERY FOR FUEL CELLS



FEED AIR COMPRESSORS

ENOGIA technology is the right fit for any kind of stacks ranging from a few kW to 300kW



ANODE BLOWERS

ENOGIA recirculation anode blowers can work with very high temperature exhaust gases from SOFC devices

Both can be customized and certified for all applications.

APPLICATIONS

ENOGIA's technology is applicable to all decarbonised hydrogen market segments.

ENOGIA can provide compressors adapted to any type of fuel cell application, whether for light/heavy mobility, or for stationary power generation. ENOGIA compressors range from a few hundred watts to a hundred kilowatts and can therefore supply stacks of any size. The compactness and performance of ENOGIA compressors are real assets for fuel cell integrators.



UNIQUE FEATURES

SMALLER

Innovative architecture and state of the art motors lead to a very compact processor easy to fit within your applications

FASTER

With their single shaft layout and their low inertia moment, compressors can reach full power quickly

LIGHTER

Due to its compactness, ENOGIA compressor's are lighter than competitor's products

RESPONSIVE

The reasonable rotating speed and sturdy bearing system involve an extremely long lasting device that can handle a high number of cycles



Ideal running conditions



Design phase

Prototype phase

Small series phase

Deployment phase
Larger volumes

ENOGIA adapts each compressor to the characteristics required to produce the best performance from a stack under optimal conditions.

UNIQUE EXPERTISE IN MICRO-TURBOMACHINERY



INNOVATE

We push back the limits of turbomachinery miniaturisation to explore new applications.



CUSTOMIZE

we develop custom compressors for fuel cell integrators.



INDUSTRIALIZE

we participate in the renewal of an ambitious industry by involving local partners in the manufacturing of quality Made in France products.



MARKET

we distribute our products worldwide and implement economy-of-use energy saving models.