

8<sup>th</sup> November 2023 News

# OTECHOS

Looking to the future

We are pleased to announce:

**Current AG has chosen OTECHOS' CRC hydrogen compressor for their latest project.**

Our compressor is designed with a capacity/flow of 180 Nm<sup>3</sup>/hour and a pressure range of 1 – 9.9 bara to maximize production of compressed H<sub>2</sub> while reducing energy consumption, thereby helping to decrease our customers' operating costs and carbon emissions.

Our CRC compressor will play a key role as part of Current's driveline, where hydrogen is produced from methanol through a reformer from e1 marine. The produced and compressed hydrogen will then be used in a fuel cell, marking a significant milestone for us.

This is a major step towards a more sustainable future and a greener energy sector. We are grateful for the support and trust from our customer.



## Efficient

- Water sealing fluid provides efficient cooling for nearly isothermal compression process
- Extended precision boundary zone with water sealing fluid minimizes reverse flow even with small molecule gases
- Low internal friction due to non contact compression chamber sealing
- High output – Low energy consumption (kWh/m<sup>3</sup>)

## Reliable, low-maintenance

- No surface contact in compression chamber
- No inlet valves, no discharge valves
- Low temperatures maintained for all components (isothermal compression)

## Clean

- Oil-free
- No contamination of process

## Liquid tolerant

- Wet-gas compressor  
All liquid volume fractions (LVF) accepted

## Allows for system simplification

- Oil separation and cooling systems are not required
- Large gas intercooling and aftercooling systems are not required
- The high tolerance for liquid may reduce or eliminate the need for a separator.
- The high tolerance for liquid and contaminations allows for process steps like e.g. scrubbing and drying to be done after compression at a lower volume.

Current

<http://www.current.ch/>

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