



OTECHOS
Centric Reciprocating Compressor

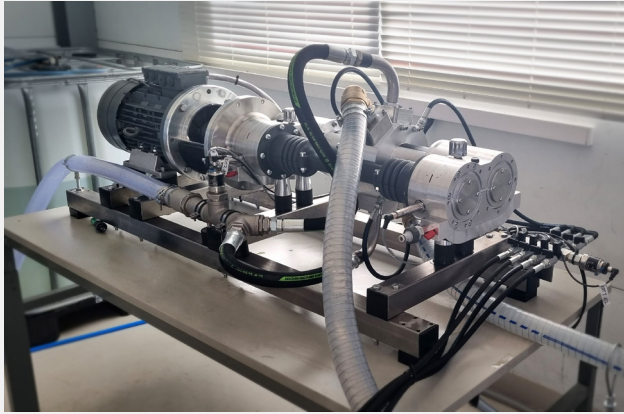
CRC



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OTECHOS
Looking to the future

OTECHOS Centric Reciprocating Compressor



OTECHOS has been awarded several times for the novel CR-Technology

- 2016: Horizon 2020 Phase 1
Soft EUR 50 k
- 2017: Horizon 2020 Phase 2
Soft EUR 2.3 mill
- 2020: EIC Horizon Green Deal Accelerator, blended finance
Soft EUR 2.3 mill + Equity EUR 4.0 mill



First liquid tolerant Centric Reciprocating Compressor enabled to Pump (CRCP)

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/m³)

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

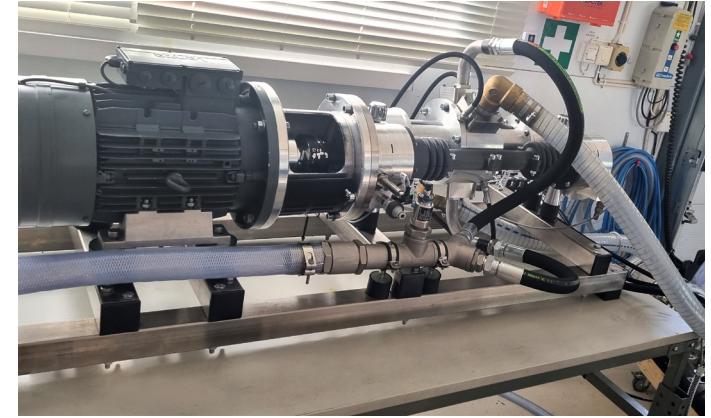
Liquid tolerant

- 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.

Well suited for many special gases



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