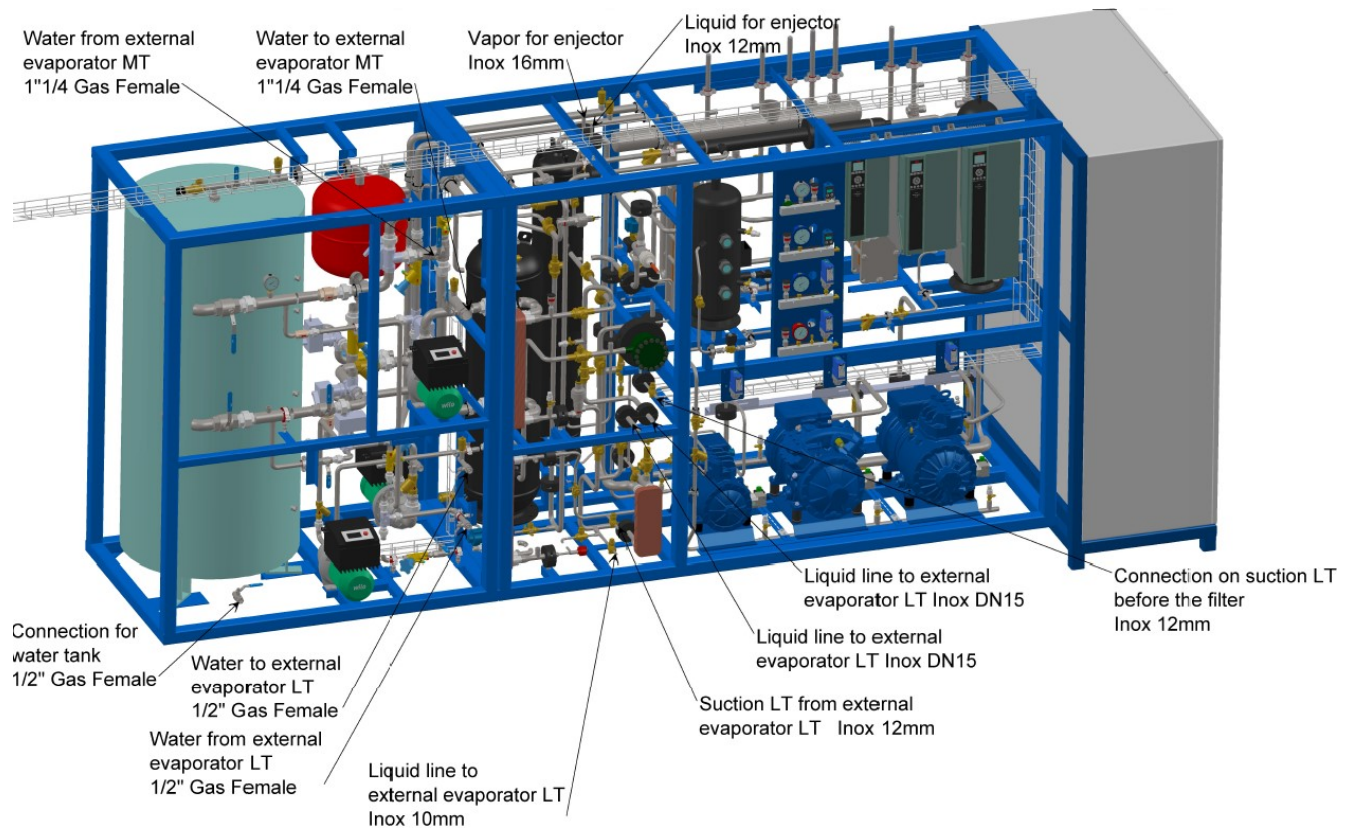


# MultiTest-Rack

## Multifunctional setup to test innovative components for tomorrow's CO<sub>2</sub> vapour compression systems

MultiTest-Rack is an experimental setup designed with the objective of testing new components for integrated CO<sub>2</sub> refrigeration systems at freezing (LT), chilling (MT) or air conditioning (AC), heat pumps, mobile air conditioning units, etc.



### Main features of MultiTest-Rack:

- 3 compressors, 1 per level (MT, LT and parallel), each with variable speed drive.
- Design cooling capacity: 30 kW at MT level (-8 °C) and 5 kW at LT level (-30 °C).
- Brazed plate heat exchangers (gas coolers and evaporators) and integrated glycol loop to adjust operating conditions and demands.
- Extensive instrumentation at different loops.
- Available ports for fast connection of components to be tested.

### Examples of components to test:

- low-pressure lift ejector(s),
- high (or very high) pressure lift ejector(s),
- liquid ejectors,
- two-phase expanders,
- glycol or air gas coolers,
- air conditioning evaporator fan coils,
- innovative sensor technologies.

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With funding from  
The Research  
Council of Norway

HighEFFLab 

