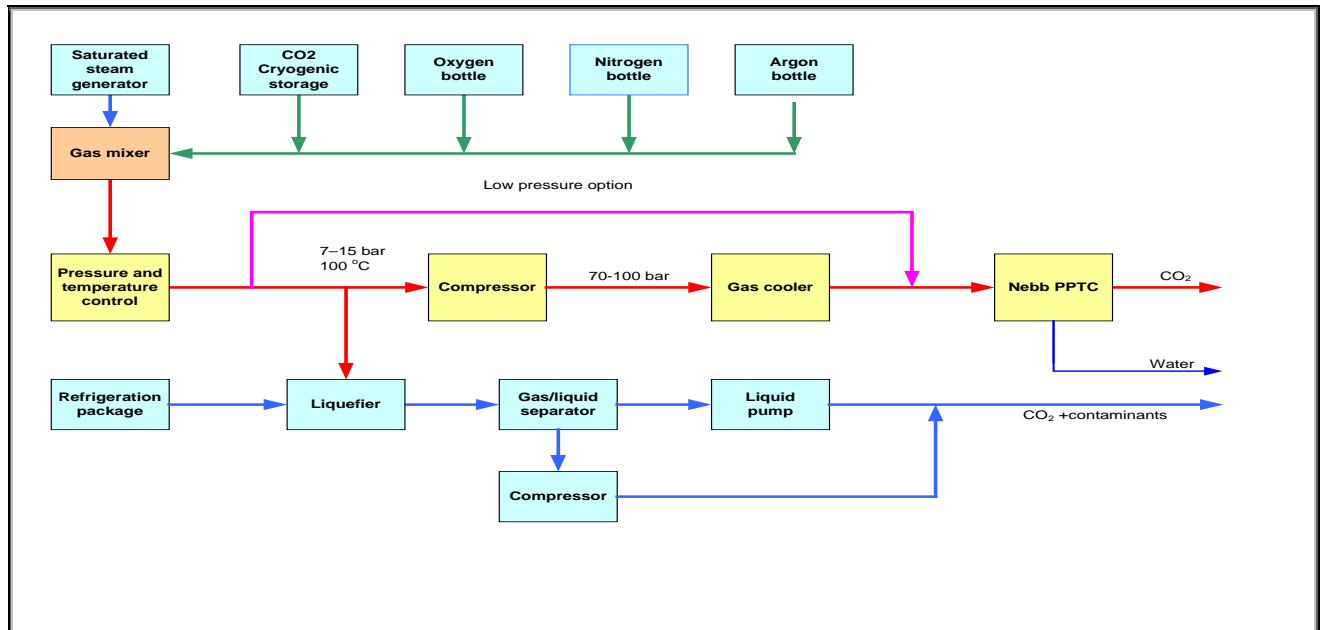


CO<sub>2</sub>/H<sub>2</sub>O behavior**Type of work**

Research project focusing on the thermodynamic and physical properties of CO<sub>2</sub>/H<sub>2</sub>O mixtures.

**Project description**

The project is planned and partly executed in the following phases:

1. Literature study, EOS simulator tests
2. Physical properties measurements, laboratory arrangement.
3. Equilibrium and flow simulation models updating
4. Condenser/separator flow path modeling.

**Client**

Nebb Technology AS with support from Research Council of Norway (NFR)  
 Project budget: app. 2 MNOK  
 Project duration: Started in September 2006, currently running.

**Project status**

Step 1 is completed with the following main conclusions:

- Available physical properties data does not cover the operation envelope for the envisaged CCS processes.
- Reliable modeling of e.g. the condensation curves for various pressures requires new and better data.
- Such data can best be generated from laboratory measurements
- Arrangements for such activities are under planning
- The first or next stage is dew point measurements in a suitable laboratory