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## 1. Scope

- 1) This document defines the execution of residual moisture tests at room temperature generally for cryogenic processing pipes and especially for application to
  - coils and iron yoke cooling pipes,
  - Bus Bar cooling pipes,
  - Shield cooling pipes.
- 2) To be applied for testing the adequate drying of processing pipes, especially of those, witch were pressurised with water during pressure testing.

## 2. Requirements

- 1) Residual moisture sensor with a lower detection limit <5ppm H<sub>2</sub>O
- 2) Test gas (inert gas: Helium, Argon, Nitrogen)
- 3) In case of pressure equipment (according to [1]) of the class I or higher, a passed pressure test according to [2] must be proven for all piping prior to testing.

## 3. Execution

- 1) The test gas supply must be connected properly to the processing pipe. The moisture sensor must be mounted to the outlet.
- 2) The inlet pressure must be set for an adequate mass flow at the outlet.
- 3) The test results must be logged. The residual moisture must not exceed a limit of 5ppm H<sub>2</sub>O.

## 4. References

- [1] Directive 97/23/EC, European parliament and the council of the European Union, <http://eur-lex.europa.eu>, 1997
- [2] AD 2000-Code; Verband der TÜV e. V.; Beuth Verlag GmbH; Berlin; Germany; 2009

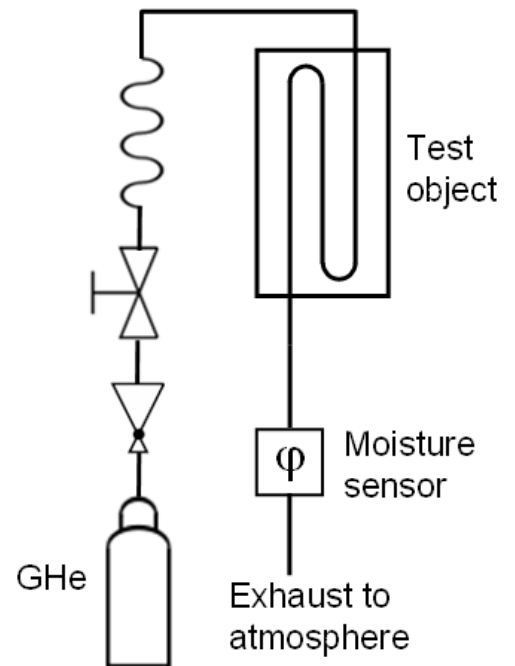


Figure 1: Test scheme