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## How to deal with leaks in the QRL and magnet insulation vacuum

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The influence of leaks on the cryogenic performance will be discussed and, as a consequence, different type of leaks will be defined: leaks that permit 200 days continuous machine operation, leaks that can be tolerated but require special measures, leaks that must be repaired. The various methods used to detect and locate leaks in the QRL and in the magnet insulation vacuum will be described and the repair scenario given with an estimation of machine downtime. The control tools required for an efficient diagnostic will be enumerated.

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