

# THE REVISION OF THE ITALIAN STANDARDS UNI 10637 FOR PUBLIC SWIMMING POOLS

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**Regulatory framework.** The Italian standard UNI 10637:2016 on Swimming pools - Requirements for circulation, filtration, disinfection and chemical treatment of pool water - provides a classification of swimming pools and specifies the requirements of design, construction and management of water treatment plants of the public swimming pool. The standard also provides information on tests and checks to ensure that the pool water quality is adequate for bathing.

**Results and conclusions.** The Italian standard UNI 10637:2016 is being revised and optimized by the UNI WG11 “Swimming” involving several authoritative Italian experts (e.g., Assopiscine, Italian National Institute of Health, etc.). The revision of UNI 10637 takes into account the relevant European Standards (e.g., UNI EN 15288-1 and 2 UNI EN 13451-xx; UNI EN 1069-1). The review integrates and improves the standards based on the experience gained in its application and will take into account:

- Technological updating.
  - New types of filters: ultrafiltration.
  - New recirculation pumps: variable frequency motors.
  - New technologies for disinfection: production of sodium hypochlorite from salt electrolysis in and off-line.
- New types of swimming pools (swimming pools in tourist-accommodation facilities, recreational pools equipped with whirlpools, fountains, etc.).
- Environmental impact.
  - Well-sized recirculation systems.
  - Reduction of pressure drops.
  - Filter efficiency.
  - Permanent magnet pumps and variable frequency.
  - Heat recovery from waste water.
- Energy saving.
- Water saving.

Use non-potable water but with chemical-physical and bacteriological characteristics suitable for use in the pool. Reduce the use of drinking water in the pool: use of filters that require less washing water or reduce the amount of daily renewal. Reuse the waste water and filter washing water for other purposes after appropriate treatment use as technological water. Publication of UNI 10637:2016 revision is expected in the second half of 2023.