

Title (en)

Process and device for load-related operation of a filtration device for swimming pools

Title (de)

Verfahren und Vorrichtung zum belastungsabhängigen Betreiben einer Filteranlage in Schwimmbädern

Title (fr)

Procédé et dispositif pour le fonctionnement dépendant de la charge d'une installation de filtration pour piscines

Publication

EP 0805246 B1 20000126 (DE)

Application

EP 96104859 A 19960327

Priority

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Abstract (en)

[origin: EP0805246A1] Process to operate a swimming pool filter unit depending upon the current load. The unit pumps water leaving the pool with a pump driven by an electric motor, whose rotation speed is adjustable, via at least one filter device (5) and back to the pool. The water level in the container (3) is recorded by sensors (6) as a measure of the number of bathers in the pool (1), then processed (7) and fed to a process computer (8). Here, the value is used along with other process variables such as water loss, fresh water feed, water run off, pump and filter coefficients, to obtain a control value to regulate the frequency re-set (9). This affects the required water flow rate via the filter pump (4), found by the equation: $Q_{\text{reg}} = R \cdot x \cdot Q_h / 100$. Also claimed is a device to carry out the above process.

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