

Title (en)
INSTALLATION AND METHOD FOR WATER TREATMENT

Title (de)
ANLAGE UND VERFAHREN ZUR WASSERAUFBEREITUNG

Title (fr)
INSTALLATION ET PROCÉDÉ D'UN TRAITEMENT DE L'EAU

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Application
EP 18735262 A 20180627

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Abstract (en)
[origin: WO2019002389A1] The present invention relates to a device and a method for treating raw water with ozone and ultraviolet radiation, comprising a reactor (4), which has first (5) and a second (6) reaction chamber. The first reaction chamber (5) has a UV lamp (1), an air inlet (30), and a gas outlet (23) for an air/ozone mixture (b). An air/ozone line (34) is connected to the gas outlet (23), via which line the air/ozone mixture (b) can be fed into the inlet line (31) for the water (d). The second reaction chamber (6) has an inlet line (31) for the water (d) and an outlet line (32) for the treated water. The inlet line (31) can contain a water filter (18). The inlet line (31) can contain a controllable recirculation pump (16) which is designed to pump water in the reactor direction, and the water filter (18) can be arranged between the controllable recirculation pump (16) and the reactor (4). A return line (33) is provided which has a pump (10) that pumps water in the direction of the inlet line (31). The return line has a feed point (21), at which the air-ozone mixture (b) can be fed into the water (d) or is fluidically connected via a fresh water feed point (9) to a fresh water line which has a feed point (21) at which the air-ozone mixture (b) can be fed into the fresh water (f).

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