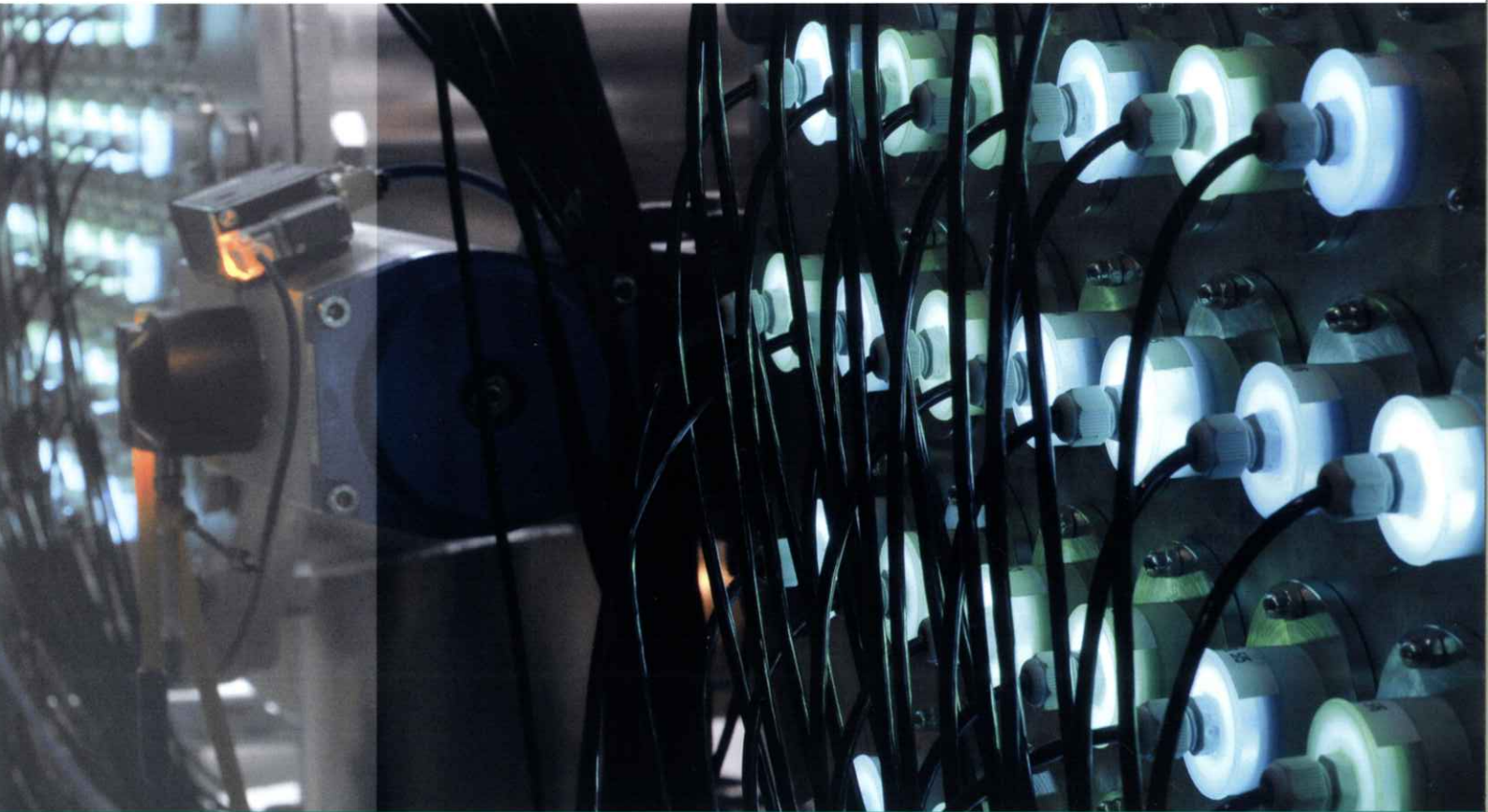


# UV Technology

Disinfection and removal of nitrosamines



**AMIAANTIT WATER MANAGEMENT**

Project Information
Products and Services
Drinking Water
Process Water
Waste Water
ICA Technology
Operation and Finance

When examining water samples, analytical laboratories are encountering nitrosamine-contaminated water with increasing frequency; these contaminants are primarily NMOR (N-nitrosomorpholine) and NDMA (N-nitrosodimethylamine).

As these compounds are extremely harmful to the health of humans and animals even in weak concentrations, a guideline of no more than 5 ng/l of all nitrosamines in drinking water has been determined.

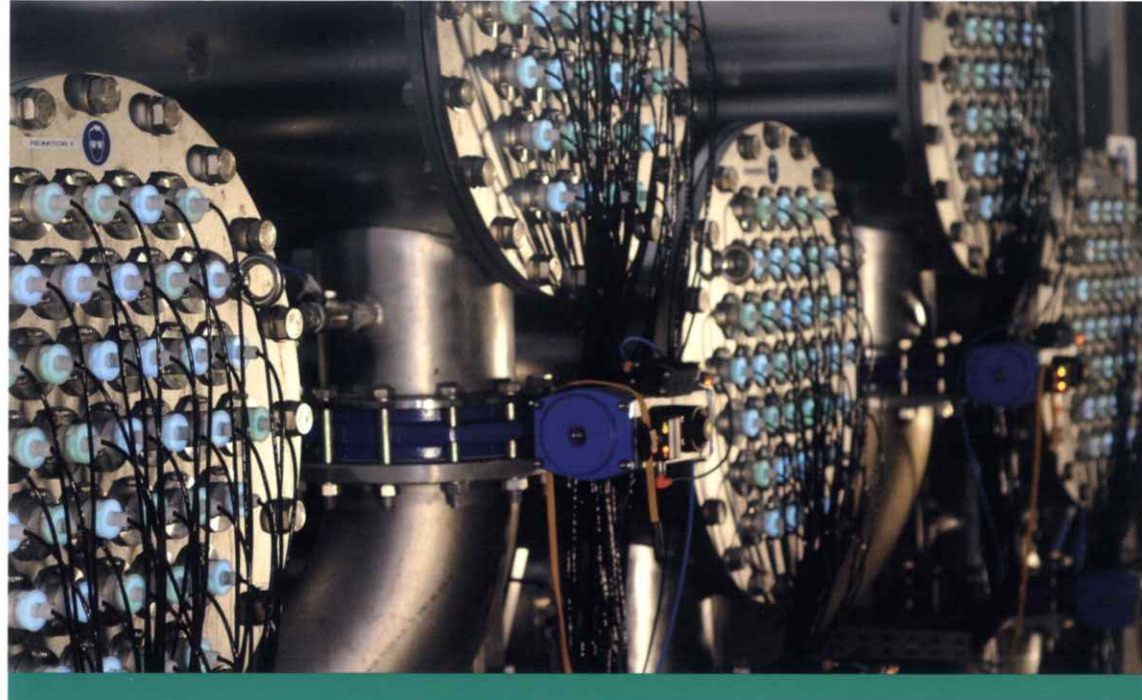
This means that many sources of drinking water which were used in the past can no longer be used without treatment. Practical experience has shown that there are even cases where the treatment of water with ozone has produced nitrosamines.



There are no economic ways of removing nitrosamines from water using known water treatment processes. PWT Wasser- und Abwassertechnik GmbH has therefore developed a new process for removing these substances from water using UV technology; tests under practice conditions have proved successful. PWT's UV plants are 100 % made from stainless steel. The plants are fully automated and fitted with equipment for the continuous monitoring of its operation.

Since its inception, this technology has treated over 1,000,000 m<sup>3</sup> of water contaminated with nitrosamines.

## UV Technology



### Technical Data

Type	UV11	UV12	UV21	UV22	UV31	UV32
Capacity [m <sup>3</sup> /h]	300	300	600	600	900	900
Removal efficiency [%]	95	99.5	95	99.5	95	99.5
Rated power [kW]	7.5	15.0	15.0	30.0	22.5	45.0
Pressure loss [bar]	0.2	0.4	0.2	0.4	0.2	0.4
Dimensions [L x W x H in m]	1.8 x 0.8 x 1.2	1.8 x 0.8 x 2.4	1.8 x 1.9 x 1.2	1.8 x 1.9 x 2.4	1.8 x 3.0 x 1.2	1.8 x 3.0 x 2.4
Weight [t]	0.4	0.7	0.7	1.3	1.1	2.0



**PWT Wasser- und  
Abwassertechnik GmbH**

Platanenallee 55  
64673 Zwingenberg  
Germany

Phone: +49 6251 980-0  
Fax: +49 6251 980-498

info@pwt.de  
www.pwt.de