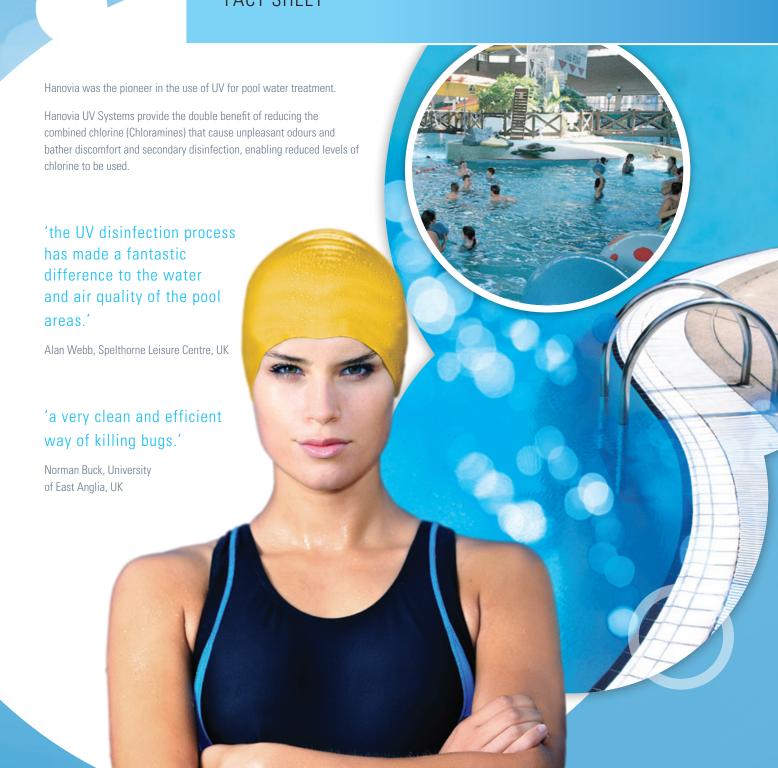


the power in UV technology

# UV for swimming pool purity... FACT SHEET



#### THE PHOTON II CONTROL

The Photon control system from Hanovia is a microprocessor-driven control module offering:

- Full traceability
- Data logging up to 12 months
- A menu-driven interface
- Real time display of performance parameters
- Download to RS232 Interface

#### THE MONITOR

Provides continuous output measurement of each UV lamp in treatment chamber and keeps system running at maximum efficiency. With any change in process conditions, the system can be designed to:

- · Switch to new power level
- · Initiate a local or remote alarm

#### THE TREATMENT CHAMBER

- Capacity up to 1,500m³ per hour for a single Photon chamber
- Interior mirror finish to highest standards, welds polished
- 316L stainless steel construction
- Quartz sleeve(s), mounted axially, houses
   Arc Tube(s) and permits replacement without
   interrupting flow
- Automatic wiper maintains disinfection efficiency, even for poor quality fluids
- Optimum hydraulic design for uniform treatment
- Dose models independently validated with bioassay testing worldwide

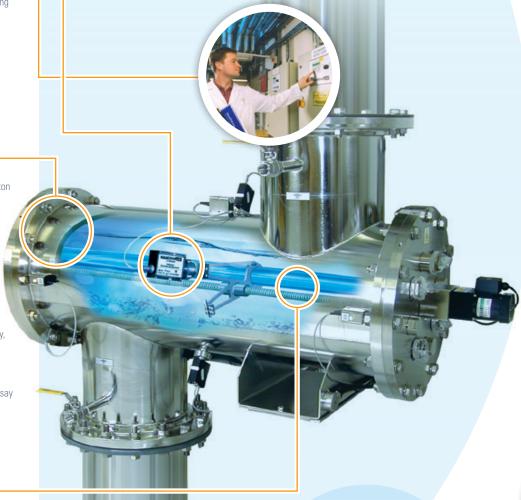
#### **ARC TUBE**

- Up to 6 Arc Tubes per chamber
- Simple to replace
- Hanovia is the only UV systems supplier to manufacture its own Medium Pressure Arc Tubes.
   This facility has enabled development of powerful medium pressure Arc Tubes which are rich in the wavelengths necessary for disinfection and chloramines destructions
- All Hanovia Arc Tubes are manufactured and tested to international standards

### the Hanovia System...

how it all works

In the treatment room, the entire pool volume re-circulates through the Hanovia chamber where it is purified by UV. The only moving part is the automatic wiper, which keeps the quartz sleeve free from deposits.



### swimming pool water purification with UV...

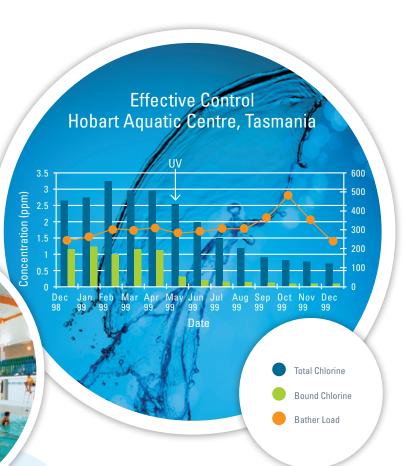
### ...explained in technical detail

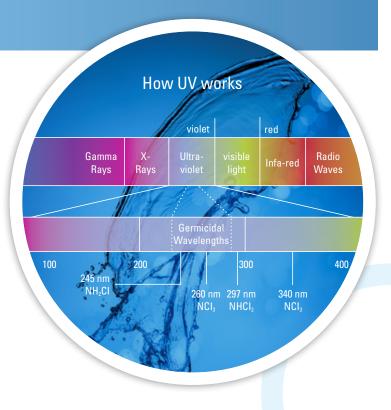
Hanovia equipment is effective within the guidelines of the Pool Water Advisory Group and allows safe reduction in residual chlorine levels to the new recommendations, whilst achieving a total to bound ratio>4:1.

Max. Combined Chlorine Levels		
Germany	0.20ppm	
Denmark	0.20ppm	
Italy	0.30ppm	
Sweden	0.40ppm	
Norway	0.50ppm	

#### Benefits of UV

The primary action of UV is to kill bacteria, viruses, moulds and their spores, thus reducing the risk of transmission of stomach, skin and respiratory tract infections to bathers. UV has an important secondary action: it initiates photo-chemical and photo oxidation reactions which destroys chloramines, a range of compounds responsible for unpleasant smells in pools. This is particularly important in leisure pools where features such as water slides and waves give a greater surface area for the release of chloramines into the air; UV reduces the burden, making the atmosphere safer and more pleasant. Total to bound ratio of > 4:1 are typical of pool water treated by Hanovia UV.





#### Hanovia system stand alone

- Simple and completely reliable
- Hanovia UV systems do not require daily maintenance
- Systems are fully monitored to ensure the correct dose of UV
- Alarmed for the unlikely event of UV tube failure
- Hanovia's systems interface with Building Management System
- Range of sizes to suit different demands
- Minimal space requirements

## UV is safer and provides the best environment for everyone involved

- UV is effective against all pathogens including Cryptosporidium
- Provides excellent water quality and a more pleasant bathing environment
- Treats full recirculating flow
- Reduces the amount of chemicals required, typically by 50%
- No breathing apparatus required

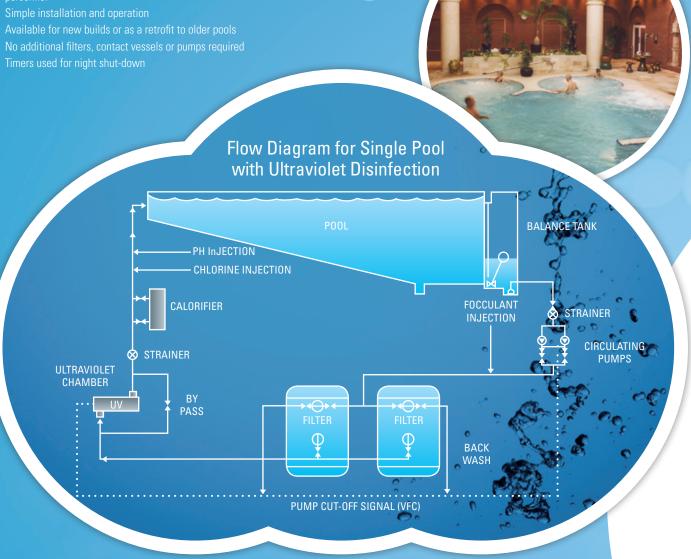
#### Maintenance

- Very simple and infrequent
- Arc tubes changed only once a year
- Arc tube replacement takes 5 minutes
- Maintenance can be carried out by on-site personnel

- Same technology used to disinfect drinking water
- Treated water quality exceeds highest international standards

#### Low Cost

- Lower Capital investment than other comparable technologies





#### FURTHER INFORMATION TECHNICAL AND SALES SUPPORT STAFF

our highly trained sales and service staff help you select and install the best plant for your needs. our comprehensive after sales service includes a full range of spares and ongoing professional technical backup, with an optional service contract.



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