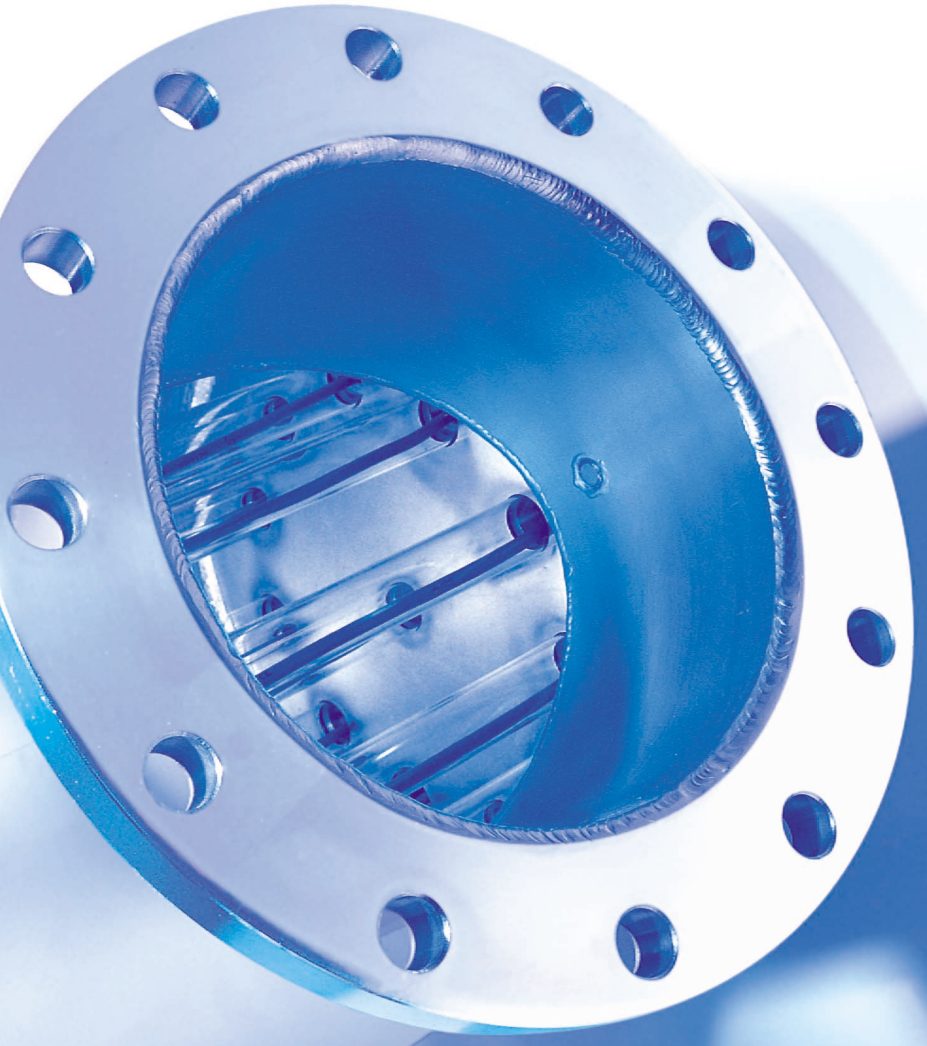
Bacteria Destroyed by Radiation:
UV Disinfection Systems from ProMinent.

UV PROTECTION



ProMinent®

Environmentally Friendly, Safe, Economical: A Few Good Reasons for Choosing ProMinent.

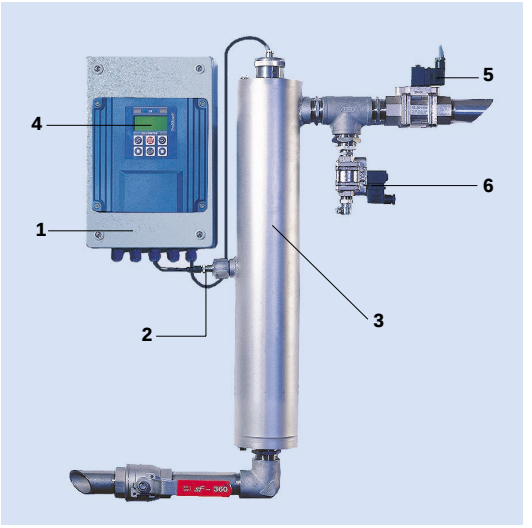
Environmentally friendly disinfection: no chemicals, no waste, no harmful by-products, no danger - just pure water.

Safe means safe: Thanks to microprocessor control, systems operate independently. They are simple to use and provide continuous information on the operating state.

Economy is a major advantage of this system: low energy costs, long operating life and low maintenance costs result in an excellent cost-of-ownership ratio.

Optimum solutions for any application; from waste water to ultra-pure water; from low volume domestic use to as high as 400 m^3/h for public drinking water supplies.

Dulcodes UV systems: modern technology for safe disinfection



1 Ballast with BUS
2 UVC light sensor
3 Radiation chamber
4 Graphical display with UVC capacity trend indicator
5 Stop valve
6 Flushing valve

Ballast with BUS

The lamps are switched on and off and are individually monitored via the BUS interface. The high frequency controller provides an optimised UV light output that is 10 - 20 % higher than conventional mains frequency devices.

A gentle warm start and adjustment of the lamp radiation increases the operating life of the lamps.

UVC light sensor eliminates disinfection risks

- when raw water is contaminated with suspended solids
- when deposits have built up on the lamp protection tube
- when the lamp output has been diminished by age.

High flux lamps reduce costs

(High performance lamps with up to 230 watts)

As a result of compact construction, investment costs are reduced, fewer lamps are required and the costs of lamp replacement are consequently also reduced.

Graphical display with UVC capacity indicator

The display shows a linear representation of the sensor signal over a preset time and provides information about the number of operating hours, on/off switch cycles and calibrations.

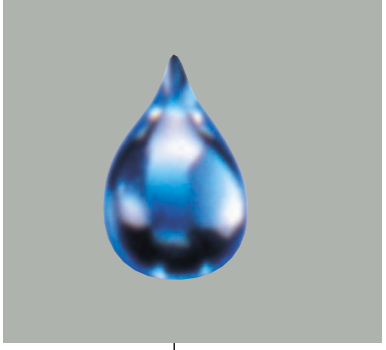
High level of operating safety ensured by appropriate valve action

The system, after being switched on, waits until the sensor signal has exceeded the safety threshold. The flushing valve then opens for initial flushing. The stop valve in the main water pipe then opens and the UV system goes into normal operating mode. The system can be programmed to carry out intermittent flushing if it is inactive for long periods. If the sensor signal drops, the controller activates the warning relay. If the signal falls below the safety threshold, the stop valve closes and the flushing valve opens.

High quality stainless steel radiation chambers (DIN 1.4571 resp. ANSI 312 Ti)

The optimised hydraulic system ensures an even exposure to radiation of the entire water flow. This guarantees excellent disinfection results.

*Flushing and stop valves are not included as standard.



EXPLOITING THE SUN'S ENERGY: VERSATILITY WITH SAFETY.

A central application area of the ProMinent® UV disinfection system is in public drinking water supplies. The chemical composition of water treated for drinking water use is completely unaffected by UV disinfection and so there is no significant change to the taste or smell.
Even direct disinfection of hot water is made possible by applying the most up-to-date UV technology. The dreaded legionella bacteria stand no chance when faced with the "UV storm".
Many branches of industry – e.g. within the drinks, cosmetics, pharmaceutical or electronics industries – make specialised and high demands on water quality. The general requirement is for "high quality water" with no salt or bacterial content. With a ProMinent® reverse osmosis system installed upstream for salt-removal, the UV disinfection system can safely meet these exacting standards.
At the "other end of the scale", in wastewater treatment, UV light makes a valuable contribution to the environment.
Other interesting applications include the disinfection of process water from air conditioning systems and the treatment of grey and rainwater.

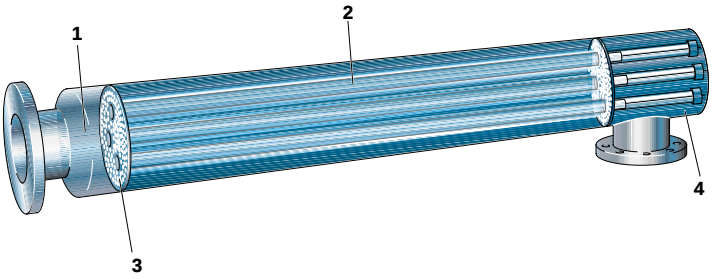
SAFE AREA

Dulcodes type	Lamp power (W)	Connection power (W)	Length of radiation chamber (mm)	Minimum space for lamp replacement (mm)	Diameter (mm)	Shipping weight/operating weight (approx. kg)	Connector width
16P/11/3/4"	16	30	382	350	114	6/10	G 3/4"
45P/11/5/4"	45	60	940	900	114	10/20	G 1 1/4"
80W/11/5/4"	80	100	630	600	114	8/14	G 1 1/4"
130W/11/2"	130	150	940	900	114	10/20	G 2"
230W/130/DN 65	230	250	1486	1400	140	24/46	DN 65
2*230W/21/DN 125	2*230	500	1640	1500	220	41/96	DN 125
3*230W/27/DN 150	3*230	750	1665	1500	273	53/138	DN 150
4*230/32/DN 200	4*230	1000	1690	1600	324	65/150	DN 200
5*230W/32/DN 200	5*230	1200	1690	1600	324	70/190	DN 200
6*230W/32/DN 200	6*230	1400	1790	1600	406	75/200	DN 200
7*230W/40/DN 250	7*230	1700	1920	1600	406	115/310	DN 250
8*230W/40/DN 250	8*230	1900	1920	1600	406	115/310	DN 250
9*230W/40/DN 250	9*230	2100	1920	1600	406	130/320	DN 250
10*230W/40/DN 250	10*230	2400	1920	1600	406	130/320	DN 250
11*230W/40/DN 250	11*230	2600	1920	1600	406	130/320	DN 250
12*230W/40/DN 250	12*230	2800	1920	1600	406	130/320	DN 250

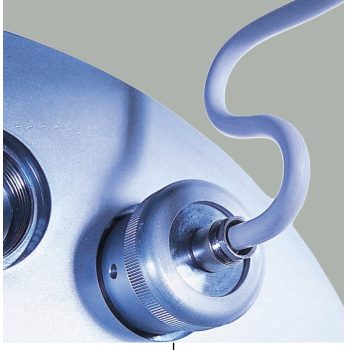
COMPACT UNIT - HIGH PERFORMANCE: UV DISINFECTION THE SIMPLE WAY.

The UV disinfection system from ProMinent is a “shining example” of the fact that that fluid disinfection need not necessarily be very costly. Flow-optimised UV lamps, contained in compact stainless steel chambers, provide sufficient UV-C radiation to safely disinfect all the fluid flowing through the system. The user-friendly operating interface monitors the whole process via a high quality UV-C sensor. Immediate disinfection results mean that there is no need for a reaction tank.
The UV system can be integrated anywhere within larger water treatment systems, giving greater freedom in the installation process.

SAFETY FACTOR



1 Inlet area
2 Radiation area
3 Perforated plate for creating turbulence
4 Outlet area

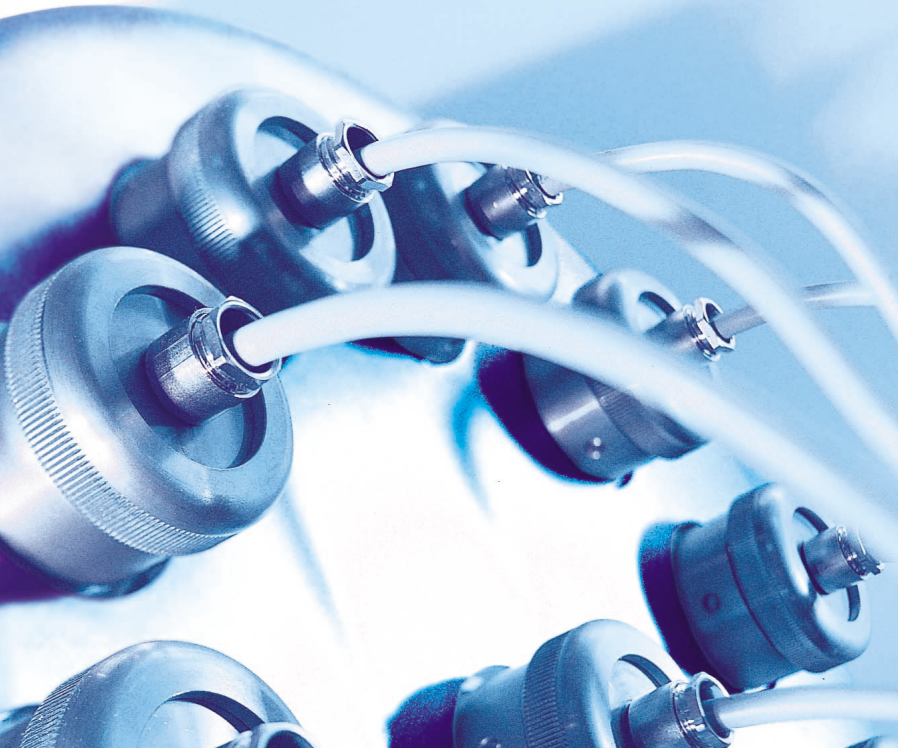


From Design to Maintenance: ProMinent Service.

Opting for a UV disinfection system means opting for our comprehensive UV expertise

Because the ”inner life” of our UV disinfection systems, with the latest electronic technology, is highly complex - operating and maintenance is especially simple. Should any questions arise, our experts are ready to help at every stage from the initial design to day-to-day servicing. If ever things aren’t working as they should, we are able to supply you with replacement parts in a very short time. Water treatment can proceed as normal and you can discount fears of health risk.
A maintenance contract ensures that your system will always operate in safety. You can rely on ProMinent, our service and the UV disinfection system. We’ll give you our word in writing on that.

SAFE CONDUCT



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