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STRIVE FOR CLEAR WATER

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# NanoTech UV-C Disinfection System

A NON-CHEMICAL APPROACH TO WATER SANITIZATION  
For pool & spa, fish pond, and drinking water system



**eEmaux**  
water technology



RoHS  
COMPLIANT  
2002/95/EC

SAA



Pool & Spa Equipment

SIGNATURE COLLECTION

# Product Features

Robust  
Housing

Mirror-  
Polished  
Interior

Quartz  
Sleeve

## Precise design, Top Performance

Durable stainless steel AISI 316 housing, with mirror-polished interior that increases the UV-C radiation reflection, thereby increasing the efficiency by up to 35%

High quality quartz sleeve ensures nearly 100% transmission of UV-C at 254nm. It offers protection against air and water flow, breakage, and temperature fluctuations.



# NanoTech UV-C ADVANTAGES

- 1) USER-FRIENDLY** Easy installation and maintenance. Optional timer can control the running operation hours.
- 2) STRONG AND DURABLE** Robust housing which is made of Stainless Steel AISI 316 enhances the product life with its anti-corrosion property. Professional quality UV lamp possess a long life time over 9,000 ( to 12,000) hours.
- 3) HIGH EFFICIENCY** The mirror-polished interior of the housing increases the UV reflection rate and thus enhances the work efficiency.
- 4) ENVIRONMENTAL-FRIENDLY** It reduces the chlorine consumption up to 70%. Also water renewal is reduced due to fewer by-products formed.
- 5) BETTER PROTECTION** The disinfected water is free of unpleasant smells and does not irritate the eyes, because of the drastic reduction in the amount of chloramines. No risk of allergies, and your pool is protected against pathogenic organism and algae.





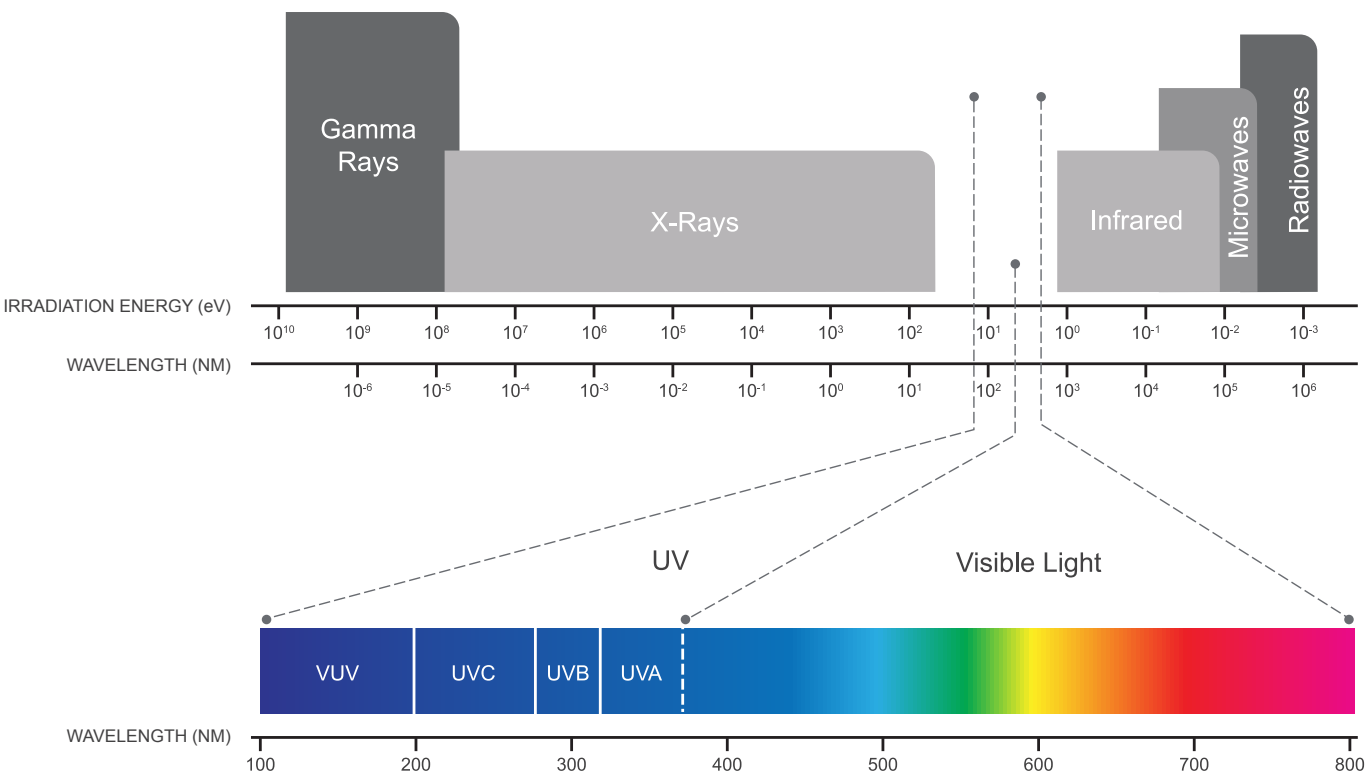
# About UV-C

## Advantages of using UV-C for water disinfection

UV-C light at a particular wavelength 253.7nm is a very powerful germicide. It deactivates the DNA of bacteria, viruses and other pathogens and thus destroys their ability to multiply and cause disease.

Ultraviolet technology is a non-chemical approach to disinfection. In this method of disinfection, nothing is added which makes this process simple, inexpensive and requires very low maintenance.

UV-C light is become increasingly favoured by the pool industry as its ability to break down and remove chloramines, which will cause eye, skin and nose irritation, and breathing difficulties.



# Product Information

## NanoTech UV-C Standard

These UV systems combine all the benefits listed above in a very compact design. Another advantage is that the lamps are single ended and can be easily replaced.

### Main Applications

- 1) Residential Swimming Pools
- 2) Fish Ponds
- 3) Drinking water



Code 230V	Code 120V	Model	Max Flow Rate (m³/h)	Pool Vol (m³)	Input Power	Maximum Pressure	Connections	Electric Ballast	Maximum Current (A)	UV Lamp lifetime (hr.)
88049015	88049115	NT-UV16	15	15	16W	3 bar	1.5"/50mm or 2"/63mm	120-240V AC; 50-60Hz	0.29	9,000
88049016	88049116	NT-UV40	40	40	40W	3 bar	1.5"/50mm or 2"/63mm	120-240V AC; 50-60Hz	0.29	9,000
88049006	88049106	NT-UV75	75	75	75W	3 bar	1.5"/50mm or 2"/63mm	120-240V AC; 50-60Hz	0.57	9,000



## NanoTech UV-C Timer

Emaux Nano-Tech UV-C Timer includes an integrated TIMER which accurately monitors the operating hours of the UV-C lamp. You will be reminded when the lamp must be replaced.

### Advantages of comprising a timer

- 1) User-friendly control pad with time clock and time meter display
- 2) Integrated adjustable time meter for the UV-C lamp
- 3) Digital indication when the lamp needs replacing

Code 230V	Code 120V	Model	Max Flow Rate (m³/h)	Pool Vol (m³)	Input Power	Maximum Pressure	Connections	Electric Ballast	Maximum Current (A)	UV Lamp lifetime (hr.)
88049026	88049126	NT-UV40-T	20	40	40W	3 bar	1.5"/50mm or 2"/63mm	120-240V AC; 50-60Hz	0.29	9,000
88049027	88049127	NT-UV75-T	25	75	75W	3 bar	1.5"/50mm or 2"/63mm	120-240V AC; 50-60Hz	0.57	9,000

Note : "T" stands for Timer

# Product Information

## NanoTech UV-C With Amalgam Lamps and Flow Switch

The amalgam lamps set between the low pressure and medium pressure UV applications, by combining high efficiencies with relative high power densities operating in a broad temperature range.

The amalgam version includes a flow switch which will cut-off the lamp power to protect the system from over-heating when the water flow is lower than required.

By applying a special coating technology, we are able to guarantee a maintenance of 85% after 12,000 hours operating in a broad temperature range. Optional Timer version is included.

### Main Applications

- 1) Drinking water system
- 2) Waste water system
- 3) Process water treatment unit
- 4) Swimming pool & spa



Note : "F" stands for Flowswitch, "T" stands for Timer

Code 230V	Code 120V	Model	Max Flow Rate (m³/h)	Pool Vol (m³)	Input Power	Maximum Pressure	Connections	Electric Ballast	Maximum Current (A)	UV Lamp lifetime (hr.)
88049029	88049129	NT-UV130F	30	130	130W	3 bar	1.5"/50mm or 2"/63mm	120-240V AC; 50-60Hz	1.1	12000
88049030	88049130	NT-UV130TF	30	130	130W	3 bar	1.5"/50mm or 2"/63mm	120-240V AC; 50-60Hz	1.1	12000



## NanoTech UV-C Ozone

Emaux Nano-Tech UV-C Ozone combines the ozone and UV-C technology which ensure fresh and healthy pool water with the minimum use of chlorine.

### Advantages

- 1) Built-in electronic pre-selector to ensure a smooth power supply
- 2) Up to 35% more UV-C yield as a result of reflection
- 3) Reduces the chlorine consumption up to 80%
- 4) Ozone UV-C lamp last for 9,000 hours
- 5) Integrated adjustable time meter for the UV-C lamp
- 6) Digital indication when the lamp needs replacing



Note : "O" stands for Ozone, "T" stands for Timer

Code 230V	Code 120V	Model	Max Flow Rate (m³/h)	Pool Vol (m³)	Input Power	Maximum Pressure	Connections	UV Lamp lifetime (hr.)
88049032	88049132	NT-UV87-TO	25	90	87W	3 bar	1.5" / 50mm or 2" / 63mm	9000

### UV-C Ozone Operation

The water is pumped into the unit through the reactor. Air is sucked through the venturi system into the unit via the air injector and flows through the quartz glass and the ozone UV-C lamp. The air enters the lamp and loaded with ozone particles, then pass the ball valve and mixed with the water in the reactor.

