

NanoTech UV-C Disinfection System

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



 **Emaux**
water technology



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.



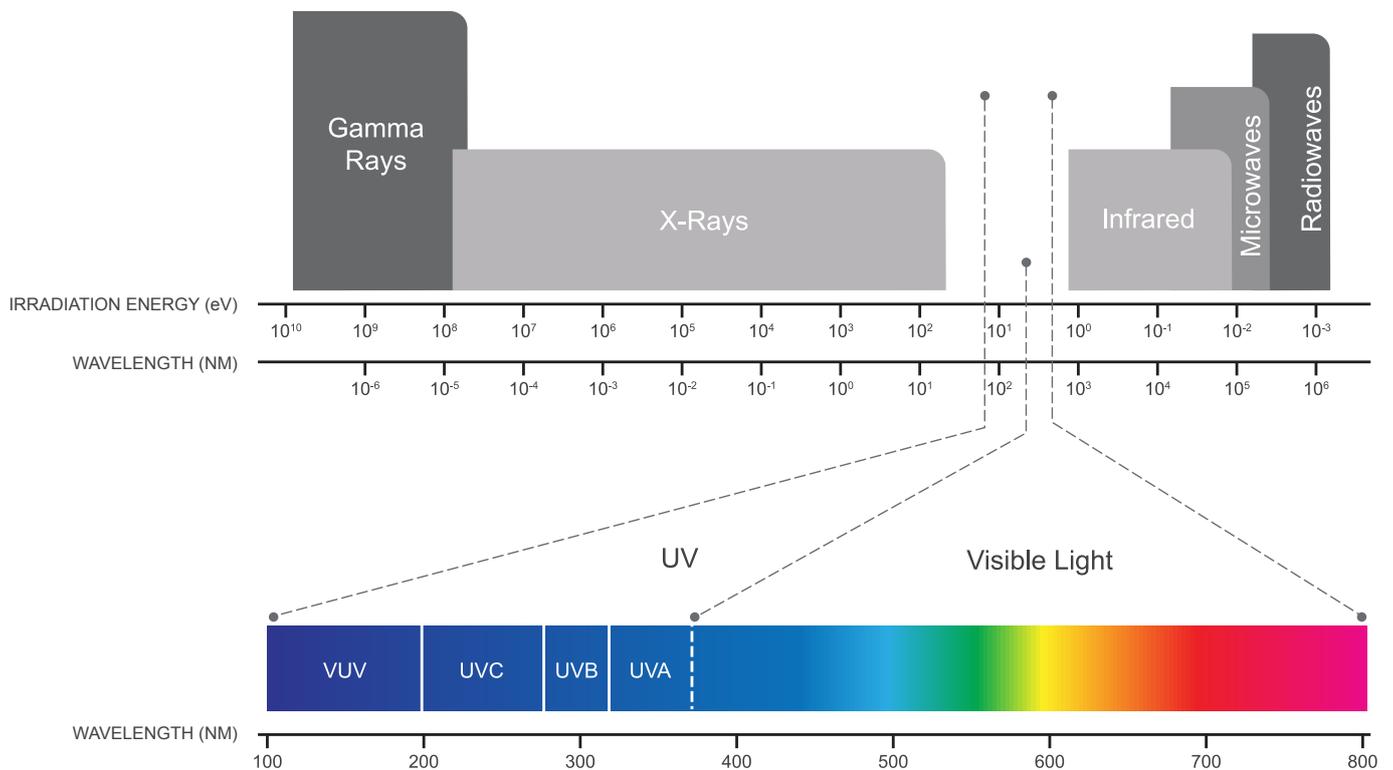
About UV-C

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

Note : "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.) |
|-----------|-----------|-----------|----------------------|---------------|-------------|------------------|----------------------|----------------------|---------------------|------------------------|
| 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 |

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 (m ³ /h) | Pool Vol (m ³) | 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

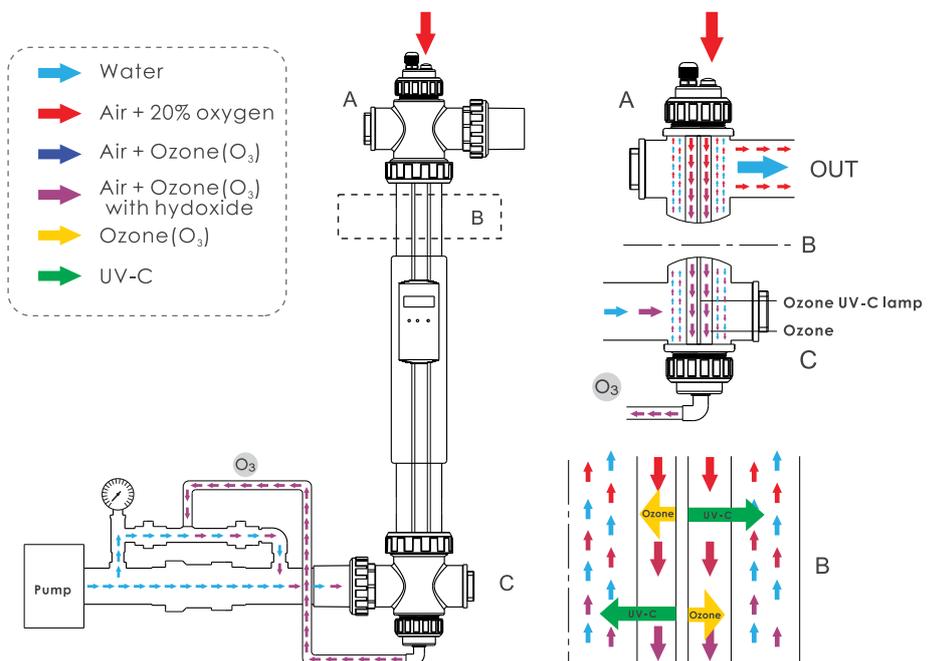


Note : 'O' stands for Ozone, "T" stands for Timer

| Code 230V | Code 120V | Model | Max Flow Rate (m ³ /h) | Pool Vol (m ³) | 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.



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