



 **Emaux**
water technology

FULL RANGE POOL EQUIPMENTS
HIGH QUALITY PRODUCTS
SERVICE & SUPPORT
VALUE FOR MONEY



NANO TECH UV-C DISINFECTION SYSTEM

► Advantages of Installations

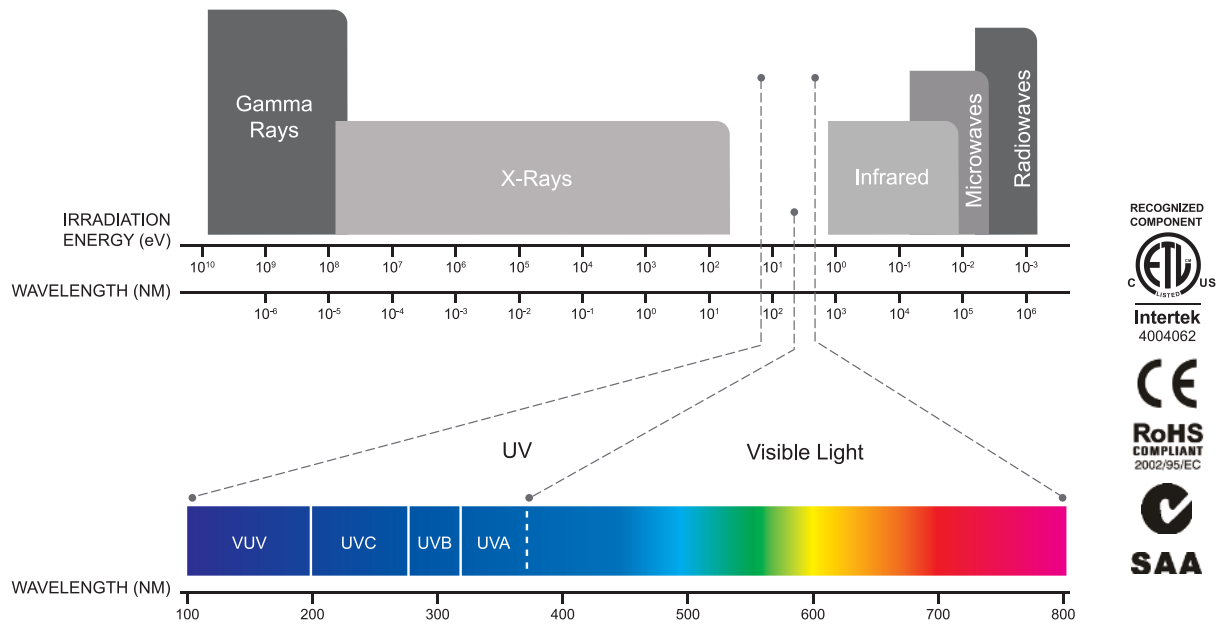
- 1** Crystal clear disinfected water.
- 2** Protects your pool against pathogenic organism and algae:
 - No risk of allergies.
 - The disinfected water is free of unpleasant smells and does not irritate the eyes, thanks to the drastic reduction in the amount of chloramines.
- 3** Environmental friendly:
 - Reduces the chlorine consumption up to 85%.
 - Water renewal is reduced due to fewer by-products formed.
- 4** Enhanced efficiency and easy installation:
 - 316L stainless steel housing, with mirror-polished interior that increases the UV radiation reflection, there by increasing the efficiency by up to 35%.
 - Optional timer to control the running operation hours.
 - User friendly.

► About UV-C

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.

The Nano Tech series of ultraviolet units are applied in the water treatment sector (residual and drinking water) as well as in swimming pools and ponds installations. The UV lamp provides a UV dose of 30mJ/cm², which is sufficient for disinfection of the water and protection against 99.9% chlorine-resistant microorganisms.



► Nano Tech 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

- Residential swimming pools.
- Fish ponds.
- Drinking water residential treatments.

● Product Information

Code 230V 50/60Hz	Code 120V 50/60Hz	Model	Max Flow (m ³ /h)	Pool Volume (m ³)	Input Power	Max. Pressure	Connection	UV Lamp lifetime (hr.)
88049015	88049115	NT-UV16	7	15	16W			
88049016	88049116	NT-UV40	20	40	40W	3 bar	1.5"/2" 50/63mm	9,000
88049006	88049106	NT-UV75	25	75	75W			



► Nano Tech 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 the Nano-Tech UV-C Timer

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

● Main Applications

- Residential swimming pools.
- Fish ponds.
- Drinking water residential treatments.

● Product Information

Code 230V 50/60Hz	Code 120V 50/60Hz	Model	Max Flow (m ³ /h)	Pool Volume (m ³)	Input Power	Max. Pressure	Connection	UV Lamp lifetime (hr.)
88049006	88049126	NT-UV40-T	20	40	40W	3 bar	1.5"/2"	9,000
88049026	88049127	NT-UV75-T	25	75	75W		50/63mm	

Notes "T" : Timer



► Nano Tech 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

- Municipal drinking water treatment systems.
- Municipal waste water treatment systems.
- Process water treatment units.
- Swimming pool treatment systems.

● Product Information

Code 230V 50/60Hz	Code 120V 50/60Hz	Model	Max Flow (m ³ /h)	Pool Volume (m ³)	Input Power	Max. Pressure	Connection	UV Lamp lifetime (hr.)
88049029	88049129	NT-UV130F	30	130	130W	3 bar	1.5"/2"	12000
88049030	88049130	NT-UV130-TF	30	130	130W		50/63mm	

Notes "F" : Flowswitch
"T" : Timer



► Nano Tech 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 of the Nano-Tech UV-C Ozone

- Built-in electronic pre-selector to ensure a smooth power supply
- Up to 35% more UV-C yield as a result of reflection
- Reduces the chlorine consumption up to 95%.
- Ozone UV-C lamp last for 10,000 hours.
- Integrated adjustable time meter for the UV-C lamp.
- Digital indication when the lamp needs replacing.

● Product Information

Code 230V 50/60Hz	Model	Max Flow (m ³ /h)	Pool Volume (m ³)	Input Power	Max. Pressure	Connection	UV Lamp lifetime (hr.)
88049032	NT-UV87-TO	25	90	87W	3 bar	1.5"/2" 50/63mm	10000

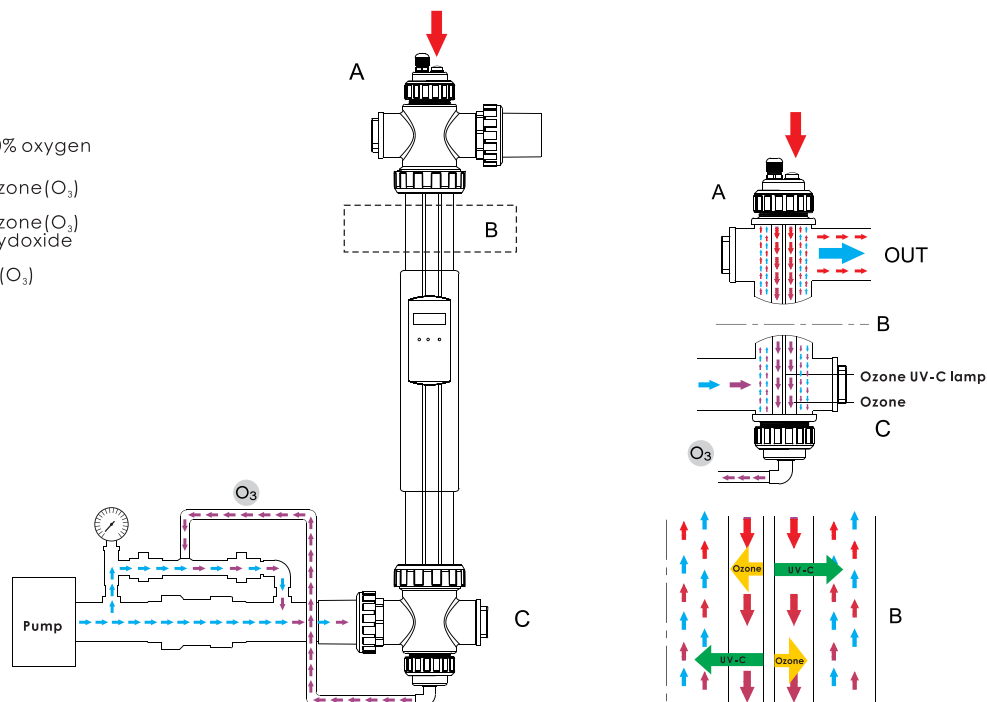
Notes "O" : Ozone
"T" : Timer

► 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.

● Application Icon

- Water
- Air + 20% oxygen
- Air + Ozone(O₃)
- Air + Ozone(O₃) with hydroxide
- Ozone(O₃)
- UV-C



40/2 Soi.37/2, Kingkaew Road, Samutprakarn 10540, Thailand
Tel: 66 2 738 5088-99, 66 2 175 2561-65 Fax: 66 2 738 5299, 66 2 738 4209

Email: sales@poolspa.co.th, projects@poolspa.co.th Website: www.poolspa.co.th