

Nano Tech MPUV Disinfection System

LOW COST HIGH UV EFFICIENCY

For commercial disinfection and chloramine reduction



Controller



Reactor



Applications

- Commercial Swimming Pools and Spas
- Water Features
- Lakes and Ponds

Main Characteristics

1. Easy to install with in-line vessel design
2. Higher UV efficiency
3. Typical UVT is 90% at 60 mJ/cm²
4. Lower power consumption

No harmful chemicals

A Non-Toxic Alternative

The NT-MPUV series of medium pressure ultraviolet units is designed to be an easy to install system giving a cost effective solution for commercial disinfection and chloramine reduction.

Medium pressure UV systems are very effective against highly infectious *Cryptosporidium parvum* and *Giardia lamblia* species which can exist in swimming pool water. These are virtually unaffected by the levels of chlorine used to sanitise swimming pools. The use of chlorine in swimming pools results in the formation of chloramines as a direct result of its interaction with pollutants and it is these that result in eye and skin irritation combined with unpleasant odours.

Reduction of these by utilising medium pressure UV results in a vastly improved water quality in atmospheric environment.

Main Features

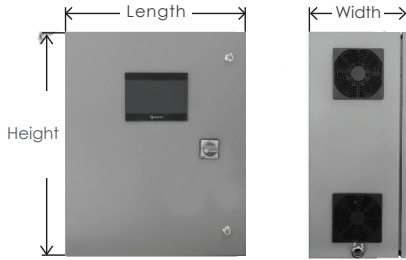
1. Substantial reduction in chloramines
2. Medium pressure UV lamps for maximum oxidation
3. Microprocessor control with data logging
4. Connects to building management systems
5. Automatic "Smartdrive" wiper system as standard
6. Simple lamp replacement
7. 316 L Stainless steel reactor vessel

Pool & Spa Equipment

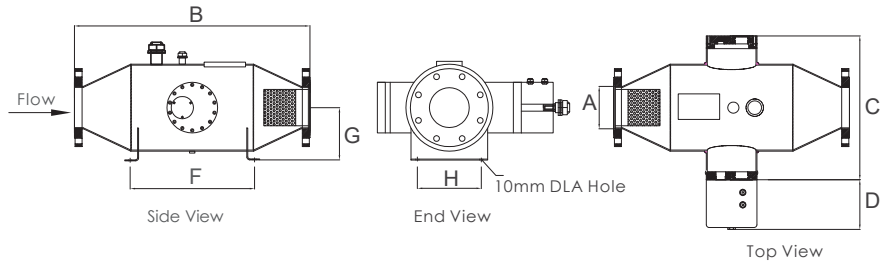
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water technology

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Controller

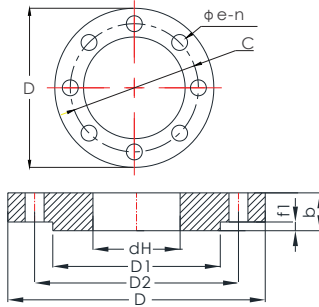


Reactor



Note: UV intensity mJ/cm² requires a 4-20mA signal from a water flow rate measuring device (not supplied)

Flange



DN	Model	D (mm)	D2 (mm)	φ e-n	Bolt Specification	D1 (mm)	dH (mm)	f1 (mm)	b (mm)
DN80	3"	200	160	18-8	M16	132	90.5	2	20
DN100	4"	220	180	19-8	M16	156	116	2	22
DN150	6"	285	240	22-8	M20	211	170.5	2	24
DN200	8"	340	295	22-8	M20	266	221.5	2	24
DN250	10"	395	350	22-12	M20	319	276.5	2	26

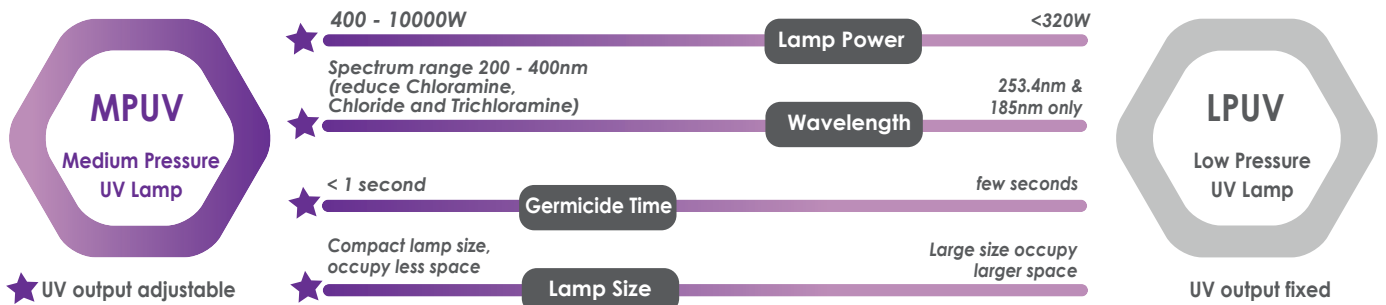
HG-20592 PN 1.0 Mpa Standard flange size

Technical Information and Dimensions:

*Supply rating must be specified with order

Code	Model No	Connection	Flow Rate		Lamp Power (kW)	Supply Rating (V/ph/Hz)	Control Panel Dimension mm (LxWxH)	Reactor Dimensions (mm/inch)						
			m3/h	US gpm				A	B	C	D	F	G	H
931135873	NT-MPUV40	DN80	40	175	1.0	200-240/1/50	600x300x600	80/3.0	740/29.1	422/16.6	195/7.7	300/11.8	200/7.9	170/6.7
931135874	NT-MPUV60	DN100	60	264	1.5	200-240/1/50	600x300x700	100/4.0	740/29.1	422/16.6	195/7.7	300/11.8	200/7.9	170/6.7
931135875	NT-MPUV105	DN150	105	460	2.0	200-240/1/50	600x300x700	150/6.0	800/31.5	422/16.6	195/7.7	400/15.7	200/7.9	170/6.7
931135876	NT-MPUV145	DN150	145	640	2.5	200-240/1/50	600x300x700	150/6.0	820/32.3	585/23	195/7.7	400/15.7	275/10.8	250/9.8
931135877	NT-MPUV170	DN150	170	750	3.0	200-240/1/50	600x300x700	150/6.0	820/32.3	585/23	195/7.7	400/15.7	275/10.8	250/9.8
931135878	NT-MPUV220	DN200	220	970	2x2.0=4.0	200-240/1/50 360-380/3/50	700x300x1100	200/8.0	890/35.0	422/16.6	195/7.7	450/17.7	225/8.8	250/9.8
931135879	NT-MPUV300	DN200	300	1320	2x2.5=5.0	200-240/1/50 360-380/3/50	700x300x1100	200/8.0	890/35.0	585/23	195/7.7	450/17.7	275/10.8	330/13
931135880	NT-MPUV355	DN250	355	1560	2x3.0=6.0	200-240/1/50 360-380/3/50	700x300x1100	250/10.0	890/35.0	585/23	195/7.7	450/17.7	275/10.8	330/13
931135881	NT-MPUV415	DN250	415	1825	2x3.5=7.0	200-240/1/50 360-380/3/50	700x300x1100	250/10.0	890/35.0	585/23	195/7.7	450/17.7	275/10.8	330/13

MP vs LP UV Lamp Comparison:



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