

Nano Tech MPUV Disinfection System

LOW COST HIGH UV EFFICIENCY

For commercial water disinfection and chloramine reduction



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

Applications

1. Commercial swimming pools and spas
2. Water features
3. Lakes and ponds

Pool & Spa Equipment

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

 **Emaux**
water technology



No harmful chemicals

A Non-Toxic Alternative

The NT-MPUV series of medium pressure ultraviolet unit is designed for easy installation. The system provides a cost-effective solution for disinfection and chloramine reduction in commercial pools.

Medium pressure UV systems are highly 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 sanitize swimming pools. As a direct result of its interaction with pollutants, the chlorine in a pool produces chloramines which cause eye and skin irritation and unpleasant odors.

Medium pressure UV systems reduce the side effects and produce a vastly improved water quality and atmospheric environment.

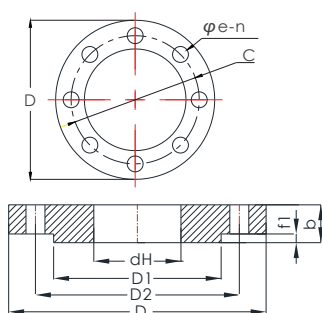
Controller



Reactor

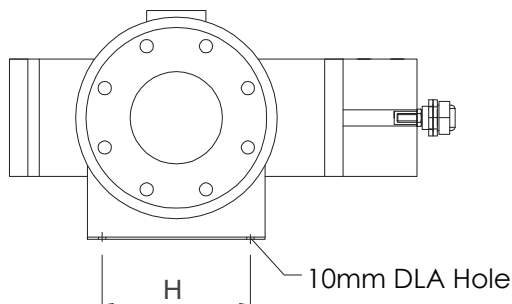


Flange



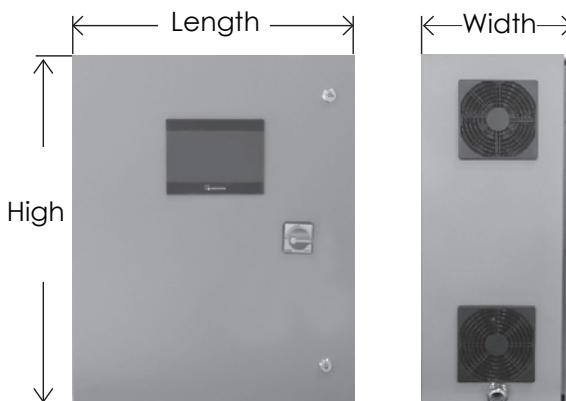
DN	Model	D (mm)	D2 (mm)	$\phi e-n$	Bolt Specification	D1 (mm)	dH (mm)	f1 (mm)	b (mm)
DN80	3"	200	160	18-8	M16	132	90.5	2	20
DN100	4"	220	180	19-8	M16	156	116	2	22
DN150	6"	285	240	22-8	M20	211	170.5	2	24
DN200	8"	340	295	22-8	M20	266	221.5	2	24
DN250	10"	395	350	22-12	M20	319	276.5	2	26

HG-20592 PN 1.0 Mpa Standard flange size



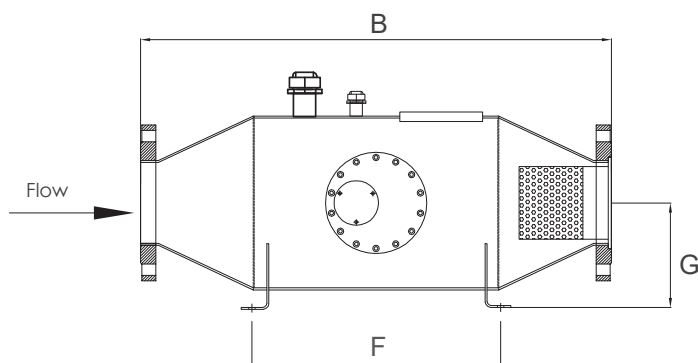
End View

Dimensions of the Controller

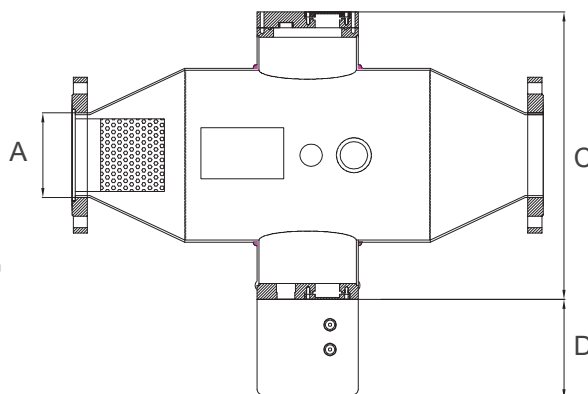


Note: UV intensity mJ/cm^2 requires a 4-20mA signal from a water flow rate measuring device (not supplied)

Dimensions of the Reactor



Side View



Top View

Technical Information and Dimensions:

*Supply rating must be specified with order

Code	Model	Connection	Flow Rate		Lamp Power (kW)	Supply Rating (V/ph/Hz)	Control Panel Dimension mm (LxWxH)	Reactor Dimensions (mm/inch)						
			m^3/h	US gpm				A	B	C	D	F	G	H
931135873(220V) 931137883(380V)	NT-MPUV40	DN80	40	175	1.0	200-240/1/50-60 360-380/3/50-60	600x300x600	80/3.0	740/29.1	422/16.6	195/7.7	300/11.8	200/7.9	170/6.7
931135874(220V) 931137884(380V)	NT-MPUV60	DN100	60	264	1.5	200-240/1/50-60 360-380/3/50-60	600x300x700	100/4.0	740/29.1	422/16.6	195/7.7	300/11.8	200/7.9	170/6.7
931135875(220V) 931137885(380V)	NT-MPUV105	DN150	105	460	2.0	200-240/1/50-60 360-380/3/50-60	600x300x700	150/6.0	800/31.5	422/16.6	195/7.7	400/15.7	200/7.9	170/6.7
931135876(220V) 931137886(380V)	NT-MPUV145	DN150	145	640	2.5	200-240/1/50-60 360-380/3/50-60	600x300x700	150/6.0	820/32.3	585/23	195/7.7	400/15.7	275/10.8	250/9.8
931135877(220V) 931137887(380V)	NT-MPUV170	DN150	170	750	3.0	200-240/1/50-60 360-380/3/50-60	600x300x700	150/6.0	820/32.3	585/23	195/7.7	400/15.7	275/10.8	250/9.8
931135878(220V) 931137821(380V)	NT-MPUV220	DN200	220	970	2x2.0=4.0	200-240/1/50-60 360-380/3/50-60	700x300x1100	200/8.0	890/35.0	422/16.6	195/7.7	450/17.7	225/8.8	250/9.8
931135879(220V) 931137822(380V)	NT-MPUV300	DN200	300	1320	2x2.5=5.0	200-240/1/50-60 360-380/3/50-60	700x300x1100	200/8.0	890/35.0	585/23	195/7.7	450/17.7	275/10.8	330/13
931135880(220V) 931137823(380V)	NT-MPUV355	DN250	355	1560	2x3.0=6.0	200-240/1/50-60 360-380/3/50-60	700x300x1100	250/10.0	890/35.0	585/23	195/7.7	450/17.7	275/10.8	330/13
931135881(220V) 931137824(380V)	NT-MPUV415	DN250	415	1825	2x3.5=7.0	200-240/1/50-60 360-380/3/50-60	700x300x1100	250/10.0	890/35.0	585/23	195/7.7	450/17.7	275/10.8	330/13

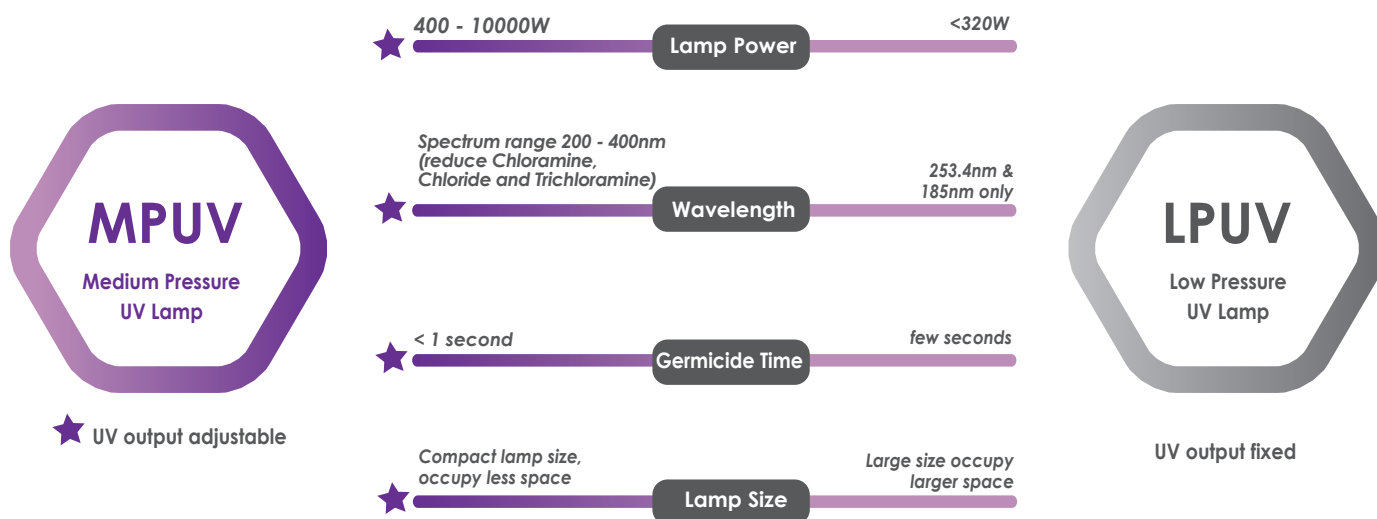
MP vs LP UV Lamp Comparison:

A medium-pressure (MP) UV lamp (400w-10000W) has higher sterilization efficiency and shorter sterilization time than a low-pressure (LP) lamp (below 320W).

MPUV lamp has wider wavelengths, illumination in the range of 200–400 nm, and is effective for the removal of bacteria, viruses, chloramines, chlorides, and trichloramine. So they are suitable for use in public swimming pools. The low-pressure UV lamp can only emit a single wavelength at 254 nm, limiting the field of use.

Also, the MPUV lamp greatly reduces the size of the UV reactor and the number of UV lamps used, so the volume is relatively small. In contrast, low-pressure (LP) UV lamps are longer in size as wattage increases, so a slightly higher power low-pressure UV system needs more place.

The control system of the MPUV lamp can automatically adjust the energy of the UV output, while that of the LPUV lamp cannot.



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