

UltraBlue UV System - ULTRABLUE Series

Function

ULTRABLUE swimming pool UV system is the result of extensive scientific research and R&D activities, aimed at optimizing disinfection, reducing chloramines, and ensuring crypto/giardia safety in swimming pools. The system effectively lowers combined chlorine levels, improves air quality, and provides healthier water for swimmers.

To minimize operating costs, the reactor geometries and electronic control systems have been designed with large, flanged connections and body geometry resulting in minimal head loss even at high flow rates. Its intelligent PLC control enables automatic operational efficiency through lamp dimming based on combined chlorine sensing via UV sensor

Reactor comes with an automatic wiper with a variable brush head for the UV sensor window cleaning.



Specifications

Reactor Material

AISI316L stainless steel

Orientation of Connections

In-line Vertical or Horizontal installation.

Temperature Protection

pT-100 - Titanium housing
2x thermo-switch

UV intensity sensor (Optional)

PTFE UV sensor

Quartz sleeve wiping system

Fully automated system

Operating Pressure

up to 10 bar

Power Supply

230V AC / 400V AC, 50Hz - 60Hz

Controller type: PLC

Cabinet Interface / HMI

Digital display / 4" display

Control Cabinet Material

Powder coated steel

Control cabinet Installation

Wall mounted

Control cabinet Operating temp.

0 - 40 °C

UV Lamp failure indicator: Yes

UV Lamp power level indicator: Yes

UV Lamp lifetime monitoring: Yes

Lamp Cable length

4meters (Max. 30 m)

UV Lamp type

UltraTherm medium Pressure series

Electronic HF Modbus

UV Lamp power dimming

ULTRADOSE 30% - 100%

UV Lamp life

9000 H

SCADA

MODBUS

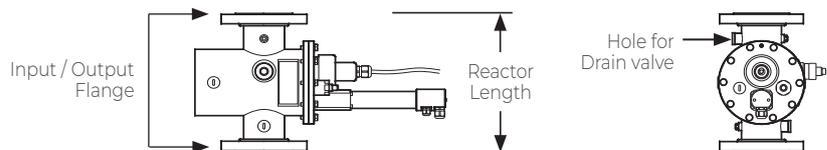
Approvals

CE

Protection

Reactor: IP68

Cabinet: IP54



Model No.	No. of Lamps	Power/ Lamps (W)	Inlet/ Outlet	40mJ/cm ² Max. Flow m ³ H	60mJ/cm ² Max. Flow m ³ H	Reactor Length (mm)	Cabinet Power Supply (V AC)	Cabinet Power (kW)	Cabinet Dimensions (mm)
ULTRABLUE1-600SS	1	600	DN80	34	31	320	230	0.69	700x500x260
ULTRABLUE2-600SS	2	600	DN100	79	68	340	230	1.38	700x500x260
ULTRABLUE1-2500SS	1	2500	DN150	146	139	360	230	3.22	800x800x300
ULTRABLUE2-2500SS	2	2500	DN200	348	338	400	230	5.52	800x800x300
ULTRABLUE2-4000SS	2	4000	DN250	545	409	420	400	16.63	1000x800x400
ULTRABLUE3-4000SS	3	4000	DN300	1050	908	480	400	16.63	1000x800x400

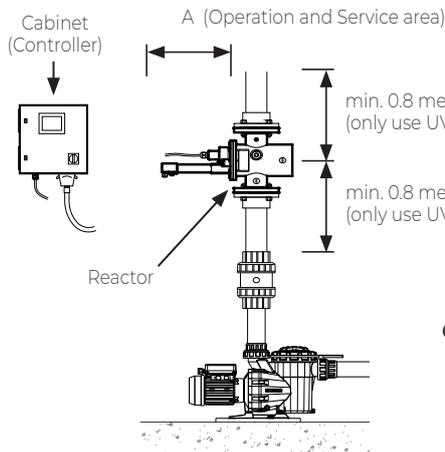
Ultra Violet System	ULTRABLUE Series	Model No. ULTRABLUE	Rev. 1	
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1. Max. Flow for general disinfection calculated at UV95%, min. UV dose 40 mJ/cm² and 60 mJ/cm². Contact Aquashi for flow rates of higher or lower UV dose.
2. Holes and connections of Reactor can change depending on reactor size and type.
3. Lamp access is important.

Typical Installation



- * Use only UV resistant materials within 0.8 meter from UV Reactor.
- * Safe distance to non-UV resistant materials above 0.8 meter

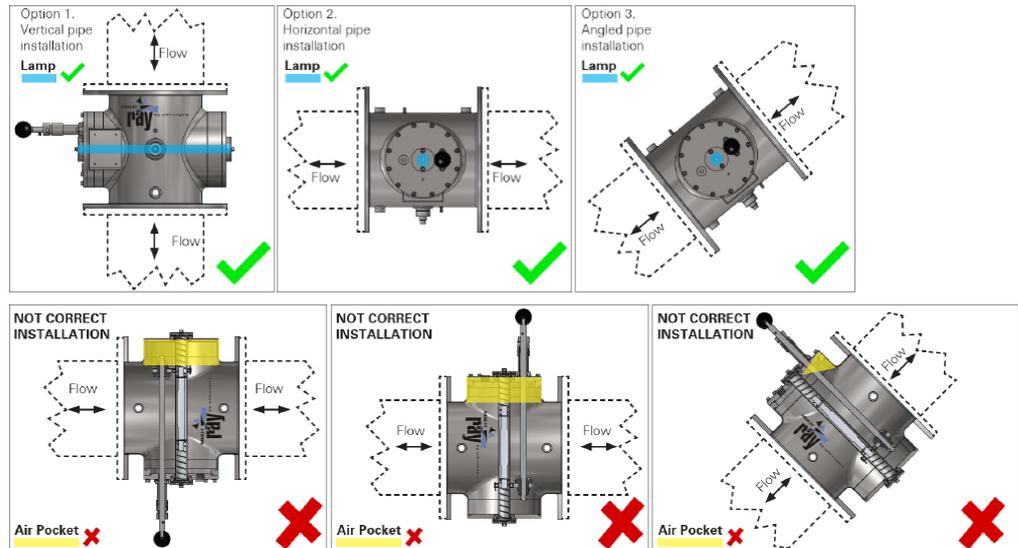
A Operation and Service area	for Model No.
0.35 meter	UB1-600SS, UB2-600SS
0.5 meter	UB1-2500SS, UB2-2500SS
0.63 meter	UB2-4000SS, UB3-4000SS

Installation Guide to avoid air pockets created by pipe configuration



Do not install UV system in a pipe section which can accumulate air pockets.

Installing the reactor incorrectly will also place the lamp vertical. this will result in premature failure of the lamp which leads to overheat, causing system damage. Do not do it!



Accessories (Spare Parts)



UV Lamp

- * UV-600 (for ULTRABLUE1-600SS, ULTRABLUE2-600SS)
- * UV-2500 (for ULTRABLUE1-2500SS, ULTRABLUE2-2500SS)
- * UV-4000 (for ULTRABLUE2-4000SS, ULTRABLUE3-4000SS)

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