

**WATERRO LTD**

VAT.Nr.LV40203438825

Warehouse address: Zāļu iela 6, Rīga, LV-1004

Web-page: www.waterro.euE-mail: evgenia@waterro.eu

AMALGAM UV FILTERS

1. What mean amalgam? How we can use it in UV lamps?

The Amalgam — It's special composition of mercury with other metals, specially with indium and bismuth.

Usual Mercury UV filter use the mercury gas inside of the UV lamp.

Amalgam UV lamps use the AMALGAM type of mercury.

How it works?

When the light source was turned on, the supplied electric current heated the amalgam - and only then did it release the mercury needed to produce light

When turned off, the mercury cooled and returned to the amalgam again.

So it means, that the working process of UV lamp coming much more optimal.

2. Why the Amalgam UV lamp, better then usual Mercury UV lamp?



SAFETY

In non-working mode no any free mercury inside of the UV filter, because it situated on the amalgam mode. It means, if the UV lamp damages It safety for the people and animals.



POWERFULL

It is not just higher than the performance of mercury analogues - amalgam models are several times more powerful. The bactericidal flow of such a lighting element turned out to be extremely dense - and this made it possible to create reliable and efficient production equipment based on them



LONGLIFE

The life of amalgam UV lamps twice longer then for usual mercury UV lamps!

16000H for AMALGAM instead of 8000-9000H for usual Mercury UV lamps



ECONOMIC BENEFIT

- Every Watt of electricity spent works for you and for your clients!

- Bigger flow with the same or less power comparing with mercury UV filters

- Working twice longer, then mercury UV filter

CORRELATION TABLE

Compared models	UV160W =80W*2	UV165W =55W*3	UV400W =80W*5	UV440W =55W*8	UV560W =80W*7	UV600W =150W*4
Power, W	160	165	400W	440W	560W	600W
Working flow, T/H	8,5	8,1	25,1	21,6	40	32
UV intensity, UW/cm2	520	480	1300	1280	1820	1680
UV wave length, Nm	253,7nm	253,7nm	253,7nm	253,7nm	253,7nm	253,7nm
UV lamp length, mm	846	931	846	931	846	1554
UV lamp diameter, mm	15	15	15	15	15	15
Connection type, pin	4 pin	4 pin	4 pin	4 pin	4 pin	4 pin
Life time, Hour	16000	8000	16000	8000	16000	8000

AVAILABLE MODELS



MODEL NAME	Normal power,W	UV intensity, UW/cm2	UV wave length, Nm	Flow Rate, T/H	IN-OUT, inch
Amalgam UV sterilizer WATERRO UV 80W = 80W*1	80W	260	253,7nm	4,5	1"
Amalgam UV sterilizer WATERRO UV 160W = 80W*2	160W	520	253,7nm	9	1,5"
Amalgam UV sterilizer WATERRO UV 320W = 80W*4	320W	1040	253,7nm	16,2	DN65 FL
Amalgam UV sterilizer WATERRO UV 400W = 80W*5	400W	1300	253,7nm	21,6	DN80 FL
Amalgam UV sterilizer WATERRO UV 560W = 80W*7	560W	1820	253,7nm	40	DN100 FL
Amalgam UV sterilizer WATERRO UV 720W = 120W*6	720W	2100	253,7nm	60	DN125 FL
Amalgam UV sterilizer WATERRO UV 960W = 120W*8	960W	2800	253,7nm	100	DN150 FL