ARKLITE®
SPECIALITY LAMPS
AN ISO 9001:2015 CERTIFIED COMPANY

UV DISINFECTION SYSTEMS FOR WATER & WASTEWATER TREATMENT

PHARMACEUTICALS

ETP / STP TREATMENT

FOOD & BEVERAGE

HOSPITALS

OPEN CHANNEL DISINFECTION

BOTTLING PLANTS

SWIMMING POOLS

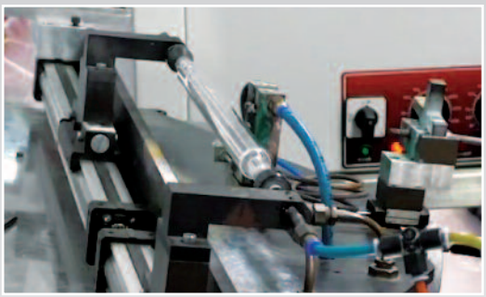
CORPORATE OFFICES

ARKLITE®
SPECIALITY LAMPS
AND UV DISINFECTION SYSTEMS

ARKLITE -

Who we are and what we do

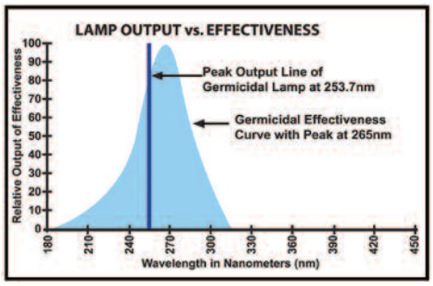
ARKLITE Specialty Lamps Pvt. Ltd. was established in 1996 at Chakan, Pune. We are the leading manufacturer of specialty lamps, based on quartz glass technology in South and East Asia.



We are the **sole producer** of specialty lamps that include UVQ germicidal lamps, Medium pressure mercury UV curing lamps and high wattage lamps in India. We also provide systems for water disinfection, TOC reduction and and their accessories like sensors etc.

Our ISO 9001.2015 certified unique quartz processing facility, is capable of manufacturing a diversified range of UV lamps ranging from 6 watts low pressure germicidal lamps to 6500 watt medium pressure lamps which are the back bone of our state-of-the-art WD sysytems based on UV lamps.

The concept of water disinfection by exposing it to Ultra Violet (UV) rays has been around for over a century. A band of light in the range of 100 to 380 nm, just shorter in wavelength than the visible band of light, is known as UV light. For the purpose of disinfection, i.e. the germicidal action, the UV band between 200 and 300 nm is most effective as shown in the below figure.



This band of UV light has the ability to inactivate bacteria, viruses and protozoa by breaking down the bonds in their DNA, thus killing them as they cannot multiply.

Advantages:

- Needs no chemicals and leaves no residue.
- No harm caused by over dosage; in fact it leads to higher kill rate.
- No disinfection by-products.
- No impact on aesthetic quality of water in terms of taste and mineral content.
- Effective at wide range of pH and does not alter pH of water.
- Destroys all microbes, including bacteria, viruses, fungi, and protozoa.
- Even destroys cryptosporidium (cause of diarrhoea infection) which is resistant to chlorine treatment.
- Totally safe to operate and environment friendly.
- Compact, needs minimum floor space.
- Easy to install and maintain.
- Most energy efficient, as compared to any other process.
- Low capital and operating costs.

Applications:

ARKLITE water disinfection systems find wide usage in industry, commercial establishments, residential complexes, municipal corporations, schools, colleges, etc. Some of the applications of ARKLITE systems are given below:

- Beverage and packaged drinking water plants
- Water treatment plants
- Residential drinking water
- Drinking water facilities
- Pharmaceutical plants
- Effluent Treatment Plant
- Sewage Treatment Plant
- Poultry farm water treatment
- Aqua Culture
- Hospitals
- Manufacturing
- Automobiles
- Hotels
- IT Parks

Watmizer®:

Saves energy and ensures Indoor Air Quality

AeroPro®: TB Rakshak

Makes your air pure and healthy

Duct Zapper®:

Keeps air clean and odourless

VRF OZ Shield®:

Improves air quality by oxidation and increases energy efficiency

ARKLITE Water Disinfection Systems from 0.5 CMH to 125 CMH

Model No	Maximum Flow rate	UV Reactor dimensions L*W*H (mm Max)	Inlet/ outlet Size	Control Panel L*W*H (mm)
AWWS 01	0.5	525 X 100 X 125	1 inch	305 X 255 X 50
AWWS 02	1	525 X 100 X 125	1 inch	305 X 255 X 50
AWWS 03	2	525 X 100 X 150	1 inch	305 X 255 X 50
AWWS 04	4	1025 X 100 X 150	1 inch	305 X 255 X 50
AWWS 05	5	1025 X 100 X 150	1 inch	305 X 255 X 50
AWWS 06	7	1025 X 150 X 200	1 1/4 inch	500 X 430 X 105
AWWS 07	10	1025 X 150 X 200	1 1/2 inch	500 X 430 X 105
AWWS 08	15	1050 X 300 X 325	2 inch	500 X 430 X 105
AWWS 09	25	1050 X 300 X 325	2 inch	500 X 430 X 105
AWWS 10	35	1650 X 500 X 300	DN 80	500 X 430 X 105
AWWS 11	50	1650 X 500 X 300	DN 80	500 X 430 X 105
AWWS 12	85	1650 X 550 X 350	DN 150	500 X 430 X 105
AWWS 13	125	1650 X 640 X 420	DN 150	500 X 430 X 105
ADWS 15	0.5	485X70X105	3/4"	-
ADWS 16	0.25	325X70X105	1/4"	-

Above sizing is based on 98% UVT which is typical to RO/DM outlet water. In case your water quality is different, please contact us for appropriate wattage. Technical specifications are constantly being improved and are subject to change at any time. Please contact us in case of any doubt.

Key Features:

- Flow rate: 0.5CMH to 125CMH
- SS304/316 cylindrical reactor, internally & externally mirror finished
- Designed for requisite number of UV lamps and quartz jackets
- Necessary O-Rings and Resting Brackets provided
- Inlet and outlet size as per flow rate
- Designed for 60mJ/cm^2 for waste water treatment with UV transmission in water of 75%
- Control Panel with high frequency electronic ballast.
- Temperature: 4-45°C.
- Lamp Failure/ Replace indicator.
- QT - >95% UVT.
- Lamp Wattage on request.
- Max operating pressure: 80-120 psi.

Dealer Stamp

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EFFECTIVE, ECONOMICAL AND ENVIRONMENT FRIENDLY

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