



Sukrut CWS™
Reliable UV protection from waterborne microorganisms

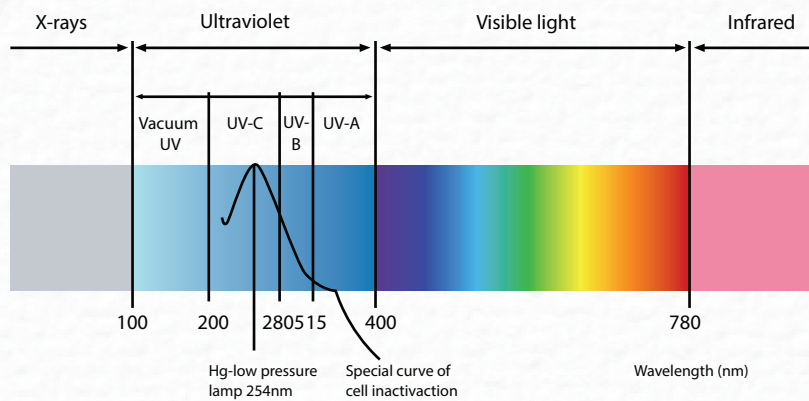
CWS™ Series

Sukrut CWS™ is a range of high quality industrial UV systems for reliable protection of industrial process water from all types of waterborne bacteria, viruses, protozoa, cysts, oocysts, moulds, algae and other microorganisms. Certified to Australian WaterMark Level1, equivalent to NSF/ANSI 61, Sukrut CWS™ UV systems are powerful weapons in the war against waterborne diseases.

Sukrut CWS™:

Quality certified to Australian WaterMark Level1 equivalent to NSF/ANSI 61

We are the first Indian manufacturer to achieve international product quality certification for our UV systems. Quality of CWS™ UV systems have already been independently tested by accredited laboratories in Australia and certified to WaterMark Level1 equivalent to NSF/ANSI 61 standard.



Proven protection from all types of microorganisms:

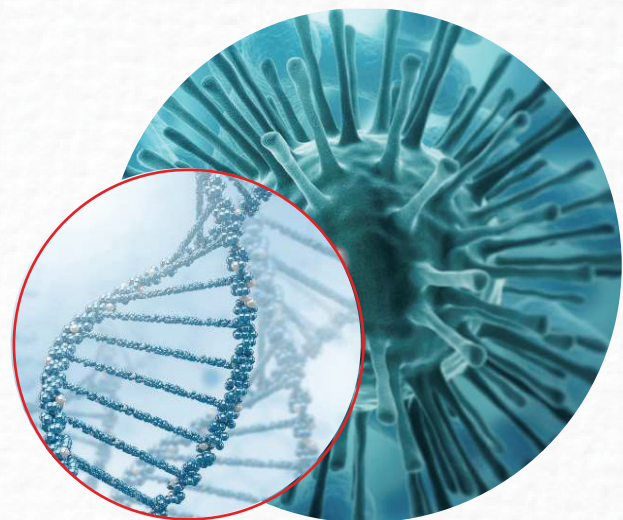
High and uniformly distributed UV dose levels in Sukrut CWS™ UV units provide reliable protection from all types of microorganisms. Power quartz UV lamps tuned with efficient electronic ballasts and hydraulically designed

UV reactors deliver lethal UV dose to damage DNA/RNA of all types of pathogenic microorganisms to protect your water.

Thousands of Sukrut CWS™ UV systems have proven their disinfection performance across a multitude of applications.

Application support to solve your microbial challenges

Sukrut CWS™ UV units are backed by expert application support for your specific application. Experienced Team Sukrut is always available to discuss your applications and how to get best value from your CWS™ UV unit. Ask your Sukrut UV representative how to most effectively solve your application challenges.



UV dose

$$\text{UV dose} = \text{Intensity of UV-C radiation} \times \text{Exposure Time}$$

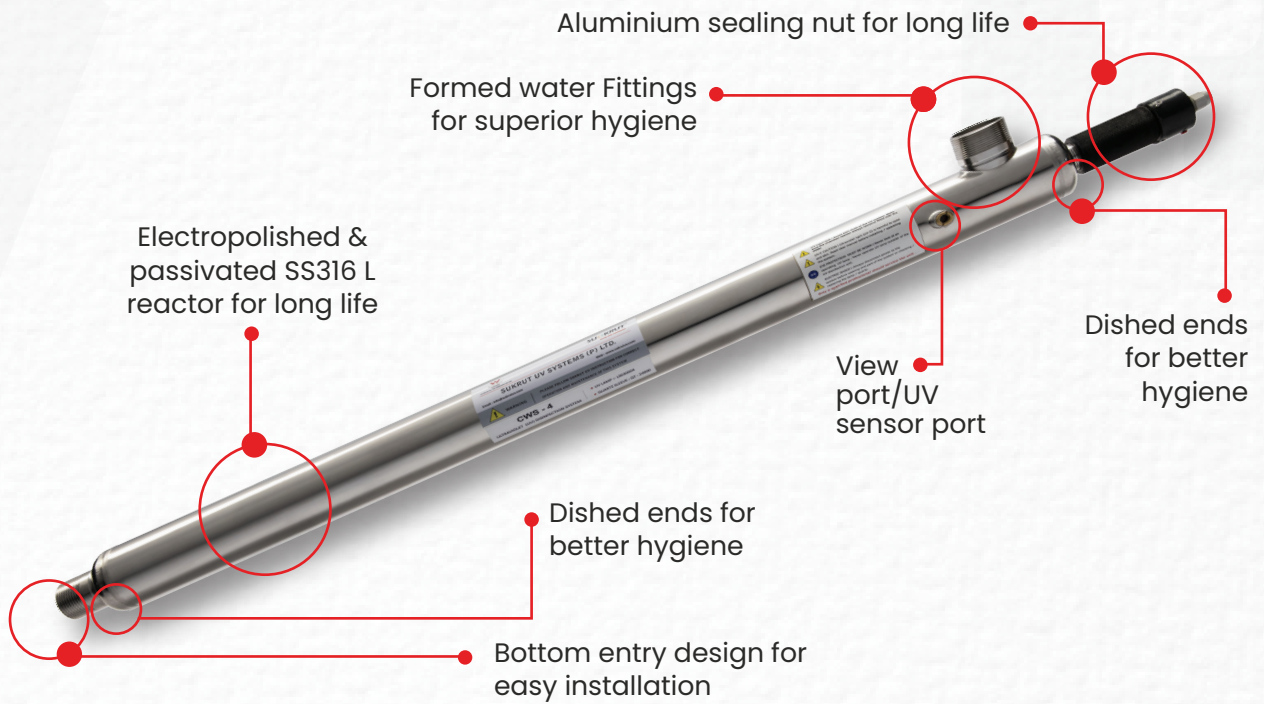
$$[\text{J/m}^2] \quad [\text{W/m}^2] \quad [\text{seconds}]$$

UV dose is expressed as

Joules/m² [J/m²] or as micro-Watt-Seconds/cm² [uWs/cm²]

$$300 \text{ J/m}^2 = 30 \text{ mJ/cm}^2 = 30 \text{ mW-s/cm}^2 = 30,000 \mu\text{W-s/cm}^2$$

CWS™ Series



More hygienic, built to last UV reactors:

Sukrut CWS™ uses superior SS316L reactors including dished ends and formed water fittings for better hygiene inside the reactor. As a result, formed water fittings and dished ends don't allow any crevices for microbes to hide from powerful UV radiation.

From design to manufacturing, Sukrut CWS™ reactors are built tough to serve you for many years. As a testimony to our product quality, reactors built more than 25 years back are still in serving happy customers.

CFD Optimized hydraulic design for uniform UV dose distribution:

As water flows around UV lamp, particles travelling close to the UV lamp are exposed to higher UV intensity, while those travelling away from the reactor wall are exposed to a lower UV intensity. To minimize this effect, Sukrut CWS™ reactors are optimized with CFD to provide a uniform UV dose distribution.



10 bar (145PSI) Operating Pressure. Guaranteed:

Sukrut CWS™ UV systems are guaranteed to work at 10 bar operating pressure when installed and used correctly. If your application requires higher operating pressure (e.g. high pressure systems for large buildings), please contact your Sukrut UV representative.

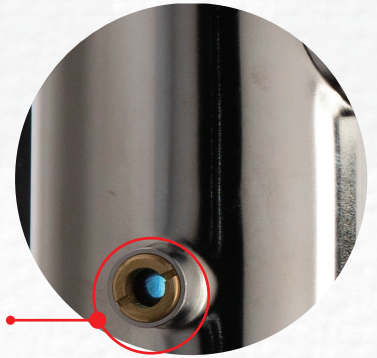


CWS™ Series

Easy to Install, use and maintain:

- Bottom entry design makes Sukrut CWS™ UV systems easy to install in most piping designs.
- The quartz tube is easy to install and clamp-on SS316L brackets let you install the Sukrut CWS™ unit the way you want.
- The view port provides visual confirmation of UV lamp operation and can be used to install a UV sensor if required.

View port for confirmation of UV lamp operation.
Also ready to install UV sensor



Options

You can order a variety of options with Sukrut CWS™ UV units, including

- We offer a wide choice of power supplies ranging from simple power supplies, to PLC driven power supplies with UV intensity sensor and data logging capability. Discuss your requirements with your Sukrut UV representative for the best match.
- UV intensity sensor and monitor
- Thermostat for temperature management
- Higher operating pressure
- Ozone producing UV lamps
- Manual quartz tube wiper
- Remote on/off functionality



PRO power supply



i80 power supply



BRK-40 power supply

Applications

You can order a variety of options with Sukrut CWS™ UV units

Disinfection of

- Drinking water
- Process water in wide range of industries
- Food & beverage water
- Dairies
- Rainwater
- RO feedwater
- RO permeate

Sukrut CWS™ Series has proven performance for

- DM plants
- Water treatment plants
- Sotienner plants
- Water filtration plants

Sukrut CWS™ Series can be configured for applications including

- Ozone destruction
- TOC reduction
- Low UVT water disinfection