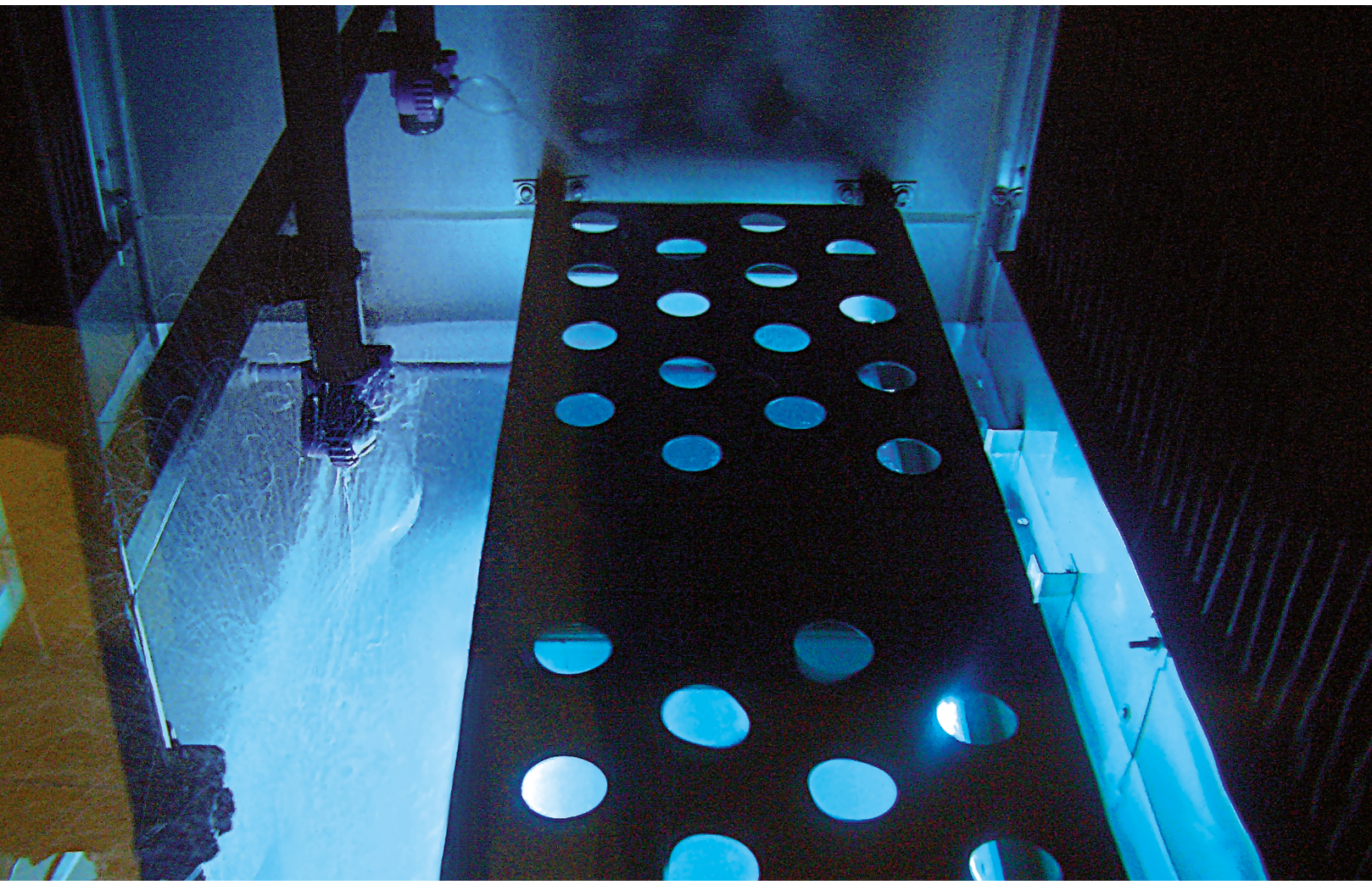
Heraeus

Noblelight



DTS® Immersion Tube Systems

Robust, watertight and highly efficient immersion tube system for disinfection of water, air and surfaces

The robust UV-C immersion tube system is designed for efficient disinfection of water, air or surfaces. It consists of high power UV-C lamps mounted in the highest quality and sturdy quartz sleeve tubes and a ready-to-connect robust ballast.

DTS® immersion tube systems are completely watertight for underwater operation (IP68).

The system is pressure tight up to 2 bar. If mounted via the flange on the tank wall, the immersion system can be operated up to 10 bar overpressure.

Flange mounting is possible with anti-rotation lock or optionally by means of stainless steel clamps.

Optionally, the DTS® system is available with shatter protection (pressure resistant up to 2 bar) for IFS-compliant applications. The optional metal-free version, where the head part is made of plastic, is suitable for high-purity water applications or for applications in highly corrosive environments.

Alternatively, cable lengths from 3 to 20 meters are available for easy integration into your environment.

Application areas of the DTS® submersible modules

- Water disinfection in tanks and storage vessels
- Surface disinfection of evaporator fins and heat exchangers
- Installation between transport rollers for surface disinfection
- Water disinfection in humidification in HVAC systems
- Knife disinfection in cutting device systems
- Air disinfection in clean rooms and cold storage rooms
- Disinfection of the inside of large packaging containers
- Process water disinfection
- Operation in water/in air/on surfaces

Advantages of the DTS® submersible modules

- Fully waterproof (IP68)
- Robust industrial design without fine thread
- Easy lamp replacement without tools
- Secure connection of the quartz tube
  - No accidental removal possible
  - Suitable for vacuum (fast tank emptying)
- Head section internally grounded for high wattage lamps
- 60 – 300 W lamp power
- Modular system with many additional options
- Plug & Play system for easy integration
- Multiple lamps per system are possible

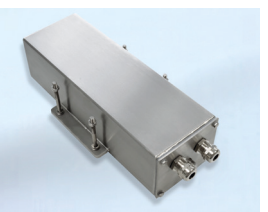
Subject to technical changes. Image source: Peschl Ultraviolet GmbH
HNG UVP174E/05.22

Optional versions

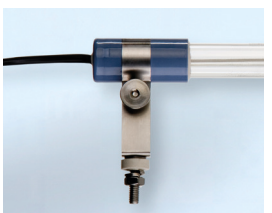
Shatter protection for IFS-compliant applications

Metal-free design for high purity water applications or for use in highly corrosive environments

EMC version for high lamp power



Industrial ballast, stainless steel housing with venting membrane (IP67) for rugged applications

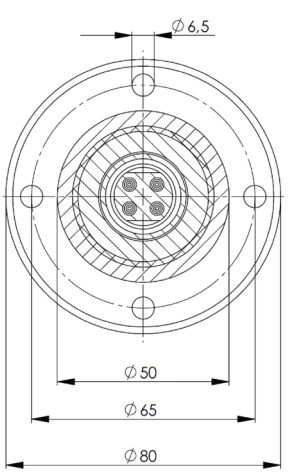


Clamp for easy Mounting

Technical data

System	60 Watt	120 Watt	200 Watt	300 Watt
Available with (emitters)	2	2	2, 4, 8	2, 4
Protection class immersion tube system	IP 68	IP 68	IP 68	IP 68
Length connection cable (m)*	3	3	3	3
Radiator type	NNI 60/35 XL	NNI 125/84 XL	NNI 201/107 XL	NNI 300/147 XL
Radiation flux @ 254nm (Watt)	20	43	50	105
Typical useful life (h)	16.000	16.000	16.000	16.000
Immersion depth (mm)	354	960	1207	1617
Sleeve tube diameter (mm)	25	25	28	28

* Other lengths available upon request



Dimensions of flange through hole in tank 30 – 34 mm

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