

# VISADES - Model T80

**VISADES**  
UV-TECHNOLOGY

Top Class  
UV Water Disinfection

Single emitter system



# UV Drinking Water Disinfection System T80 , with Controller VGN 6180

## Irradiation Chamber

Type	T80
Material	1.4301
Operating Pressure	10/16 bar
Diameter	105 mm
Height (with LT cap)	1200 mm
Fill Capacity	8,78 Liter
Tare weight	6,7 kg
Fitting connections	R 6/4"
Flow capacity	4,2 m <sup>3</sup> /h at 85% UV-transparency
Water temperature	+4 to +30 °C
Ambient temperature	+5 to +40 °C
Number of emitters	1
Power required	90 Watt
Power supply	230 V / 50Hz

## Controller

Type	VGN 6180
Power connection	230 V / 50 Hz
Total power	90 W
Supply breaker	10 A
Breaker for power component	4A
Protection	Ground conductor system
Class of protection	IP64
Temperature class	T40
Outside dimensions (WxHxD)	300 x 300 x 130 mm
Mounting method	275 x 275 mm, D 6 mm
Weight	4,5 Kg

## Emitter

Emitter type	VISADES ST60 (80W)
Emitter lifespan	8000 h
Power per emitter	80 Watt
UVC power per emitter	26,7 Watt

For UV disinfection of potable, process, and waste water.

Areas of application: Drinking water supply, industry (pharma, food, processes, etc.)  
Snowmaking systems, wastewater disinfection, special applications upon request.

Model tested by government-authorized test center per Austrian Standards Institute M5873-1, Method B (Facility conforming to Austrian Association for Gas and Water requirements, without additional transmission measurement.) Build in accordance with Austrian Standards Institute M5873-1, Method B, Austrian Food Standards, Chapter B1 Drinking Water, CE-conformity. Austrian Association for Gas and Water Certificate

Approved for use at: +4 to +30°C

Flow capacity 3,71 m<sup>3</sup>/h at UV transmission of 70% (T<sub>R100</sub>, 254nm) based on a minimum irradiation dose of 400J/m<sup>2</sup> (per Austrian Food Standards, Edition III, Chapter B1 Drinking Water), after and expected useful emitter life of 8,000 operating hours in continuous operation.

## Scope of Delivery

- 1 Stainless steel irradiation chamber, Material 1.4301
- 1 Dip tube made of high-quality quartz glass
- 1 powerful UVC low-pressure emitter, 80W
- 1 UVC sensor per Austrian Standards Institute M5873-1, to monitor irradiation strength
- 1 Electronic controller, 80W, for the UVC emitters, mounted on the irradiation chamber, low energy consumption
- 1 Microprocessor controller with LCD display, with wash-down safe plastic enclosure and flat touchpad, for local installation, and up to 25m cable length to the irradiation chamber.
- Connectors for UVC sensors, selective, remote on switch, locking valve, or pump control rinse valve, external fault message, optional integration with all common process control systems, optional text message transmission for faults or irradiation monitoring.

## Control Functions

- Operating hours counter on the UV emitter
- Switch-on impulse counter on the UV emitter
- Operating status of the system
- Pre-warning alarm P1
- Limit alarm P2
- Digital display of irradiation intensity in W/m<sup>2</sup>
- Rinsing at intervals
- 2-color LED display, Run/Fault, for each emitter

## Expansion Capability

- Text message cell phone module
- Instabus – EIB connection
- External full graphical display, interactive, CAT-5 cabling, etc.
- Gateways: AS-i, ProfiBus, CANopen, DeviceNet
- Analog output 0-10V
- 16 bar model

## Additional documentation at [www.visades.com](http://www.visades.com)

CAD drawings, descriptions, overview brochures, documentation for special applications  
Certifications, photos, and much more.

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**VISADES Technology & Development GmbH**  
A-5023 Salzburg, Mauermannstrasse 2  
Phone: +43-662-871224-0 FAX: DW-10  
Email: [info@visades.com](mailto:info@visades.com) Internet: [www.visades.com](http://www.visades.com)