

# VISADES TM4500

*Operating data storage* ✓

*Colour touch screen* ✓

*FlexFlow - Flow rate control* ✓

**VISADES**  
UV-TECHNOLOGY

**UV - Water disinfection  
with the power of the sun**

Certified for official  
Drinking water supply



# UV – Drinking Water Disinfection System TM4500 with Controller VD 4500 TFT

Model tested by government-authorized test center per Austrian Standards Institute M5873-2, Method B. Without additional transmission measurement. Build in accordance with Austrian Standard Institute M 5873-1 Method B, Austrian Food Standards, Chapter B1 Drinking Water, CE-conformity. **ÖVGW-Certificate, SVGW-Certificate.**

The specified flow capacity is based on a minimum irradiation dose of 400 J/m<sup>2</sup> at UV-transparency 80% Tr100, 254nm (per Austrian Food Standards, Edition III, Chapter B1 Drinking Water) after a minimum useful emitter life of 9000 operating hours in continuous operation.

## Irradiation-Chamber:

<b>Model</b>	<b>TM4500</b>
Material	1.4301
Operating Pressure	16 bar
Diameter	460 mm
Height	959 mm
Height f. emitter change	1800 mm
Fill Capacity	91 Liter
Tare weight	96 kg
Fitting connections	DN300 PN 16
Flow Capacity	805,1 m <sup>3</sup> /h at 60% UV- transparency
Water temperature	+1 bis +45 °C
Ambient temperature	+5 bis +40 °C
Number of emitters	3

## Emitter:

<b>Type</b>	<b>VISADES ST5800</b>
Emitter lifespan	3000 h
Power per emitter	5800 Watt
UVC power per emitter	870 Watt

## Controller:

<b>Type</b>	<b>VD 4500 TFT</b>
Power connection	400 V / 50 Hz
Total power consumption	19000 Watt
Supply breaker	63 A
Breaker for power compon.	3x 16A
Protection	Ground conductor syst.
Class of protection	IP54
Temperature class	T40
Dimensions (BxHxT)	800 x 1000 x 400 mm
Mounting dimensions	850 x 950 mm, D 6 mm
Weight	85 Kg



## More information on [www.visades.com](http://www.visades.com)

CAD – drawings, folder, model overview, documentations, certificates, photos and more

## System consists of:



- Stainless steel irradiation chamber, Material 1.4301
- 3 glass tube made of high-quality quartz glass
- 3 Powerful UVC medium-pressure emitter 5800W
- 1 Selective UVC-Sensor, per Austrian Standards Institute M5873-1, to monitor irradiation strength
- 3 Electronic ballast 6000W with soft-start function for a long lamp life
- 1 Microprocessor controller, installed in a splash proof powder-coated steel housing
- Remote on switch. Shut-off valve, pump control, flush valve, external fault messages, optional integration with all common process control systems, optional text message transmission for faults or irradiation monitoring
- Connections für sampling faucets
- **User interface 4.3" colour touch screen**
- **Resolution 480x272, 65000 Colours**

## 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)
- Display of irradiation intensity in W/m<sup>2</sup>
- Fully adjustable flushing
- Emitter status display
- **UV-value analog output 0-10V, 4-20 mA**
- **Temperature monit. for UV chamber and Control**
- **Programmable data storage on USB stick**
- **Processing of daily water consumption \***

## Expansion Capability:

- GSM module for SMS communication and alerts
- Instabus – EIB connection
- **ModBus Interface**
- **FlexFlow: regulating flow meter over a control valve \***
- **Control Terminal**
- **Remote maintenance**

\* The control valve and flow meter are not included

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