

Ultra Clear™ TP ED

Ultrapure water system with electronic dispenser



Set to meet the highest requirements

The Ultra Clear™ TP ED series comes with an electronic dispenser allowing precise and volume-controlled dispensing of your ultra pure water for flows up to 2 l/min.

The software is intuitive and makes dispensing easy without any delay. A printer and Modbus interface integrates the data transfer into your existing system.

Benefits

- Simple installation. The first set of modules and filter is included as well as all connection hoses.
- Simple and intuitive Operation via 7" multi-color touch display
- Easy change of all modules without the need of a service technician
- Long service life of all components
- Highly efficient UV lamp for TOC oxidation and monitoring
- Integrated, user-guided disinfection mode for a long service life of your system
- System can be expanded with optional accessories
- Service and maintenance contracts available

Typical applications

- HPLC/LCMS
- IC
- GC and GC/MS
- TOC analysis
- ICP and ICP/MS
- DNA sequencing
- RNase- and DNase-free
- DNA free
- PCR
- IVF
- 2D electrophoresis
- Critical cell and tissue culture
- Pyrogen sensitive applications



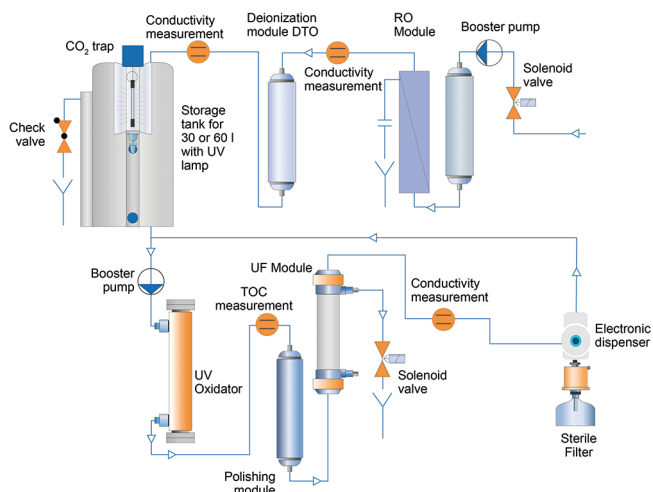
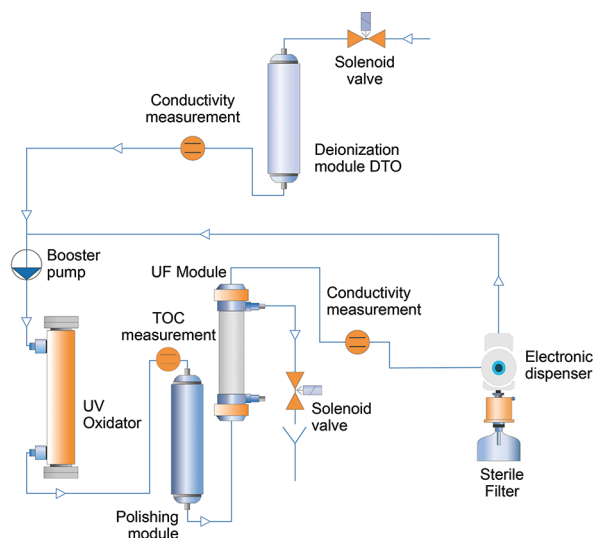


All systems at a glance

W3T276073	Ultra Clear TP ED UV TM	Polisher
W3T276074	Ultra Clear TP ED UV UF TM	Polisher
W3T276075	Ultra Clear TP ED 10 TWF 30 UV TM	TWF
W3T276076	Ultra Clear TP ED 10 TWF 30 UV UF TM	TWF
W3T276077	Ultra Clear TP ED 10 TWF 60 UV TM	TWF
W3T276078	Ultra Clear TP ED 10 TWF 60 UV UF TM	TWF
W3T276079	Ultra Clear TP ED 20 TWF EDI 30 UV TM	TWF EDI
W3T276080	Ultra Clear TP ED 20 TWF EDI 30 UV UF TM	TWF EDI
W3T276081	Ultra Clear TP ED 20 TWF EDI 60 UV TM	TWF EDI
W3T276082	Ultra Clear TP ED 20 TWF EDI 60 UV UF TM	TWF EDI
W3T276084	Ultra Clear TP ED 20 TWF EDI 80 UV UF TM	TWF EDI

The Polisher models

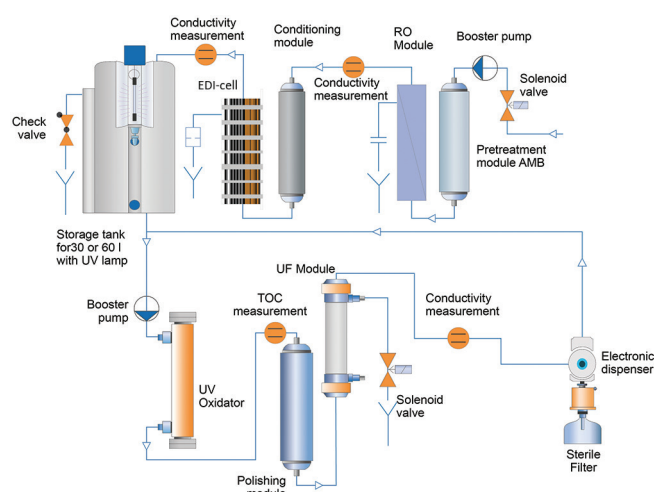
Designed for deionized water feed at conductivity < 20 $\mu\text{S}/\text{cm}$. The unit has an ultrapure water output capacity up to 2 l/min and delivers a water quality of 18.2 M Ω -cm (0.055 $\mu\text{S}/\text{cm}$). The water produced exceeds current quality standards.



The TWF models

The Ultra Clear TP ED TWF is an ultrapure water system available with all options, which is connected directly to the drinking water network (Tap Water Feed).

The reverse osmosis stage works extremely water-saving with a recovery rate of > 30 %. The following ion exchange module (DI) provides water with < 2 $\mu\text{S}/\text{cm}$ from the tank.



The TWF EDI models

They represent the highest expansion stage of the TWF series through the use of Ionpure® EDI cell. The residual deionization of the RO permeate is at the highest and constant level. When fed into the tank, the quality is between 0.06 and 0.2 $\mu\text{S}/\text{cm}$.

With this system, we offer a compact, economically affordable and sustainable solution to produce two water qualities.

Specifications

	W3T276073	W3T276074	W3T276075	W3T276076	W3T276077	W3T276078	W3T276079	W3T276080	W3T276081	W3T276082	W3T276084
Feed water											
Pressure (bar)	0.1 - 5		0.1 - 5				0.1 - 5				
Conductivity (µS/cm)	< 20		< 1400				< 1400				
CO2 (mg/l)	< 15		< 15				< 10				
Silica (mg/l)	< 15		< 15				< 10				
TOC (ppb)	< 50		—				—				
Feed water quantity l/h	60 - 120		25 - 30				50 - 70				
Temperature (°C)	5 - 35		5 - 35				5 - 30				
SDI	< 3		< 3				< 3				
Free Chlorine (mg/l)	< 0.1		< 0.1				< 0.1				
Iron (mg/l)	< 0.1		< 0.1				< 0.1				
Manganese (mg/l)	< 0.05		< 0.05				< 0.05				
pH value	3 - 9		3 - 9				3 - 9				
Pure water											
Flow rate (l/h)	—		10				20				
Conductivity (µS/cm)	—		< 2				< 0,2				
Ultrapure water											
Flow rate (l/min)	up to 2		up to 2				up to 2				
Conductivity (µS/cm)	0.055		0.055				0.055				
Resistivity (MΩ-cm)	18.2		18.2				18.2				
TOC (ppb)	< 3		< 3				< 3				
DNase, RNase, DNA	—	free	—	free	—	free	—	free	—	free	
Bacteria (CFU/ml)	< 0.1		< 0.1				< 0.1				
Endotoxins (EU/ml)	—	< 0.001	—	< 0.001	—	< 0.001	—	< 0.001	—	< 0.001	
Particles > 0.2 µm/ml	< 1		< 1				< 1				
Measurements (W/H/D)											
System (mm)	340 × 535 × 550		340 × 535 × 550				340 × 535 × 550				
30 l tank (mm)	—		300 × 770 × 310		—		300 × 770 × 310		—		
60 l tank (mm)	—		—		560 × 770 × 310		—		560 × 770 × 310		—
80 l tank (mm)	—		—		—		—		—		800 × 350 × 500
Total weight (kg)	23		30.5		31.5		33		34		
Electric connection											
Voltage/Hertz (V/Hz)	100 - 240/50 - 60		100 - 240/50 - 60				100 - 240/50 - 60				
Power consumption (W)	225		225				225				



Optional accessories

Item No.	Description	
W2T897953	AQUASTOP 230 VAC/50 - 60 Hz	Leakage detector
W3T197588	Solenoid valve 220 V/50 Hz; NC; DN10; 3/4" i/a	
W3T199991	Wall bracket for 30 l tank	
W3T197563	Wall bracket for 60 l tank	
W3T314413	CO ₂ Degasing system	
W3T403968	Flushing filter/backflow preventor combination 3/4"	
W3T199279	0.2 µm Sterile filter, with Endotoxin retention (pack of 3 filters)	
W3T199768	Disinfection kit (3 syringes)	
W3T428768	Modbus TCP Gateway (LAB)	

Consumables

Description	Polisher	TWF	TWF EDI	Change frequency**
Pre-treatment module AMB	—	W3T197613		6 - 12 months
Pre-treatment module DTO	W3T197621		—	6 - 12 months
Conditioning module	—		W3T199848	*
Polishing module MFIID		W3T197694		6 - 12 months
0.2 µm Sterile filter (pack of 3 filters)		W3T199209		max. 6 months
Replacement UV for TOC oxidation chamber		W2T558521		1 year (max. 8000 hrs)
Replacement UV for storage tank	—	W2T558519		1 year (max. 8000 hrs)
Replacement CO ₂ cartridge	—	W3T199197		1 year
RO module	—	1 x W3T197620	2 x W3T197620	2 - 3 years
Ultrafiltration module (for UF systems only)		W3T197614		18 - 36 months
Ionpure® EDI cell	—		W3T228723	5 years

* Change frequency depends on the incoming water quality and the amount of water withdrawn.

** All change intervals are average rates and may vary.

We recommend regular service and usage of original spare parts.

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