



## ULTRA CLEAR™ TWF (TAP WATER FEED) TOUCH PANEL SYSTEMS

### ONE SYSTEM - TWO CHOICES HOW TO USE THE ULTRAPURE WATER:

The Ultra Clear™ TP TWF systems have a fixed water dispenser and an optional flexible dispenser to bring the water to your work.

The systems provide you the best solution for all water quality demands and applications in your laboratory.

#### New look - new performance

- 7" multi-color glass display for fast and easy operation, with a generous overview
- Easy to navigate by touching functional system components
- New designed user interface
- Graphic display of all main functions
- SD cards and USB connection for data transfer

#### Direct purity - Tap Water Feed:

#### Deionized and ultrapure water obtainable from a single system

The Ultra Clear™ TWF system is equipped with all the necessary components to produce reagent grade water directly from municipal tap water. The built-in reverse osmosis system has a recovery rate of > 30% to conserve water.

Each system is equipped with economical state-of-the-art purification technology.

Water quality with a resistivity of 18.2 MΩcm and a TOC level between 1 - 3 ppb far exceeds all reagent water quality standards including: ASTM Type 1, CLSI and ISO 3696 Type 1. All systems that include TOC monitoring (TM) and ultrafiltration (UF) produce the highest possible water quality. These units deliver RNase-, DNase- and DNA-free water.

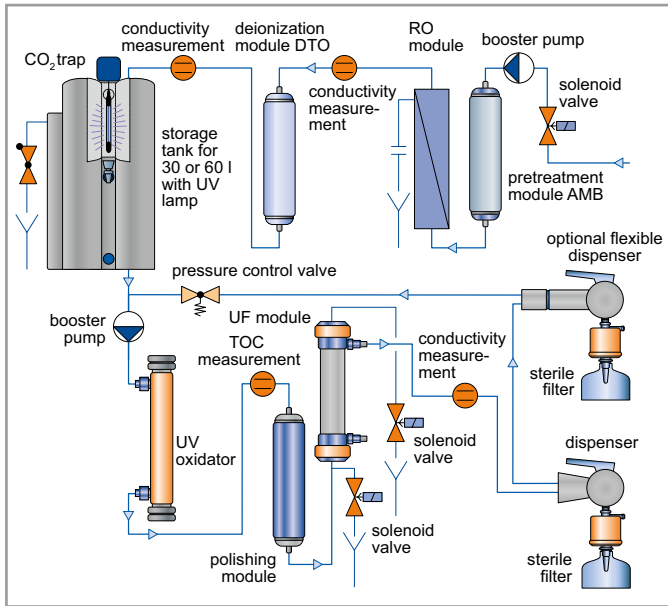
Systems with UF are also capable of producing purified water with endotoxin levels of < 0.001 EU/ml.

### TYPICAL APPLICATIONS

#### Ultra Clear™ TP TWF UV TM and UV UF TM:

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





FLWSHEET OF ULTRA CLEAR TP TWF UV UF TM SYSTEM

Consumable change is very simple and fast due to quick and easy access to the replacement parts. A single UV bulb is used for the oxidization of organic compounds and TOC measurement.

The use of a single UV lamp results in much lower annual running cost compared to the competition.

The energy saving operation mode enables the user to program the running cycles according to the real needs.

A built-in automatic self-cleaning/sanitization mode extends the life of the ultrafiltration module.

All Ultra Clear™ TP systems are delivered with the first set of all cartridges and filters.

### ULTRA CLEAR™ TP TWF SERIES SYSTEM

		10 TWF UV TM	10 TWF UV UF	10 TWF UV UF TM
<b>Ultrapure water specifications</b>				
Output up to	l/min	1.8	1.8	1.8
Conductivity at 25° C	µS/cm	0.055	0.055	0.055
Resistivity at 25° C	MΩ-cm	18.2	18.2	18.2
TOC	ppb	< 1 - 3	< 1 - 3	< 1 - 3
DNase, RNase, DNA		-	free	free
Bacteria	cfu/ml	< 1	< 1	< 1
Endotoxins	EU/ml	< 0.001	< 0.001	< 0.001
Particles > 0.2 µm	per ml	< 1	< 1	< 1
<b>Feed water specification</b>				
Pressure	bar	0.1 - 5	0.1 - 5	0.1 - 5
Conductivity	µS/cm	< 2000	< 2000	< 2000
CO <sub>2</sub> max.	mg/l	15	15	15
Colloid index SDI		< 3	< 3	< 3
Free Chlorine	mg/l	< 0.5	< 0.5	< 0.5
Fe	mg/l	< 0.1	< 0.1	< 0.1
TOC	ppb	< 50	< 50	< 50
Temperature	°C	5 - 35	5 - 35	5 - 35
Shipping weight	kg	43/46	44/47	44/47
Power supply	V/Hz	100 - 240 / 50 or 60		
Dimensions H/W/D w. 30/60 l-tank	mm	530/560/320 / 530/900/320		
<b>Cat. No. for 30 l tank</b>		<b>W3T360169</b>	<b>W3T360170</b>	<b>W3T360171</b>
<b>Cat. No. for 60 l tank</b>		<b>W3T360174</b>	<b>W3T360175</b>	<b>W3T360176</b>



STERILE FILTER



OPTIONAL FLEXIBLE SIDE DISPENSER

## CONSUMABLES

Item	Change frequency	Cat.No.
Deionization module VMD for applications in the inorganic range	6 - 12 monthly	<b>W3T197618</b>
Pretreatment module AMB	6 - 12 monthly	<b>W3T197613</b>
Pretreatment module DTO for applications that need low TOC	6 - 12 monthly	<b>W3T197621</b>
Polishing module MF III D for applications in the low TOC range	6 - 12 monthly	<b>W3T197694</b>
Polishing module ILT for inorganic applications	6 - 12 monthly	<b>W3T199853</b>
Sterile filter 0.2 µm, 1000 cm <sup>2</sup>	6 monthly	<b>W2T526542</b>
Disinfection kit (pack of 3)	-	<b>W3T199768</b>
UV-replacement bulb for systems with and without TM	12 monthly	<b>W2T558521</b>
RO replacement module	2 - 3 years	<b>W3T197620</b>
CO <sub>2</sub> trap CT1, replacement cartridge	yearly	<b>W3T199197</b>
UV-submersible replacement bulb UV-SL 1 30 and 60 l tanks	yearly	<b>W2T558519</b>
UF Membrane Preventor 5000	18 - 36 monthly	<b>W3T197614</b>

Consumable change frequency information is average and can vary.

## ACCESSORIES

Item	Cat.No.
Flexible side dispenser (Ultra Clear)	<b>W3T360439</b>
Degassing unit 10 - 150 l/h to reduce CO <sub>2</sub> in the inlet water which is increasing the cartridge life time	<b>W3T314413</b>
Data analysis tool Ultra Clear TP History	<b>W3T370122</b>

## OPTIONS

Item	Cat.No.
Bracket ET 30 for 30 l tank including screws and plugs	<b>W3T199991</b>
Bracket ET 60 for 60 l tank including screws and plugs	<b>W3T197563</b>
Dispenser hose extension (to be ordered together with the system, please specify the needed length)	<b>1.2, 1.5 and 2 m upon request</b>
Remote dispense station	<b>W3T368947</b>



ULTRA CLEAR™ TP TWF WITH 30 L TANK



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