

## **ULTRA CLEAR® TP TWF (TAP WATER FEED) ULTRA PURE WATER SYSTEM**

### **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.

### **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 MΩ-cm and a TOC level between 1 - 3 ppb far exceeds all reagent water quality standards including: ASTM Type I, CLSI and ISO 3696 Type I. 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.

### **Benefits**

- New designed 7" multi-color glass graphic display of all main functions for fast and easy operation, with a generous overview, simple and intuitive menu navigation
- 2 water qualities from one device, ASTM type 2 and type 1 water
- SD cards and USB connection for data transfer
- Scope of supply includes consumables
- High capacity of consumables
- Made in Germany

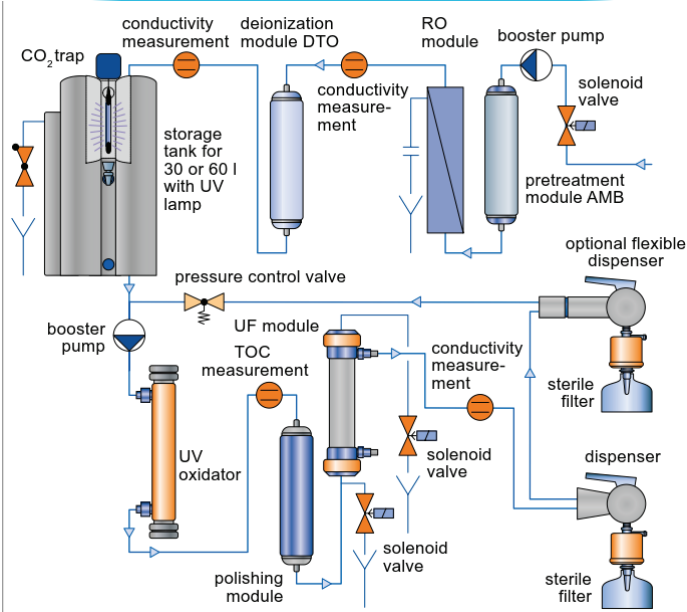
### **TYPICAL APPLICATIONS**

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

### **DNASE AND RNASE BY MICROMED LABORATORIES, USA**

The water was free of any detectable RNase or DNase.

The detection limit for the RNase assay is equivalent to about 0.5 pg/ml RNase A, for DNase 10 µg/ml DNase 1.



## SPECIFICATIONS

Pure water specifications		Ultra Clear TP TWF UV TM	Ultra Clear TP TWF UV UF TM
Conductivity	µS/cm	2	2
Bacteria	cfu/ml	< 30	< 30
Ultrapure water specifications			
Delivery flow rate	l/min	1.8	1.8
Conductivity	µS/cm	0.055	0.055
Resistivity	MΩ-cm	18.2	18.2
TOC	ppb	< 1 - 3	< 1 - 3
DNase, RNase, DNA		-	free
Bacteria	cfu/ml	< 0.1	< 0.1
Endotoxins	EU/ml	-	< 0.001
Particles > 0.2 µm	per ml	< 1	< 1
Feed water specifications			
Feed water pressure	bar	0.1 - 5	0.1 - 5
Conductivity	µS/cm	< 2000*	< 2000*
CO <sub>2</sub>	mg/l	15*	15*
Silt density index	SDI	< 12*	< 12*
Free Chlorine	mg/l	< 0.5*	< 0.5*
Total iron	mg/l	< 0.1	< 0.1
Temperature	°C	5 - 35	5 - 35
Shipping weight 30 / 60 L	kg	43/46	44/47
Power supply	V/Hz	100 - 240 / 50 - 60	100 - 240 / 50 - 60
Dimensions H x W x D with 30 / 60 L	mm	530 x 560 x 320 / 530 x 900 x 320	
Item code with 30 L		W3T360169	W3T360171
Item code with 60 L		W3T360174	W3T360176

\* with the help of a pre-filter kit

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.



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