



## ULTRA CLEAR® TP TWF EDI ULTRA PURE WATER SYSTEM

**One system – two choices how to use the ultra pure water**

The Ultra Clear® TP TWF EDI 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 ultra pure water obtainable from a single system.**  
**Units with continuous electrodeionization**

The Ultra Clear TWF EDI 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. The continuous electrodeionization (CEDI) stage purifies RO product water down to a quality range of 0.055  $\mu\text{S}/\text{cm}$  (18.2  $\text{M}\Omega\text{-cm}$ ). CEDI product water can be drawn directly from the integrated storage tank. Each system is equipped with economical state-of-the-art purification technology. Water quality with a resistivity of 18.2  $\text{M}\Omega\text{cm}$  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 Ultrafiltration (UF) produce the highest possible water quality. These units deliver RNase-, DNase- and DNA-free water.

### 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

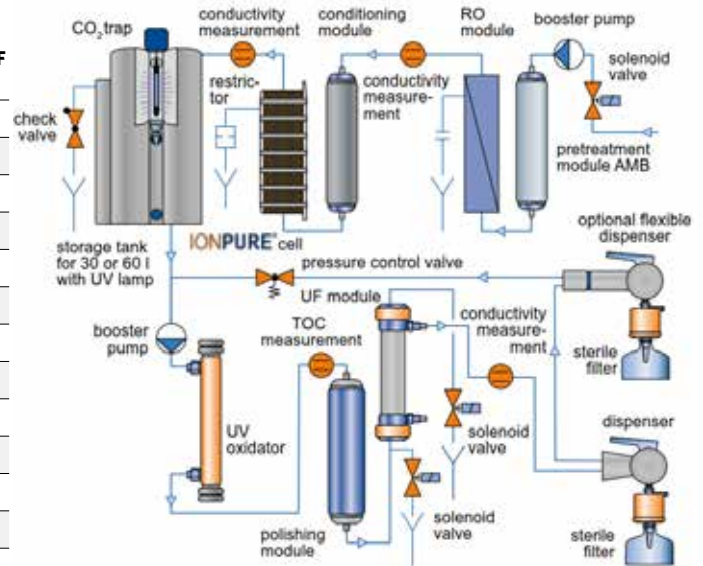
### Typical applications UV TM and UV UF TM

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

## SPECIFICATIONS

Pure water specifications		Ultra Clear TP TWF	
		EDI UV TM	EDI UV UF TM
Delivery flow rate	l/h	20	20
Conductivity	µS/cm	0.2	0.2
Bacteria	cfu/ml	< 30	< 30
<b>Ultra pure water specifications</b>			
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	< 1	< 1
Endotoxins	EU/ml	-	< 0.001
Particles > 0.2 µm	per ml	< 1	< 1
<b>Feed water specifications</b>			
Feed water pressure	bar	0.1 - 5	0.1 - 5
Conductivity	µS/cm	< 2000*	< 2000*
Silt density index	SDI	< 12*	< 12*
Free Chlorine	mg/l	< 0.5*	< 0.5*
CO <sub>2</sub>	mg/l	< 10	< 10
SiO <sub>2</sub>	mg/l	< 10	< 10
Total iron	mg/l	< 0.1	< 0.1
TOC	ppb	< 50	< 50
Temperature	°C	5 - 35	5 - 35
Shipping weight 30 l / 60 l	kg	43/46	44/47
Power supply	V/Hz	100 - 240 / 50 or 60	100 - 240 / 50 or 60
Dimensions (H x W x D) with 30 l storage tank	mm	530 x 560 x 320	530 x 560 x 320
Dimensions (H x W x D) with 60 l storage tank	mm	530 x 900 x 320	530 x 900 x 320
Item code with 30 l		W3T360177	W3T360178
Item code with 60 l		W3T360179	W3T360180

\* with the help of a pre-filter



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