



ULTRA CLEAR™ TWF EDI UV UF TM

SPECIAL BLACK GLASS PANEL EDITION

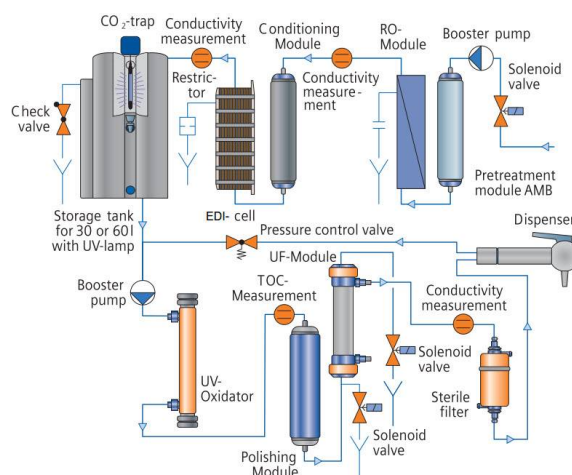
LEADING EDGE TECHNOLOGY

The Ultra Clear™ TWF EDI system with continuous electro-deionization (CEDI) cell is equipped with the necessary components to produce pure and ultrapure water directly from a municipal tap water source. The reverse osmosis unit has a recovery rate of > 30 % to conserve water. The CEDI stage has a flow rate of 20 L/h and purifies RO product water down to a quality range between 0.06 to 0.2 $\mu\text{S}/\text{cm}$. CEDI product water can be drawn directly from the integrated storage tank. A polishing cartridge is provided that can obtain a water quality of 0.055 $\mu\text{S}/\text{cm}$ (18.2 $\text{M}\Omega\text{cm}$) with a TOC-level of < 1 ppb (only in units with UV oxidation). Systems with ultra filter deliver ultrapure water that is RNase, DNase and DNA free with a dispense rate up to 1.8 L/min.

The system water quality exceeds all reagent grade water quality standards including: ASTM Type 1, CLSI and ISO 3696 Type 1. Various system options are available to fulfill all your lab needs. These options include an ultrafiltration module, UV-oxidation and TOC monitoring that can be tailored for any laboratory application in a single system.

A built-in automatic flush cycle extends the life of the ultra filter and helps reduce operating cost. This compact system has been designed with all the required technical features to economically produce purified and ultrapure water. Performance of the system equals that of larger multi-component purification systems that cost more to purchase and operate. The system does it all from one compact unit.

This special edition is equipped with a control panel made of hardened glass with LED lit capacitive sensors.



The unit can either be bench or wall mounted. A flexible remote dispenser enables the user to dispense water wherever it is needed. Our new systems are available with special features such as: volume control dispensing and TOC monitoring. A programmable, 24-hour-circulation mode, and integrated RS232 interface for data recording are included. Various remote dispenser hose lengths are also available. The 24 hour energy saving option allows to start and stop the unit at different times. Day and night operation is free selectable with interval option for UV oxidization.

Typical applications:

<ul style="list-style-type: none"> • AAS • routine analysis • standard buffer • HPLC 	<ul style="list-style-type: none"> • IC • GC and GC/MS • ICP and ICP/MS • DNA sequencing 	<ul style="list-style-type: none"> • PCR • IVF • 2-D-electrophoresis • critical cell and tissue culture • pyrogen sensitive applications
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Specifications:

Type II water specifications		
Output up to	L/h	20
Conductivity at 25° C	µS/cm	0.2
Resistivity at 25° C	MΩcm	5.0

Type I water specifications		
Output up to	L/min	1.8
Conductivity at 25° C	µS/cm	0.055
Resistivity at 25° C	MΩcm	18.2
TOC	ppb	< 1 ... 3
DNase, RNase, DNA		free
Bacteria	cfu/mL	< 1
Endotoxins	EU/mL	< 0.001
Particles > 0.1 µm	per mL	< 1

Feed water specifications		
Pressure	bar	0.1 ... 5.0
Conductivity	µS/cm	< 1400
Colloid index	SDI	< 3
Free chlorine	mg/L	< 0.5
Fe	mg/L	< 0.1
SiO ₂ max.	mg/L	15
CO ₂ max.	mg/L	15
TOC	ppb	< 50
Temperature	°C	5 ... 35
Shipping weight with 30-L/60-L tank	kg	43 / 46
Power supply	V; Hz	100 ... 240: 5 or 60
Dimension 30 l: H/W/D	mm	530/560/320
Dimension 60 l: H/W/D	mm	530/900/320
Catalog number with 30-L tank		W3T343880
Catalog number with 60-L tank		W3T340903

Consumables:

Catalog number	Description	Change frequency
W3T199848	Conditioning module	Depends on feed water hardness and water consumption.
W3T197613	Pre-treatment module AMB	6 – 12 months
W3T197621	Pre-treatment module DTO	6 – 12 months
W3T197694	Polishing module MFIID	6 – 12 months
W3T199853	Polishing module ILT	6 – 12 months
W2T526542	Sterile filter, 0.1-µm	6 months
W3T199768	Disinfection kit (pack of 3)	-
W2T558521	UV replacement bulb	12 months
W3T197614	Ultrafiltration module	18 – 36 months
W3T197620	RO replacement module, 10 L/h	2 – 3 years
W3T199197	CO ₂ Trap replacement cartridge	12 months
W2T558519	UV submersible bulb 30 and 60 L tanks	12 months
W3T198268	EDI cell, 30 L/h, bipolar	4 – 5 years

Contact:

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