



TECHNICAL SPECIFICATION

DEIONISED AND 18.2 MΩ·CM WATER

The **DUO™ II.I** combines the trusted purifying technology of the Geno™ II, with the impressive flexibility of the Alto™ I. Process potable water to Type 2 for the storage reservoir; to be used for general laboratory applications, or for when you call for Type 1 from the dispenser as required.

Manufactured to ISO 9001:2015 standard. Certified to IEC 61010-1:2010 and EN 61326-21:2013



FEATURES & BENEFITS

KEY FEATURES

- Type 2 and Type 1 water quality from one unit
- Option of remote and/or integrated dispenser
- Intuitive, icon-based, interactive user interface with touch screen
- Up to 2 L/min Ultrapure Water with volumetric dispense
- Variable make up rate up to 25 L/hr
- Mount on-bench, under-bench or on the wall
- Continuous TOC monitoring
- Low Endotoxin, RNase, DNase and Protease options available

PRODUCT WATER QUALITY

TYPE 2						TYPE 1					
MODEL	MAKE-UP FLOW RATE (@15 °C / 59 °F)	WATER QUALITY (@25 °C / 77 °F)	AUTO VOLUMETRIC DISPENSE (@15 °C / 59 °F)	DISPENSE FLOW RATE	DISPENSE WATER QUALITY (@25 °C / 77 °F)	BACTERIA	TOC	ENDOTOXINS**	RNASE**	DNASE**	PROTEASE**
DUO II.I	≥ 25 L/hr	15 MΩ·cm	0.1 - 25 L	≥ 2 L/min	18.2 MΩ·cm	< 0.01 CFU/ml	≤ 5 ppb	< 0.001 EU/mL	< 1 pg/mL	< 5 pg/mL	< 0.15 µg/mL
DUO II.I-R	≥ 25 L/hr	15 MΩ·cm	0.1 - 25 L	≥ 2 L/min	18.2 MΩ·cm	< 0.01 CFU/ml	≤ 5 ppb	< 0.001 EU/mL	< 1 pg/mL	< 5 pg/mL	< 0.15 µg/mL

** Using correct final filter TC004

SYSTEM REQUIREMENTS

FEED WATER

Pressure	Bar / PSI	0.1 - 6 / 1.45 - 87
Conductivity	µS/cm	< 1400
Temperature	°C / °F	4 - 30 / 39.2 - 86
Hardness as CaCO ₃	ppm	< 400
Free Chlorine	ppm	< 2
Colloid Index	SDI	< 3
pH Value	-	4 - 10
Iron (Total Fe)	ppm	< 0.1

UNIT SPECIFICATIONS

ALL MODELS

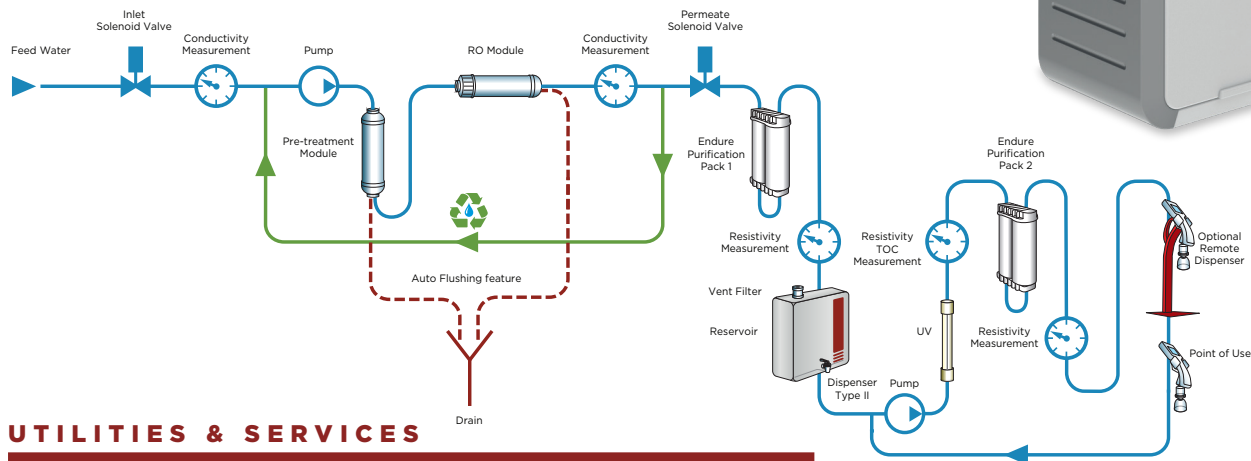
Dimensions (HxWxD)	500 x 490 x 290 mm / 19.7 " x 19.3 " x 11.5 "
Dimensions (Remote Dispenser)	640 x 250 x 255 mm / 25.2 " x 9.84 " x 10 "
Installed Weight	30 kg / 66.1 lbs
Power Supply	100 - 240 V - ; 50/60 Hz; 3.0 A (max)
Power Supply Output	24 VDC, 5.0 A, 120 W (max)
Operating Temperature	4 °C - 35 °C (max) / 39.2 °F - 95 °F (max)
Storage Temperature	4 °C - 35 °C (max) / 39.2 °F - 95 °F (max)



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FLOWCHART



UTILITIES & SERVICES

REQUIREMENTS

Water Supply	Isolated cold-water feed
Drain Type	Sink/Tundish/Standard up-stand with suitable trap
Drain Flow	> 3 L/min

CONSUMABLES & ACCESSORIES

PART NUMBER	DESCRIPTION	TYPICAL ANNUAL REQUIREMENT
TC001	Pre-treatment Module	2*
TC002	Endure™ Purification Pack 1	2
TC003	UV Lamp	1
TC004	Final Filter Endotoxin	2*
TC009	Endure™ Purification Pack 2	2
TC010	Sanitisation Pack	1
TC011	Final Filter	2*
AV004	Valve Kit for Washing Machine Feed (Single POU)	-
AV006	Wall Mounting Kit	-
AV007	External Pre-filter Housing Kit (Excludes Filter)	-
AV016	Valve Kit for Washing Machine Feed (Double POU)	-
AV017	IQOQ Documentation for Duo™ II.I	-
AV034	RO Sanitising Kit for Duo™ II.I, Geno™ II and Puro™ III	-
AV053	Remote Dispenser Series 6+	-

* Depending on feed water quality and usage

TYPE 2 WATER

APPLICATIONS	APPLICATIONS
Buffer & Media Preparations	Molecular Biology, Immunology & Pharmacology
Sample Dilution & Reagent Preparation	Electrochemistry
Spectrophotometry	Critical Cell & Tissue Culture
Protein Electrophoresis	(GF) AAS, HPLC, IC, ICP-MS, GC, MS
Cytology & Histology	DNA Sequencing
Glassware Washing & Rinsing	Genomics & Proteomics

TYPE 1 WATER