



TECHNICAL SPECIFICATION

DEIONISED AND 18.2 MΩ·CM WATER



The **DUO™-i II.I** Laboratory Water Purification System is fully integrated to produce up to 30 L/hr of Type II water directly from tap-water. It dispenses up to 2 L/min of both Type II pure water and Type I ultrapure water from a flexible dispenser.

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

FEATURES & BENEFITS

KEY FEATURES

- Dispense Type 1 and Type 2 water (optional) from the remote dispenser(s)
- Unique twin pass RO technology ensures enhanced DI cartridge capacity
- Data capture with printable option
- Dispense Type 2 water from reservoir
- Specific cartridges for your critical applications
- Integrated Water Leakage Protection
- Adjustable dispenser
- Cartridge traceability with data tag
- Interactive 7" touch screen
- Colour coded dispensing stations with up to three flexible dispensing options

PRODUCT WATER QUALITY

TYPE 2

MODEL	MAKE-UP FLOW RATE (@15 °C / 59 °F)	WATER QUALITY (@25 °C / 77 °F)	DISPENSE FLOW RATE	BACTERIA*	TOC****	ENDOTOXINS**	RNASE***	DNASE***	PROTEASE***
DUO-i II.I 5	5 L/hr	> 5 MΩ·cm	≥ 2 L/min	< 0.01 CFU/ml	< 30 ppb	-	-	-	-
DUO-i II.I 10	10 L/hr	> 5 MΩ·cm	≥ 2 L/min	< 0.01 CFU/ml	< 30 ppb	-	-	-	-
DUO-i II.I 20	20 L/hr	> 5 MΩ·cm	≥ 2 L/min	< 0.01 CFU/ml	< 30 ppb	-	-	-	-
DUO-i II.I 30	30 L/hr	> 5 MΩ·cm	≥ 2 L/min	< 0.01 CFU/ml	< 30 ppb	-	-	-	-

TYPE 1

DUO-i II.I (ALL)	-	18.2 MΩ·cm	≥ 2 L/min	< 0.01 CFU/ml	< 5 ppb	< 0.001 EU/mL	< 1 pg/mL	< 1 pg/mL	< 0.15 µg/mL
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SYSTEM REQUIREMENTS

FEED WATER

Pressure	Bar / PSI	0.5 - 6 / 7.25 - 87
Conductivity	µS/cm	< 2000 µS/cm @ 25 °C
Temperature	°C / °F	5 - 40 / 41 - 104
Free chlorine	ppm	< 3
Silt Density Index	SDI	< 12
pH	-	4 - 10

* With LWFS32302 final filter

** With LWFS32303 final filter

*** With TCO04 final filter

**** With feed water TOC less than 2 ppm

UNIT SPECIFICATIONS

ALL MODELS

Dimensions (System - HxWxD)	575 x 366 x 492 mm / 22.6 " x 14.4 " x 19.4 "
Dimensions (Reservoir - HxWxD)	1200/900/600 x 390 x 384 mm / 47.3/35.4/23.6 " x 15.4 " x 15.1 "
Dimensions (Pre-treatment - HxWxD)	463 x 220 x 380 mm / 18.2 " x 8.6 " x 14.9 "
Dimensions (Dispensing Station - HxWxD)	845 x 280 x 300 mm / 33.3 " x 11 " x 11.8 "
Installed Weight	23 kg / 50.7 lbs
Power Supply	100 - 240 V ~ ; 50/60 Hz
Power Supply Output (Main Unit)	200 VA
Power Supply Output (Pre-treatment)	75 VA



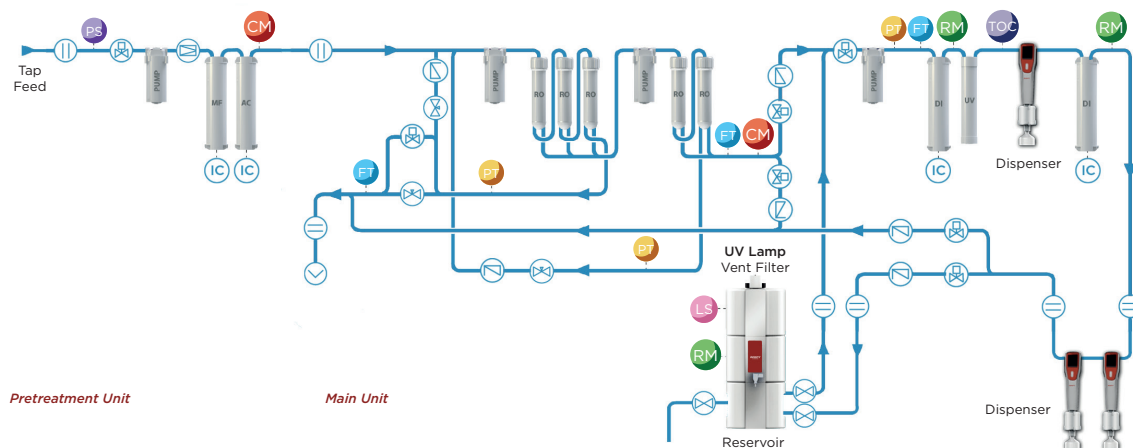
Duo-i™ II I

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FLOWCHART



ORDERING GUIDE

PART NUMBER	DESCRIPTION
LWFS71205	DUO-i II.I system 5 L/hr
LWFS71205R	DUO-i II.I system 5 L/hr with Reservoir conductivity
LWFS71205T	DUO-i II.I system 5 L/hr with TOC
LWFS71205TR	DUO-i II.I system 5 L/hr with TOC & Reservoir conductivity
LWFS71210	DUO-i II.I system 10 L/hr
LWFS71210R	DUO-i II.I system 10 L/hr with Reservoir conductivity
LWFS71210T	DUO-i II.I system 10 L/hr with TOC
LWFS71210TR	DUO-i II.I system 10 L/hr with TOC & Reservoir conductivity
LWFS71220	DUO-i II.I system 20 L/hr
LWFS71220R	DUO-i II.I system 20 L/hr with Reservoir conductivity
LWFS71220T	DUO-i II.I system 20 L/hr with TOC
LWFS71220TR	DUO-i II.I system 20 L/hr with TOC & Reservoir conductivity
LWFS71230	DUO-i II.I system 30 L/hr
LWFS71230R	DUO-i II.I system 30 L/hr with Reservoir conductivity
LWFS71230T	DUO-i II.I system 30 L/hr with TOC
LWFS71230TR	DUO-i II.I system 30 L/hr with TOC & Reservoir conductivity



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