

TECHNICAL SPECIFICATION

REVERSE OSMOSIS AND 18.2 MΩ·CM WATER



The **DUO[™]-i III.I** produces up to 30 L/hr of Type III water directly from tap-water. It dispenses up to 2 L/min of both Type III 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 3 water (optional) from the remote dispenser(s)
- Unique twin pass RO technology (< 10 µS/cm, typical < 5 µS/cm if feed condition is < 2000 µS/cm)
- Data capture with printable option
- Dispense Type 3 water from the reservoir
- Adjustable dispenser
- Cartridge traceability with data tag
- Auto Reservoir sanitisation option
- Interactive 7" touch screen
- Colour coded dispensing stations with up to three flexible dispensing options

PRODUCT WATER QUALITY

TYPE 3

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 III.I 5	5 L/hr	< 5 µS/cm	≥ 2 L/min	< 0.01 CFU/ml	-	-	-	-	-
DUO-i III.I 10	10 L/hr	< 5 µS/cm	≥ 2 L/min	< 0.01 CFU/ml	-	-	-	-	-
DUO-i III.I 20	20 L/hr	< 5 µS/cm	≥ 2 L/min	< 0.01 CFU/ml	-	-	-	-	-
DUO-i III.I 30	30 L/hr	< 5 µS/cm	≥ 2 L/min	< 0.01 CFU/ml	-	-	-	-	-

TYPE 1

DUO-i III.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 TC004 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 13.2 " 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



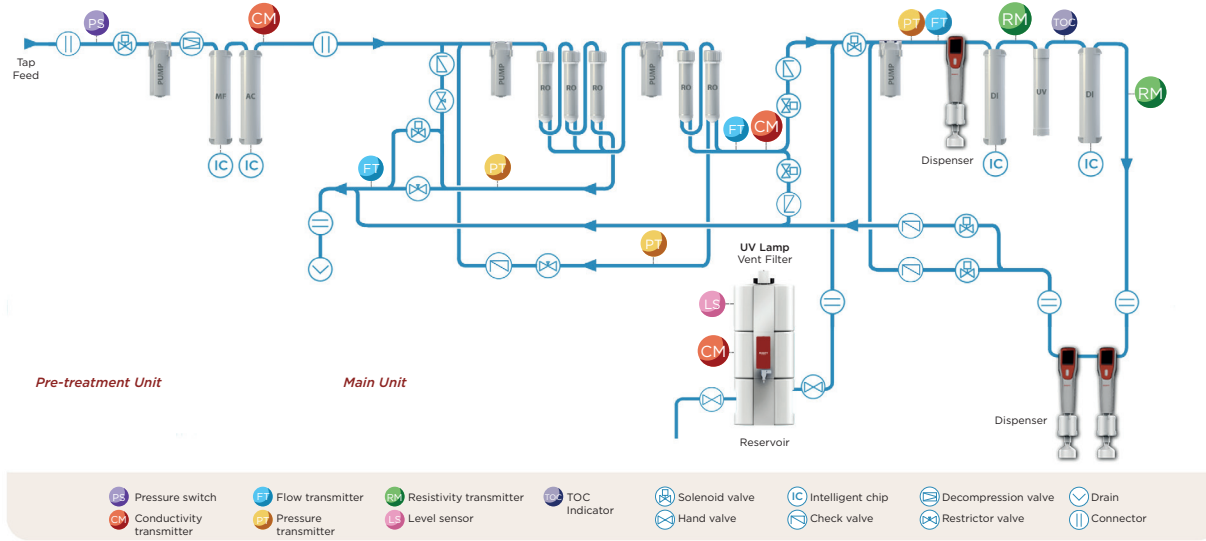
Duo-i™ III I

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FLOWCHART



ORDERING GUIDE

PART NUMBER	DESCRIPTION
LWFS71305	DUO-i III.I system 5 L/hr
LWFS71305R	DUO-i III.I system 5 L/hr with Reservoir conductivity
LWFS71305T	DUO-i III.I system 5 L/hr with TOC
LWFS71305TR	DUO-i III.I system 5 L/hr with TOC & Reservoir conductivity
LWFS71310	DUO-i III.I system 10 L/hr
LWFS71310R	DUO-i III.I system 10 L/hr with Reservoir conductivity
LWFS71310T	DUO-i III.I system 10 L/hr with TOC
LWFS71310TR	DUO-i III.I system 10 L/hr with TOC & Reservoir conductivity
LWFS71320	DUO-i III.I system 20 L/hr
LWFS71320R	DUO-i III.I system 20 L/hr with Reservoir conductivity
LWFS71320T	DUO-i III.I system 20 L/hr with TOC
LWFS71320TR	DUO-i III.I system 20 L/hr with TOC & Reservoir conductivity
LWFS71330	DUO-i III.I system 30 L/hr
LWFS71330R	DUO-i III.I system 30 L/hr with Reservoir conductivity
LWFS71330T	DUO-i III.I system 30 L/hr with TOC
LWFS71330TR	DUO-i III.I system 30 L/hr with TOC & Reservoir conductivity



TYPE 3 WATER

APPLICATIONS
Autoclave feed
Glasswasher feed
Feed to Ultrapure Water Systems
Hydroponics
Steam Generators

TYPE 1 WATER

APPLICATIONS
Molecular Biology, Immunology & Pharmacology
Electrochemistry
Critical Cell & Tissue Culture
(GF) AAS, HPLC, IC, ICP-MS, GC, MS
DNA Sequencing
Genomics & Proteomics