Cascada III Specifications

OUTPUT WATER QUALITY	
Water Type	**III**
Conductivity	< 5 µS/cm @ 25°C (Typical)
Ion Rejection Rate	> 99%
Organic Rejection Rate	> 99%
Bacteria (CFU/ml)	< 0.01*
Particles (>0.2µm)	< 1/ml*
Output Flow Rate	Up to 2 L/min

* With LWFS32302 final filter

OUTPUT FLOW RATES			
System	**RO**	**From tank**	**From dispenser**
Cascada III 5	5 L/h	≥ 2 L/min*	Up to 2 L/min
Cascada III 10	10 L/h	≥ 2 L/min*	Up to 2 L/min
Cascada III 20	20 L/h	≥ 2 L/min*	Up to 2 L/min
Cascada III 30	30 L/h	≥ 2 L/min*	Up to 2 L/min

* From tap on reservoir

FEED WATER REQUIREMENTS	
Conductivity	< 2000 µs/cm @ 25°C
Pressure	0.5 - 6 bar
Temperature	5 - 40°C
Free chlorine	< 3 ppm
Silt Density Index	< 12
pH	4 - 10
DIMENSION (MM)	
System	H 575 x W 366 x D 492
Reservoir	H 1200/900/600 x W 390 x D 384
Pre-Treatment	H 463 x W 220 x D 380
Dispensing Station	H 845 x W 280 x D 300
DRY WEIGHT (KG)	
System	23
Reservoir	5 (35 L); 7 (70 L); 9 (105 L)
Pre-Treatment	7
Dispensing Station	6
ELECTRICAL REQUIREMENTS	
Input Voltage	100-240 V 50-60 Hz
Power	200 VA Main Unit 75 VA Pretreatment

ORDERING GUIDE	
Part Number	**Description**
LWFS31405	Cascada III system 5L/H
LWFS31405R	Cascada III system 5L/H with Reservoir conductivity
LWFS31405L	Cascada III system 5L/H with Loop
LWFS31410	Cascada III system 10L/H
LWFS31410R	Cascada III system 10L/H with Reservoir conductivity
LWFS31410L	Cascada III system 10L/H with Loop
LWFS31420	Cascada III system 20L/H
LWFS31420R	Cascada III system 20L/H with Reservoir conductivity
LWFS31420L	Cascada III system 20L/H with Loop
LWFS31430	Cascada III system 30L/H
LWFS31430R	Cascada III system 30L/H with Reservoir conductivity
LWFS31430L	Cascada III system 30L/H with Loop

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AVIDITY™ SCIENCE

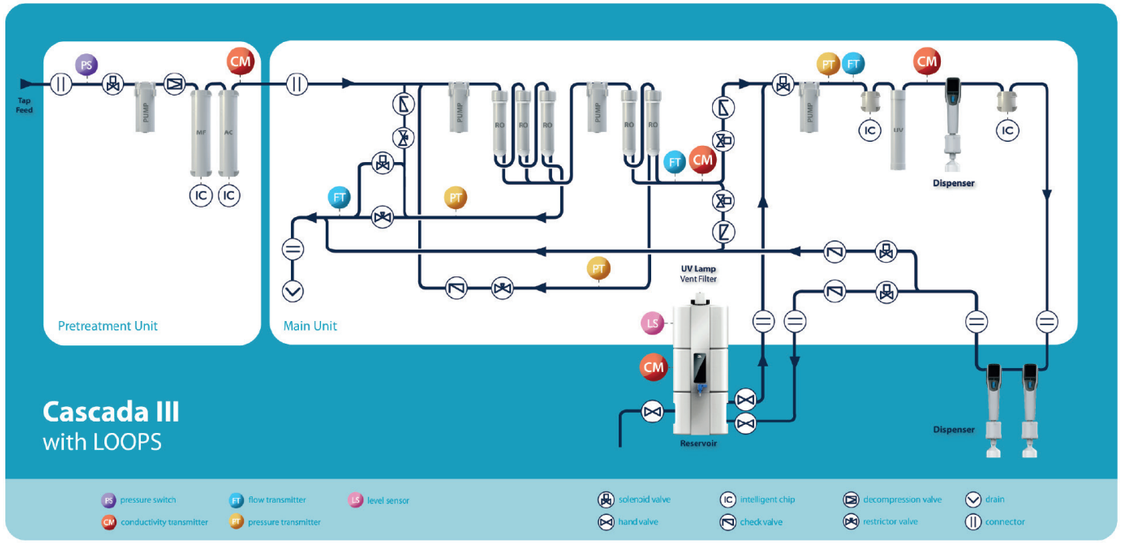
cascada™ III

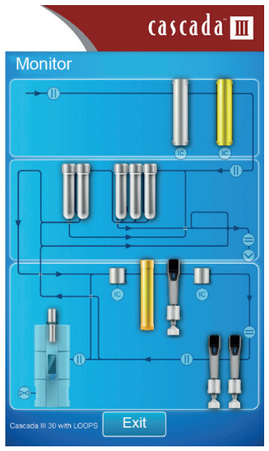
Integrated Laboratory Water Purification System

Enabling science to improve the quality of life

Integrated. What you see is what you get.

The Cascada III Laboratory Water Purification System is fully integrated to produce up to 30 L/hr of Type III water directly from tap water. It dispenses Type III pure water at up to 2 L/min from a flexible dispenser or at more than 2 L/min directly from the reservoir. Real-time water quality and operating conditions are displayed on the dispensing interface. A compact dispensing stand (28x30 cm) offers true flexibility to users to maximize bench space utilization and to locate the dispenser at the most convenient point of use.





▸ **Type III Water** is required for sensitive laboratory applications:
- Microbiology media preparations
- Final rinsing for most laboratory apparatus
- As feed water for:
  - Type I ultrapure water systems
  - automated glassware washers
  - humidity chambers
  - sterilizers

▸ **Integrated controls** on the Cascada III system enable Type III water to be always available from the reservoir. Water quality is maintained by optimizing UV sterilization and CO_2 vent filtration.

▸ **Flexible dispensing options** on the Cascada III system allow you to draw Type III water in 3 ways: directly from the reservoir tap, from a flexible dispenser on the system, or from two additional remote dispensers each placed up to 2.9 m away (up to 5.8 m in serial). Each dispenser may also be placed on a stand or used freely from up to 0.8 m away.
- **Real-time water quality is displayed on both the dispenser and the main monitor ... what you see is what you get.**
- Dispense rates of >2 L/min from the tap, or up to 2 L/min from the remote dispenser, enables >120 L/hr availability for peak period usage.
- Routine system control functions are fully available on the dispenser including “Print Report” for Good Laboratory Practices. This allows maximum bench space utilization. For example, main system, pre-treatment module and reservoir may all be placed under the bench.

▸ **Integrated Reverse Osmosis Technologies**
- Patented 2-stage reverse osmosis technology enables superior and stable output quality. Output conductivity of 5 µs/cm is typical from tap water as challenging as 2,000 µs/cm.
- Superior RO purification with up to 99% ion rejection rate. It improves life expectancy of final filters.

▸ **Monitor screen** provides scientific criteria for consumables management based on:
- Flow rate and pressure sensing
- Usage time
- Water quality monitoring

▸ **7” touch screen** offers friendly and intuitive user experience:
- “Touch” sequences similar to smart phones encourage new users to operate with ease
- Color-coding (Red, Amber, Blue) and *Flashing* indicators offer guidance to any non-routine actions needed and their urgency/ criticality
- Unmatched “width” and “depth” of system control

▸ **Displayed languages** are selectable in English, Chinese, Japanese, or Korean to suit user’s preference.

▸ **Integrated Pre-Treatment Module**
- Integrated controls on inlet water pressure and monitoring of flow rates to optimize system operations. Optional booster pump available.
- 3.2” screen displays color-coded operating condition of each component.
- Choice of cartridges based on local tap water condition:
  - Silt Density Index (SDI)
  - Chlorine
  - Bacterial
- Easy cartridge replacement.
- An additional leakage sensor may be placed inside the pre-treatment module and will detect presence of water droplet as close as 1 mm.

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