

# CLiR 5400

Type I, Ultra-High Purity Water for Genetics Applications



Ultra High-Purity Lab Water with UV Oxidation, Ultrafilter, & 0.2 Micron Technology for use with:

**Genetics**

**DNA Sequencing**

**Polymerase Chain Reaction (PCR)**



**RESINTECH INC.**

INNOVATIONS IN ION EXCHANGE

## THE CLiR 5400 SYSTEM

Designed specifically for genetics applications, the CLiR 5400 delivers **2.0 LPM of Type I, 18.2 Megohm water quality on demand**. The water is purified using a staged purification process which includes high-purity ion exchange resins to remove dissolved minerals, ultraviolet light for bacteria sterilization and TOC reduction, and ultrafiltration for pyrogen removal and nuclease free water. As the water exits the system, a final filter removes particulates and bacteria to reach Type I water specifications.

The CLiR 5400 meets the challenges of delivering consistent ultra-pure water for critical research and testing in the life sciences. For applications like PCR, DNA Sequencing, Gel preparation, and general molecular biology, the need for RNasefree water becomes a necessity. Conventional methods use Diethyl pyrocarbonate (DEPC) treatment to in activate RNase enzymes. With the use of the CLiR 5400, those processes are eliminated and contamination is reduced with an on-demand, ultrafiltration process.

**CONDITIONING CARTRIDGE**

**POLISHING CARTRIDGE**

**UV OXIDATION**

**ULTRAFILTRATION**

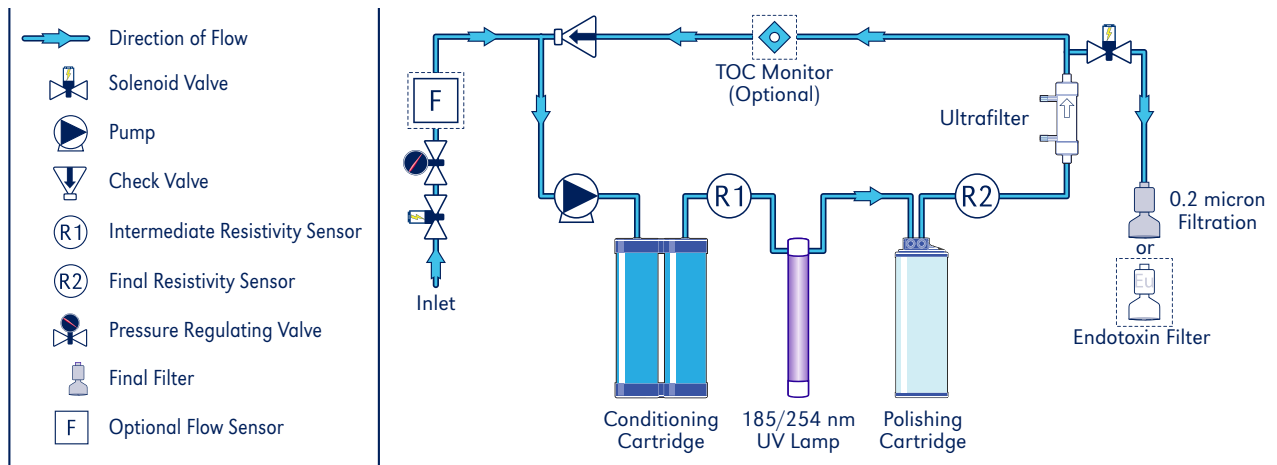
**0.2 MICRON**

### Performance Specifications

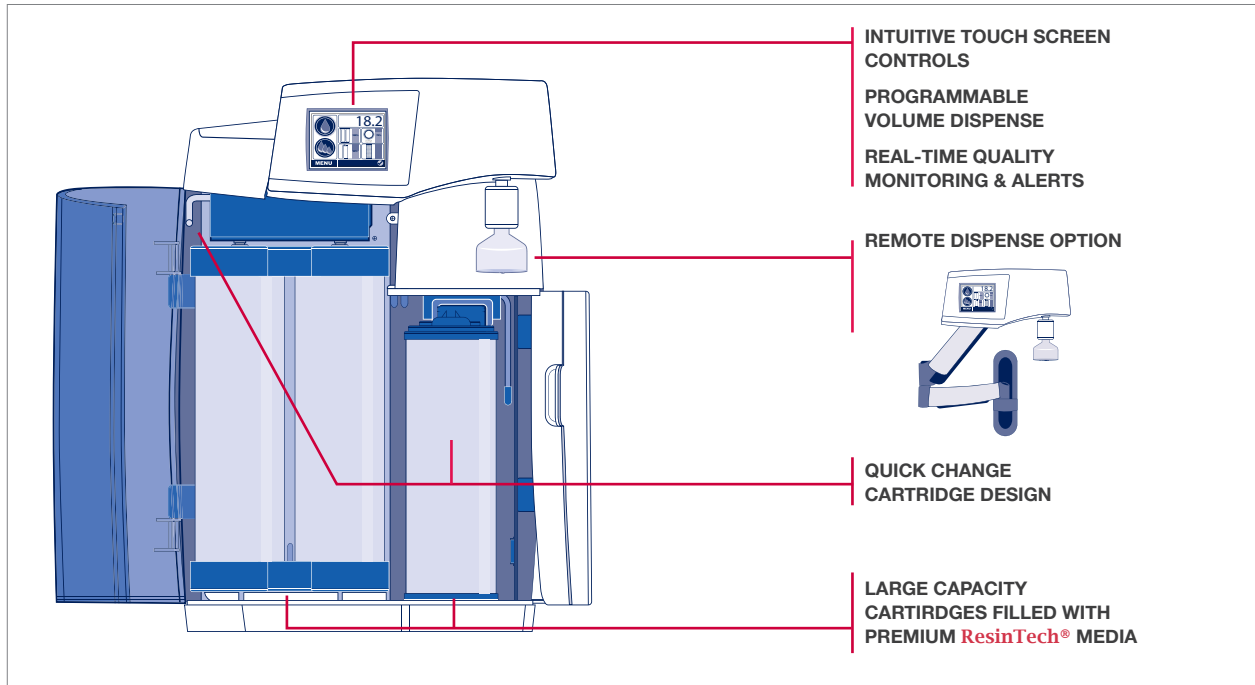
<b>Resistivity</b>	18.2 MΩ-cm
<b>Bacteria</b>	< 1 cfu/ml
<b>Endotoxin**</b>	<0.005 EU/ml
<b>Particulates</b>	< 0.05 µm filtration
<b>TOC</b>	< 5 ppb
<b>RNase</b>	< 0.01 ng/ml
<b>DNase</b>	< 4 pg/µl

*Performance based upon RO / DI or Distillation Feed  
(< 20 uS/cm, < 50 ppb of TOC, 0.2 micron filtration)  
Includes Endotoxin Removal Capsule Filter*

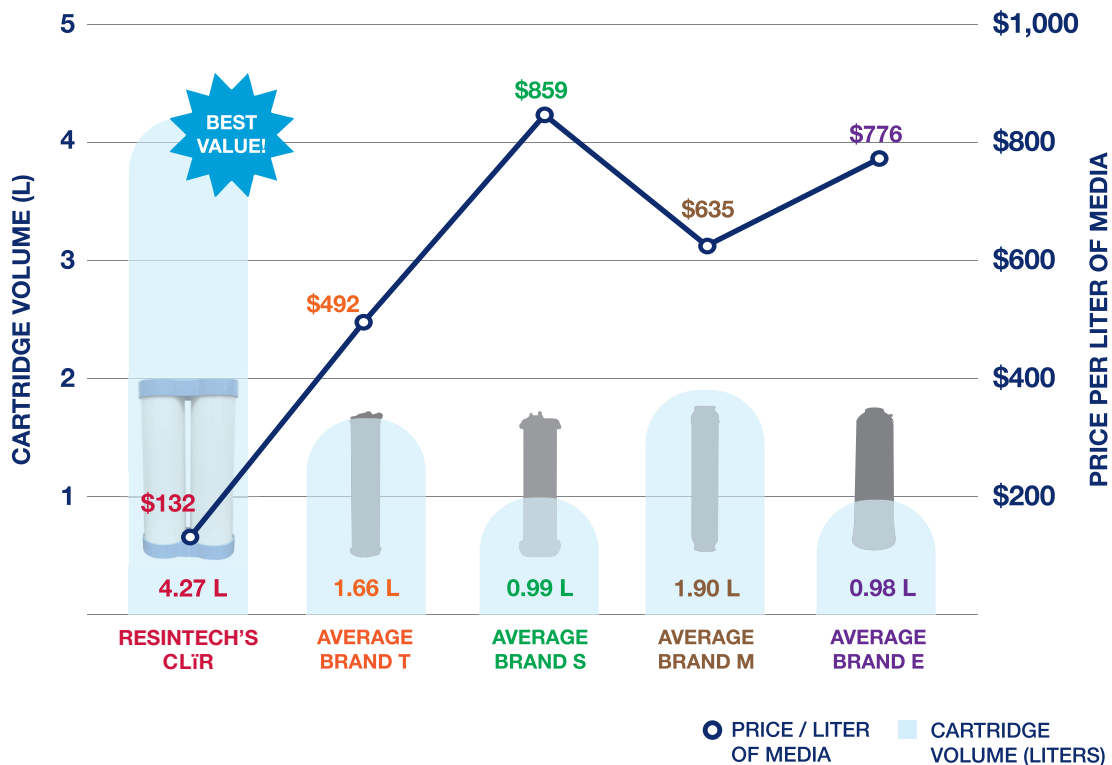
### SYSTEM FLOW



## SYSTEM HIGHLIGHTS



## THE BEST VALUE IN REPLACEMENT CONSUMABLES



<b>PART #</b>	<b>CLiR 5400 TYPE I WATER SYSTEM</b>
CLS-5400-S-1	Benchtop - with UV and UF installed, 120V/60Hz
CLS-5400-R-1	Remote Dispense Configuration - with UV and UF installed, 120V/60Hz
CLS-5400-S-2	Benchtop - with UV and UF installed, 220V/50Hz
CLS-5400-R-2	Remote Dispense Configuration - with UV and UF installed, 220V/50Hz

<b>PART #</b>	<b>ACCESSORIES</b>
CLA-5000-DF	Direct Feed Port
CLA-5000-DG	Recirculating Dispensing Gun
CLA-5000-WB	Wall Mount Bracket

<b>PART #</b>	<b>CARTRIDGES &amp; FILTERS</b>
CLF-5000-C1	Dual Conditioning Cartridge (RO Feed)
CLF-5000-C2	Dual Conditioning Cartridge (SDI / TAP Feed)
CLF-5000-P1	Polishing Ultrapure Cartridge
CLF-5000-P2	Polishing Ultrapure Low Organics Cartridge
CLF-XX-6402	0.2 Micron Capsule Filter - 1/4" MNPT x 1/4" hose barb
CLF-5000-02E	0.2 Micron Endotoxin Removal Capsule Filter - 1/4" MNPT x 1/4" hose barb

<b>PART #</b>	<b>OTHER CONSUMABLES</b>
CLF-5000-005	Ultrafilter - 3/8" Quick Disconnect Fitting
CLX-5000-016	UV Bulb 254/185nm TOC Destruct
CLX-5000-017	Sanitization Kit (includes cartridges, test strips, and gloves)

**NOTE:** Conditioning cartridge, polishing cartridge and final filters are sold separately.

## SYSTEM SPECIFICATIONS

### Dimensions (H x W x D)

Height:	21.6 in.	(54.8cm)
Width:	14.7 in.	(37.0cm)
Depth:	14.4 in.	(36.5cm)

### Weight

Dry	42 lbs.	(22.7 kg)
Operating	47 lbs.	(25.0 kg)

### Inlet Connection

O.D. Tubing	3/8"	(9.53 mm)
-------------	------	-----------

### Power Requirements

120 VAC/ 60 Hz @ 1.0 amp

### Pressure

20 PSIG min. — 90 PSIG max.

**Max Temperature** 100°F (30°C)

### Flow Rate (Typical)

2.0 LPM (0.53 GPM)

CALL **856.768.9600**

OR EMAIL [info@resintech.com](mailto:info@resintech.com)

FilterWorks is a division of ResinTech, Inc., a global leader ion exchange technology.

All media, cartridges and systems are lot-numbered and manufactured in state-of-the-art facilities the U.S.A under ISO standards.