

### PHOENIX SYSTEM

The Phoenix Ultra High-purity Lab Water System from Aries FilterWorks delivers 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 and internal recirculation to maintain purity. As the water exits the system, a final filter removes particulates and bacteria to reach Type I water specifications. Additional technologies are offered depending on the application, including UV and Ultrafiltration. Multiple sensors continuously monitor the system and final water quality to ensure trouble free operation.

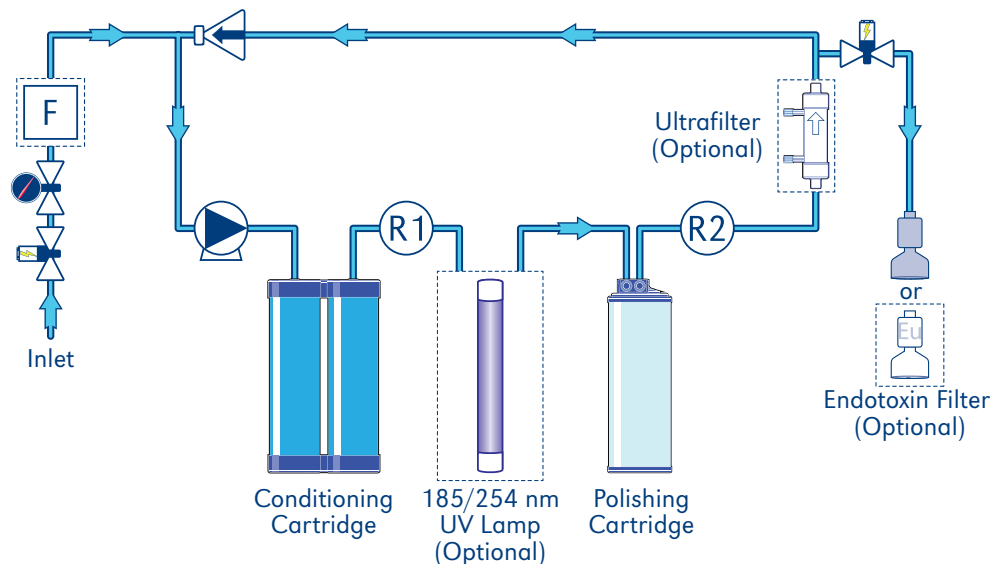
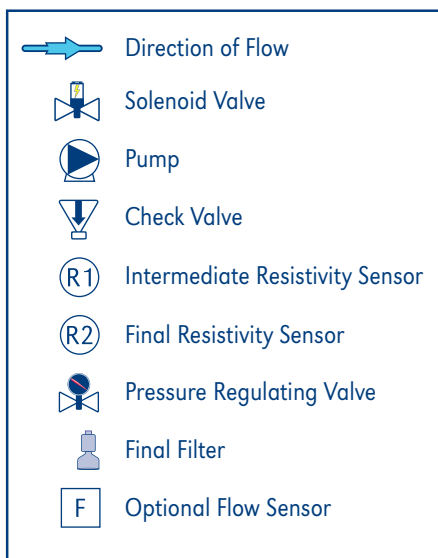


### FEATURES & BENEFITS

- 2.5 LPM\* OF 18 MEGOHM TYPE 1 REAGENT WATER ON DEMAND
- INTUITIVE, USER FRIENDLY TOUCH-SCREEN INTERFACE
- REAL TIME QUALITY MONITORING WITH LEAK DETECTION
- COMPACT DESIGN WITH REMOTE DISPENSE OPTION
- QUICK CHANGE, NO TOOLS CARTRIDGE DESIGN
- LARGE CAPACITY, LOW COST CONSUMABLES CARTRIDGES
- GENUINE RESINTECH MEDIA





\*Note: Reported flow rate is typical but can vary depending on supply pressure and system options.

### FLOW DIAGRAM



# PHOENIX ULTRA HIGH-PURITY WATER SYSTEM

## PHOENIX CONFIGURATIONS

Model	Academy	Citation	Biochem	Genome
				
Applications	Basic Chemistry, Academic, IC Buffers	HPLC, GC/MS, Trace Organics	Life Science, Cell Culture, Microbiology	DNA Sequencing, PCR, Electrophoresis
Conditioning Cartridge	•	•	•	•
Polishing Cartridge	•	•	•	•
UV Oxidation		•		•
Ultrafiltration			•	•
0.2 micron	•	•	•	•

## PERFORMANCE SPECIFICATIONS\*

Resistivity	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm
Bacteria	< 1 cfu/ml	< 1 cfu/ml	< 1 cfu/ml	< 1 cfu/ml
Endotoxin**			<0.005 EU/ml	<0.005 EU/ml
Particulates	< 0.2 µm filtration	< 0.2 µm filtration	< 0.05 µm filtration	< 0.05 µm filtration
TOC	< 15 ppb	< 5 ppb	< 15 ppb	< 5 ppb
RNase			< 0.01 ng/ml	< 0.01 ng/ml
DNase			< 4 pg/µl	< 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

### Dimensions (H x W x D)

21.6 in. x 14.7 in. x 14.4 in.  
(54.8cm x 37cm x 36.5cm)

### Weight

42 lbs. dry / 47 lbs. operating  
(22.7 kg dry / 25 kg operating)

### Inlet Connection

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

### Power Requirements

120 VAC/ 60 Hz @ 1.0 amp

### Pressure

90 PSIG Max. / 20 PSIG Min.

### Temperature (Max.)

100°F / 30°C

### Flow Rate (Typical)

0.67 Gallons Per Minute  
2.5 Liters Per Minute  
< 2.0 LPM with Ultrafilter &  
Endotoxin filter installed

## ADDITIONAL SYSTEM COMPONENTS

### Installed Options & Accessories†

PHA-FM	Flow Totalizer Meter
PHA-DF	Direct Feed Port
PHA-DG	Recirculating Dispensing Gun
PHA-WB	Phoenix Wall Mount Bracket

### Cartridges & Filters††

PX-13-5001	Phoenix Dual Conditioning Cartridge (RO Feed)
PX-13-5002	Phoenix Dual Conditioning Cartridge (SDI / TAP Feed)
PX-11-5103	Phoenix Polishing Ultrapure Cartridge
PX-11-5104	Phoenix Polishing Ultrapure Low Organics Cartridge
PF-00-6402	0.2 Micron Capsule Filter - 1/4" MNPT x 1/4" hose barb
PF-00-7101	0.2 Micron Endotoxin Removal Capsule Filter - 1/4" MNPT x 1/4" hose barb

### Consumables

PF-00-7105	Phoenix Ultrafilter - 3/8" Quick Disconnect Fitting
HPA-016	Phoenix UV Bulb 254/185nm TOC Destruct
HPA-017	Sanitization Kit (includes cartridges, test strips, and gloves)

† Options must be preordered for factory installation

†† Cartridges and Filters are not included in a system and are ordered separately

**Note: Ordering information subject to change without notice. Please verify all specifications prior to placing orders. For more information Call: (856) 626-1550**

### IMPORTANT NOTICE TO USER:

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DS-Phoenix (rev 2.0)