

PHOENIX

ULTRA HIGH-PURITY WATER SYSTEM

KEY FEATURES

- 2.5 LPM* OF 18 MEGOHM TYPE 1 REAGENT WATER ON DEMAND
- LARGE CAPACITY CARTRIDGES PROVIDE LOW OPERATING COSTS
- USER FRIENDLY INTERFACE AND REAL TIME MONITORING

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

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.



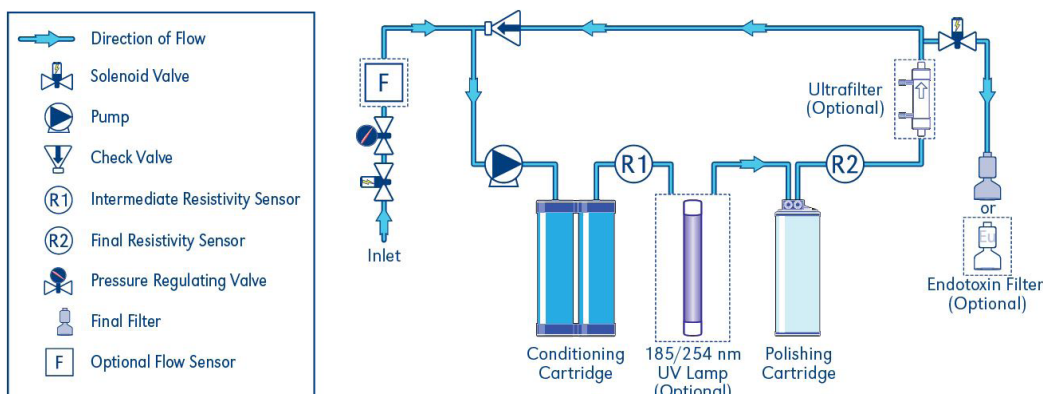
The Phoenix system is pre-configured into four application specific models:

- Phoenix Academy (base model): Basic Chemistry, Academic, IC, Buffers
- Phoenix Citation (with 185/254 nm UV): HPLC, GC-MS, Trace Organics
- Phoenix Biochem (with UF): Life Science, Cell Culture, Microbiology
- Phoenix Genome (with UV/UF): DNA Sequencing, PCR, Electrophoresis

FEATURES & BENEFITS

- **MICROPROCESSOR OPERATION AND CONTROL**
Intuitive touch screen with programmable batch dispense for various container sizes. Real-time quality monitoring, system operation and alerts
- **COMPACT DESIGN AND REMOTE DISPENSE OPTION**
Saves valuable lab space and system can be factory-configured to be stored under the counter with a remote dispensing module
- **QUICK CHANGE CARTRIDGE DESIGN**
Uses a quick release levers to disengage both the conditioning cartridge and the polishing cartridge. No tools required
- **LOWEST COST OF OWNERSHIP**
Large capacity cartridges use our own QC controlled resins which are made in the USA. Streamlined manufacturing provides better affordability
- **LEAK DETECTION SENSOR**
Automatically shuts down the unit safely in the event of an alarm condition, this feature is standard with every system

FLOW DIAGRAM



PHOENIX CONFIGURATIONS

System	Academy	Citation	Biochem	Genome
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
Endotoxin**			<0.005 EU/ml	<0.005 EU/ml
Particulates	< 0.2 µm filtration	< 0.2 µm filtration	< 0.2 µm filtration	< 0.2 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

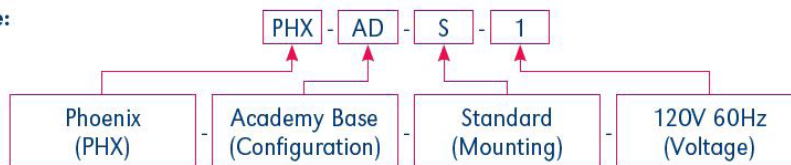
* Performance based upon RO / DI or Distillation Feed (< 20 uS/cm, < 50 ppb of TOC, 0.2 micron filtration)

** Includes Endotoxin Removal Capsule Filter

ORDERING INFORMATION

The Phoenix System is designed to be versatile to meet stringent analytical requirements while saving valuable bench space. Systems can be configured to meet specific needs using the ordering guide below.

Example:



PHX-AD-S-1 Phoenix - System Configuration - Dispense Configuration - Voltage

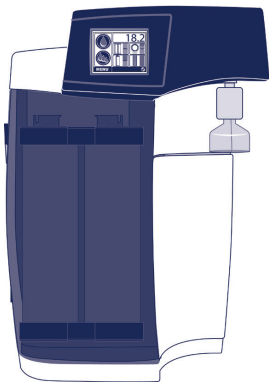
PHX-AD-S-1 System Configuration Technology
 AD = Academy Base Configuration
 CT = Citation includes UV Oxidation
 BC = Biochem includes Ultrafiltration
 GN = Genome includes UV and Ultrafiltration

PHX-AD-S-1 Standard or Remote Dispense Configuration
 S = Standard Configuration (Counter Top Mounting)
 R = Remote Dispensing (Maximum 6'-10' from base unit)

PHX-AD-S-1 System Voltage:
 1 = 120V 60Hz
 2 = 220V 50Hz

Conditioning Cartridge, Polishing Cartridge, and Final Filters are ordered separately. Call ERE Inc for more information at 1-888-287-3732

TECHNICAL DATA



Dimensions (H x W x D)
 21.6 in. x 14.7 in. x 13.5 in.
 (55 cm x 38 cm x 35 cm)

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 Maximum
 20 PSIG Minimum

Temperature (Max.)
 100 °F
 30 °C

Flow Rate (Typical)
 0.67 Gallons Per Minute
 2.5 Liters Per Minute
 < 2.0 LPM with Ultrafilter and
 Endotoxin filter installed

IMPORTANT NOTICE TO USER:

The following is made in lieu of all other warranties expressed or implied. Manufacturer's and Seller's only obligation shall be to issue credit against the purchase or replacement of the equipment proved to be defective in material or workmanship. Neither Manufacturer nor Seller shall be liable for any injury, loss or damage, direct or indirect, special or consequential, arising out of the use of, misuse, or the inability to use such product. The information contained herein is based on technical data and tests which we believe to be reliable and is intended for use by persons having technical skill at their discretion and risk. Since conditions of use are outside ResinTech's control, we can assume no liability whatsoever for results obtained or damages incurred through the application of the data presented. This information is not intended as a license to operate under, or a recommendation to infringe upon, any patent of ResinTech's or others covering any material or use. The foregoing may not be altered except by written agreement signed by officers of the manufacturer.