

# 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**

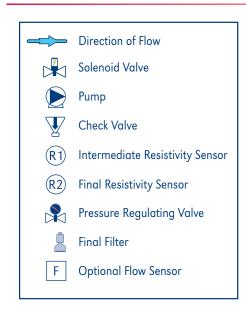
MICROPROCESSOR OPERATION AND CONTROL
 Intuitive touch screen with programmable batch dispense for various container sizes. Real-time quality monitoring, system operation and alerts

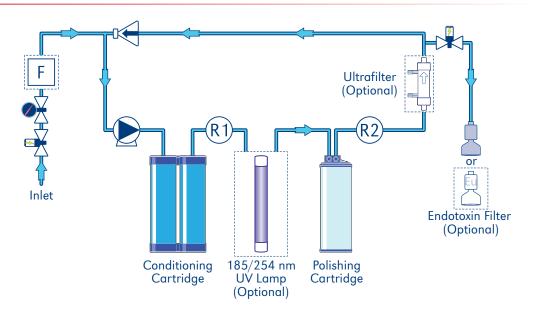
Large capacity cartridges use our own QC controlled resins which are made in the USA. Streamlined manufacturing provides better affordability

- 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
- 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 ULTRA HIGH-PURITY WATER SYSTEM

# **TECHNICAL DATA**



# Dimensions (H x W x D)

21.6 in. x 14.7 in. x 14.4 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

# MADE IN USA

WE ARE PROUD TO BE ISO 9001 : 2015 CERTIFIED



Note: Ordering information subject to change without notice.

Please verify all specifications prior to placing orders.

For more information Call: (856) 626-1550

#### **PHOENIX CONFIGURATIONS**

System	Academy	Citation	Biochem	Genome
Conditioning Cartridge	•	•	•	•
Polishing Cartridge	•	•	•	•
UV Oxidation		•		•
Ultrafiltration			•	•
0.2 micron	•	•	•	•

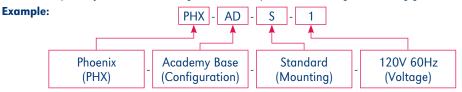
#### PERFORMANCE SPECIFICATIONS\*

Resistivity	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm	18.2 MΩ-cm
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	< 0.2 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

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

# 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.



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. Refer to Options & Accessories section below for ordering details.

#### **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<sup>††</sup>

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)

#### IMPORTANT NOTICE TO USER:

DS-Phoenix (rev1.28)

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'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's one Seller's 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 Resinfech's control, we can assume no liability whatsoever for results obtained or damages incurred through the application of the application of the manufacturer.

The foregoing may not be altered except by written agreement signed by officers of the manufacturer in the manufacturer.

<sup>\*\*</sup> Includes Endotoxin Removal Capsule Filter

<sup>†</sup> Options must be preordered for factory installation

<sup>&</sup>lt;sup>††</sup> Cartridges and Filters are not included in a system and are ordered separately