

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

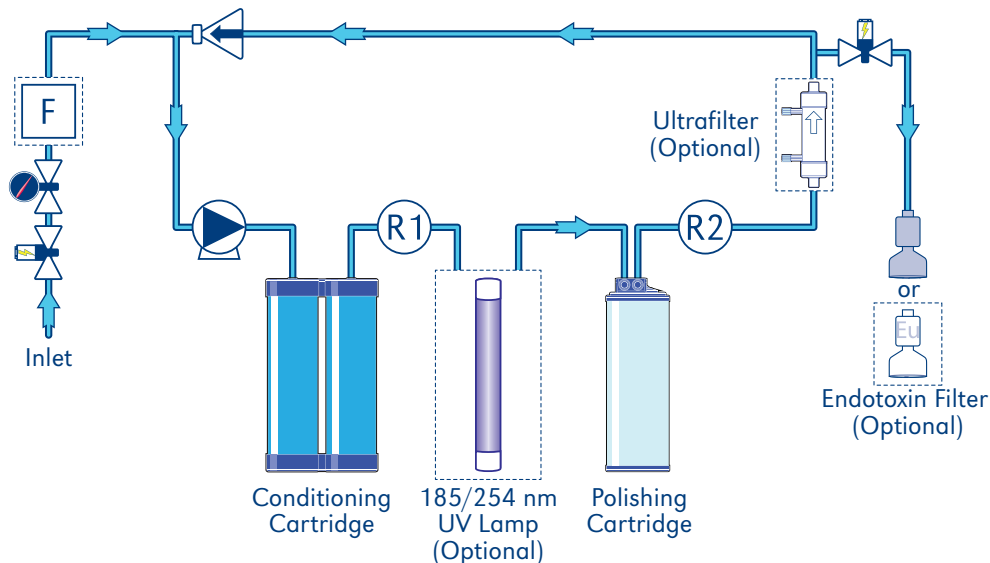
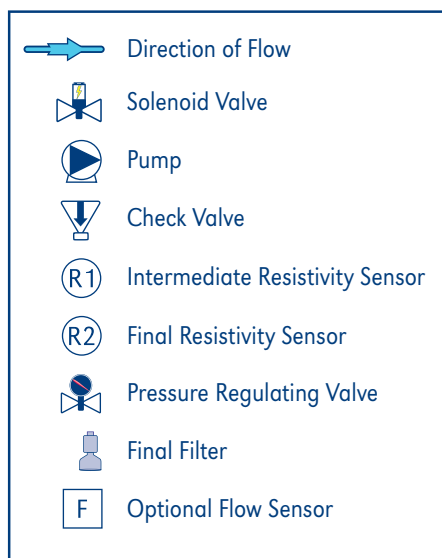
• LOWEST COST OF OWNERSHIP

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

• LEAK DETECTION SENSOR

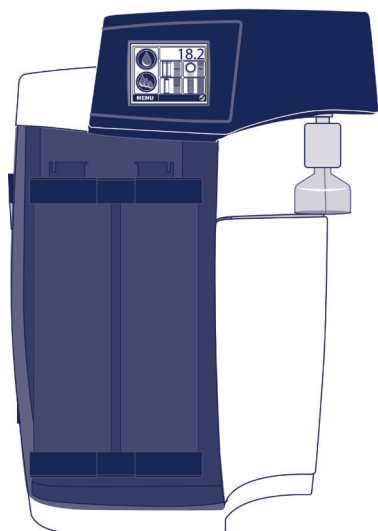
Automatically shuts down the unit safely in the event of an alarm condition, this feature is standard with every system

FLOW DIAGRAM



PHOENIX ULTRA HIGH-PURITY WATER SYSTEM

TECHNICAL DATA



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 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

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

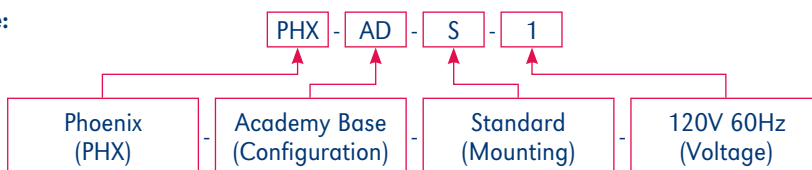
* Performance based upon RO / DI or Distillation Feed (< 20 uS/cm, < 50 ppb of TOC, 0.2 micron filtration)

** 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

System Configuration Technology

AD = Academy Base Configuration

CT = Citation includes UV Oxidation

BC = Biochem includes Ultrafiltration

GN = Genome includes UV and Ultrafiltration

Standard or Remote Dispense Configuration

S = Standard Configuration (Counter Top Mounting)

R = Remote Dispensing (Maximum 6'-10' from base unit)

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††

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

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

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DS-Phoenix (rev1.28)