



# GEMINI SERIES

ULTRA HIGH-PURITY WATER SYSTEM

## SYSTEM OVERVIEW

The GEMINI Ultra High Purity Water System provides up to 3.7 liters per minute of 18.2 megohm, 0.2 micron filtered water. The Multi-Pass Ultraviolet system irradiates the water at three separate passes in the recirculation loop. The dispensing port is continuously exposed to UV for complete sterility at the outlet. Water quality meets or exceeds ASTM, CAP and NCCLS Type 1 specifications.

Controls include PLC and a 3.5" high resolution HMI display. Touch panel screen provides easy interface for dispensing and programming up to four batches. Resistivity is clearly displayed with system operation status. Display turns red during alarm condition below resistivity set point. Hibernation mode runs the pump intermittently to keep the system ultrapure.

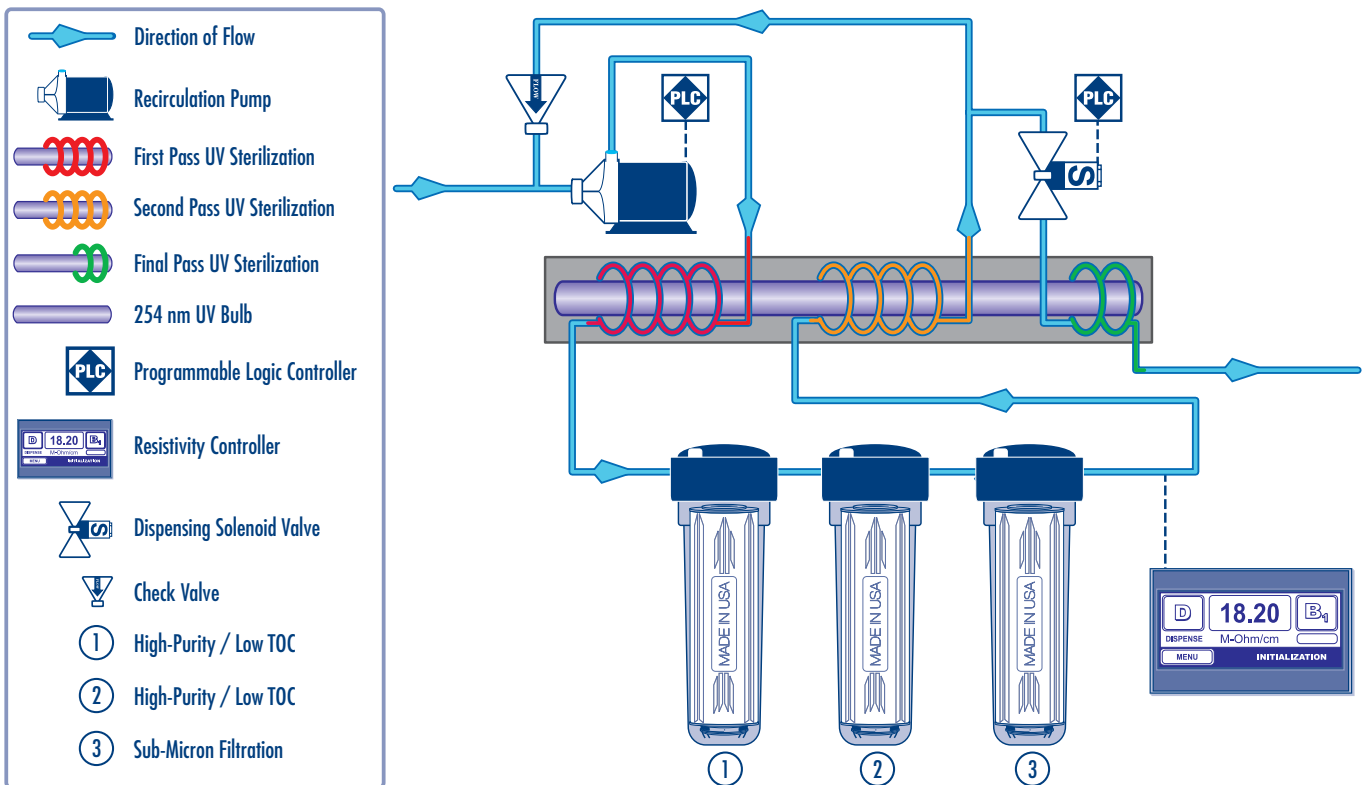
The integral basin accommodates filling large containers and controls drips and spills. A variety of options are available such as a dispensing gun, ultra-filtration, wall mounting hardware and a sanitization kit. RO pretreatment systems are also available.

## FEATURES & BENEFITS

- 18.2 Megohms
- Up to 3.7 liters per minute
- Integral, full flow 0.2 micron filter
- Multi-Pass UV standard
- UV protected dispensing port
- High Resolution Touch Screen
- Microprocessor controlled
- Built in drain basin
- Easy cartridge replacement
- Exceeds ASTM, CAP and NCCLS Type I specifications.
- Meets Bio-Medical Grade Specification ASTM D5196

- Sterile Dispensing Port
- 18.2 Megohms
- Highest Flow Rate

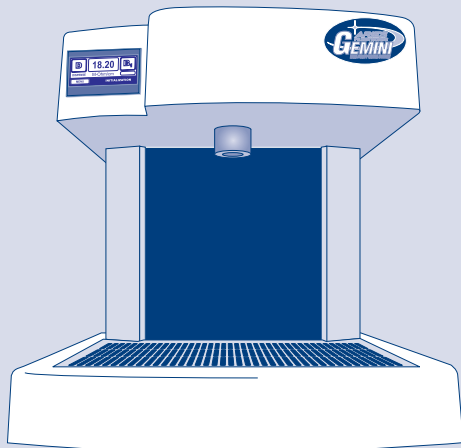
## FLOW DIAGRAM



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# GEMINI SERIES ULTRA HIGH-PURITY LOOP

## TECHNICAL DATA



**Dimensions (H x W x D)**  
21.5 in. x 18.25 in. x 18.25 in.  
(61 cm x 46 cm x 47 cm)

**Weight**  
50 lbs dry / 55 lbs operating  
(22.7 kg dry / 25 kg operating)

**Connections**  
3/8" O.D. Tube

**Power Requirements**  
120 VAC/ 60 Hz @ 1.0 amp

**Pressure (Max./Min.)**  
90 psig/20 psig

**Temperature (Max.)**  
100°F

**Flow Rate**  
3.7 liters per minute (1.0 GPM)

## INFLUENT QUALITY

Source	Reverse Osmosis, DI, or Distillation
Purity	< 20 µS/cm
Filtration	0.2 µm
Free Chlorine	< 0.05 ppm
Silica	< 2 ppm
TOC	< 50 ppb

## EFFLUENT QUALITY (STANDARD SYSTEM)

Standard System-	
Purity	> 18 Megohm- cm
Microorganisms	< 10 CFU / 1000 ml
Chlorides	< 1 ppb
Sodium	< 1 ppb
With 0.05 micron UF-	
Endotoxin	< 0.03 EU
With Combination UV / TOC Destruct-	
TOC	< 3 ppb

## ORDERING GUIDE

GMS-102	110 VAC Unit w/ 0.2 µ Filter
GMS-105	110 VAC Unit w/ 0.05 µm In-Line Filter

## OPTIONS & ACCESSORIES

GMA-DG	Dispensing gun and tubing kit
GMA-UV	U.V. Combination for bacteria and TOC destruct
GMA-DF	Direct feed
GMA-WB	Wall mounting bracket
AFK-002	Cartridge Kit w/ (2) high purity cartridges
AFK-006	Cartridge Kit with (2) Hhgh purity and 0.2 micron cartridges
AFK-008	Cartridge Kit with (3) high purity Low TOC Cartridges and (1) 0.05 µ ultrafilter
AFK-009	Cartridge Kit with (3) high purity Low TOC Cartridges
PF-00-6505	In-Line Hollow Fiber 0.05 micron UF for pyrogen removal
HPA-005	Sanitization Kit
HPA-008	220 VAC external power converter
HPL-RO	Reverse Osmosis pretreatment

## MADE IN USA

PROUD TO BE  
ISO 9001 : 2008 CERTIFIED



*Note: Ordering information subject to change without notice. Please verify all specifications prior to ordering. For more information Call: (856) 768-9600.*

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