

# ATOMUS<sup>®</sup>

## +F11



### Easy to Handle Cartridges

Spent cartridges are non-toxic and can be safely disposed of in the garbage or landfill.\*

## Unparalleled Arsenic Removal in user-friendly Cartridges

ATOMUS F11<sup>®</sup> is a proprietary binary metal media specially formulated for removing Arsenic from drinking water. It is one of only two arsenic removal media in the industry in powder form. Powder has much more surface area than granular medias. This gives it the ability to pull arsenic out of a water stream in less than 30 seconds versus 3 to 5 minutes with granular medias. This fast uptake is precisely what makes the unique, no backwashing, ATOMUS F11<sup>®</sup> cartridge technology possible.

### Clean and Convenient

ATOMUS F11<sup>®</sup> cartridges are sealed so there is never any contact with messy media.

- 42" long, 4.5" in diameter and weighing 31 lbs. cartridges can be loaded by one person
- No need for backwashing
- Spent cartridges can simply be thrown in the garbage\*

ATOMUS F11<sup>®</sup> has demonstrated twice the arsenic loading capacity, longer life and shorter reaction time (EBCT) than iron-based medias.

- Unparalleled non-leachable arsenic bond
- Removes Arsenic III & V simultaneously
- NSF 61 certified for drinking water use
- Non-toxic. Always passes the USEPA TLCP test as non-hazardous waste safe for landfill\*
- Imparts no odor, taste or color to water
- pH range greater than any other Arsenic absorption media
- Least impacted by competing ions like Silica, Phosphorus or Vanadium



Certified to  
NSF/ANSI 61

\* USEPA TCLP tested as non-hazardous waste safe for landfill, but due to variances in influent water quality, users are urged to perform independent verification of the non-hazardous character of spent media cartridges. Additionally, some states may have disposal criteria different from Federal guidelines (TCLP).

## ARSENIC REMOVAL MADE PURE & SIMPLE



### CONVENIENT CARTRIDGE SYSTEM NO BACKWASHING

## Arsenic Removal Cartridge Specifications:

<b>SYSTEM TYPE:</b>	Media in Cartridges	<b>MEDIA TYPE:</b>	Binary Mixed Metal Adsorption Media
<b>Cartridge Size:</b>	4.5" D X 42" L	<b>Contaminant Removal:</b>	Arsenic III & V, Plus Phosphate, Chromium, Selenium, Fluoride
<b>ph Range:</b>	5.5 – 10.5	<b>Pressure Drop:</b>	Less Than 10 Psi
<b>Minimum Empty Bed Contact Time (Ebct):</b>	30 Seconds	<b>Ph Zero Point-of-charge (Zeta Point):</b>	12
<b>Backwashing</b>	None	<b>Media Disposal:</b>	Landfill*
<b>Cost per Gallon Treated:</b>	Low	<b>Certifications:</b>	Media & Cartridge Housings NSF 61 and 372 Certified

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MANUFACTURED BY APPLIED PROCESS EQUIPMENT, INC.

### Housing Options

#### Multi-Vessel Cartridge Skid Systems



**50 GPM SKID**  
Model: ISO-50-SS



**100 GPM SKID**  
Model: ISO-100-SS

#### Free-Standing Vessels



**25, 20, 15/10 and 5 GPM**  
Models: ISO-25-SS / ISO-20-SS / ISO-15-SS / ISO-10-SS / ISO-5-SS

- NSF/ANSI/CAN 61 Certified
- 100 and 150 psi, 304 Stainless steel construction
- Quick Inlet/Outlet installation
- Ideal for 5 GPM to 500 GPM systems
- Stainless steel or polypropylene pre-filters included
- No waste stream or sewer hook-ups
- Multiple skids can be combined for larger flow rates
- Simple one-man cartridge replacement
- No Backwashing required

**APPLIED  
PROCESS**  
EQUIPMENT, INC.  
  
**WATER TREATMENT**

**9332 North 95th Way  
Suite B 106  
Scottsdale, AZ 85258  
480-998-4097  
sales@apewater.com**