



# Element33

## Water Filtration Systems



### Whole-house effective treatment of:

- ◆ Arsenic III (Arsenite)
- ◆ Arsenic V (Arsenate)
- ◆ Iron and Hydrogen Sulfide

### Features

- ◆ Effective removal of arsenic without harsh chemicals or additional equipment
- ◆ Long-lasting media, regenerated with water alone
- ◆ Improved water quality, free from nuisance minerals
- ◆ Postage pre-paid test bottles for the first year
- ◆ Insulated tank design to eliminate condensation
- ◆ Exclusive 5 year APM™ warranty

Arsenic is Number 33 in the Periodic Table of Elements. It is a naturally occurring carcinogen found in drinking water supplies all across North America. Long term exposure to arsenic has been proven to cause serious disease, including cancer.

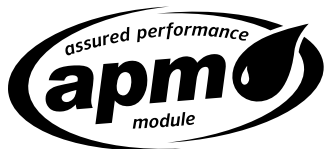
\*See official warranty for details



Model EL33-150 and EL33-250 are certified by IAPMO R&T against NSF/ANSI 42, 53 and IAPMO IGC 370 for Pentavalent Arsenic, Trivalent Arsenic, Iron, and Hydrogen Sulfide reduction claims. They are also certified to NSF/ANSI/CAN 61 and 372 for material safety and lead free requirements



## Element33 Water Filtration Systems



Nearly all serviceable parts lie within the removable/replaceable APM™ module. This eliminates costly and time consuming field repairs.



### How it works

Element33 treatment systems feature a proprietary, catalytic filtration media capable of removing high levels of both arsenic III (arsenite) and arsenic V (arsenate), in addition to low levels of dissolved iron, and hydrogen sulfide (sulfur/rotten egg odor). The media is long lasting (typically 5 years) and requires no chemicals for regeneration, instead relying solely on a nightly backwash cycle. The oxygen dissolved in the backwash water effectively oxidizes and cleans the media bed.

| Specifications                                                          | EL33-150 | EL33-250 |
|-------------------------------------------------------------------------|----------|----------|
| Maximum Flow (gpm) <sup>1</sup>                                         | 6        | 10       |
| Maximum Arsenic (ppb or µg/L)                                           | 50       | 50       |
| Capacity (gal)                                                          | 1500     | 2000     |
| Combined Fe + Mn + H <sub>2</sub> S Capacity (ppm or mg/L) <sup>2</sup> | 5        | 5        |
| Minimum Fe (ppm or mg/L) <sup>3</sup>                                   | 0.3      | 0.3      |
| Minimum Dissolved Oxygen (ppm or mg/L) <sup>3</sup>                     | 2        | 2        |
| Mineral Tank Dimensions (in)                                            | 10 x 54  | 13 x 54  |
| Inlet / Outlet Connection Height (in)                                   | 56       | 56       |
| Overall Height (in)                                                     | 62       | 62       |
| Media (cu ft)                                                           | 1.5      | 2.5      |
| Inlet / Outlet Pipe Size (in) (NPTF)                                    | 1        | 1        |
| Pipe Centers (in)                                                       | 2        | 2        |
| Backwash Rate (gpm)                                                     | 3.0      | 5.0      |
| Backwash Time (min)                                                     | 20       | 20       |
| Regeneration Frequency                                                  | Daily    | Daily    |
| Drain Tubing Size (od) (in)                                             | 5/8      | 5/8      |
| Approx. Shipping Weight (lbs)                                           | 100      | 160      |

<sup>1</sup>Exceeding max flow rate may reduce % of arsenic removed

<sup>1</sup>Pressure loss at max flow rate: EL33-150 = 6 psid, EL33-250 = 8 psid

<sup>2</sup>Exceeding 5 ppm iron, manganese and hydrogen sulfide will reduce the system's flow capabilities. Contact WCC for system sizing

<sup>3</sup>Contact WCC if levels are below this minimum

\*Recommended feed water Total Suspended Solids (TSS) < 1 ppm

\*\*This system is for non-chlorinated (well) water only

### Primary components

APM™ control valve

High efficiency catalytic/oxidization media



**NOTE: arsenic is a carcinogen. It is critical to test water no less than 4x per year to ensure proper system operation. WCC offers this testing/verification for a small fee. Details are available at <https://watercontrolinc.com/element33-arsenic-removal> or in the system operation and maintenance manual. (First 5 test bottles included with system.)**

**Note: WCC highly recommends installing a water softener downstream of this system if incoming water contains hardness or manganese.**



7150 143rd Ave NW  
Ramsey, MN 55303

[www.watercontrolinc.com](http://www.watercontrolinc.com)  
1-866-405-1268