



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.

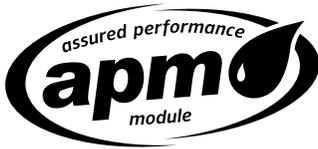
*See official warranty for details



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



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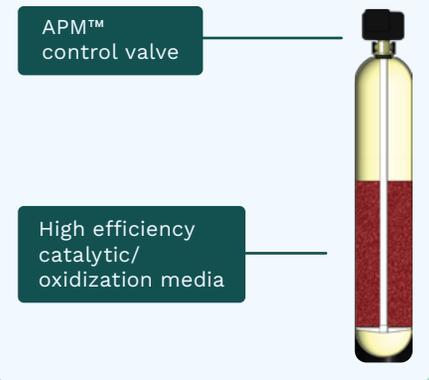
Nearly all serviceable parts lie within the removable/replaceable APM™ module. This eliminates costly and time consuming field repairs.



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.

Primary components



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.

Specifications	EL33-150	EL33-250
Maximum Flow (gpm) ¹	6	10
Maximum Arsenic (ppb or µg/L)	50	50
Capacity (gal)	1500	2000
Combined Fe + Mn + H ₂ S Capacity (ppm or mg/L) ²	5	5
Minimum Fe (ppm or mg/L) ³	0.3	0.3
Minimum Dissolved Oxygen (ppm or mg/L) ³	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)	1.7	3.0
Backwash Time (min)	20	20
Regeneration Frequency	Daily	Daily
Drain Tubing Size (od) (in)	5/8	5/8
Approx. Shipping Weight (lbs)	100	160

¹Exceeding max flow rate may reduce % of arsenic removed

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

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

³Contact 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



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