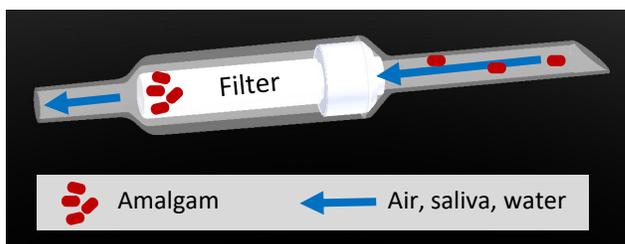


How Does Capt-all Work?

When the Capt-all device is connected to the High Volume Evacuator (HVE) tip, air, saliva, and water vacuum feed into the Capt-all device. Amalgam and other solids are trapped in the filter, then air, saliva, and water are vacuumed out. The Capt-all device is removed and placed in the recycle box.



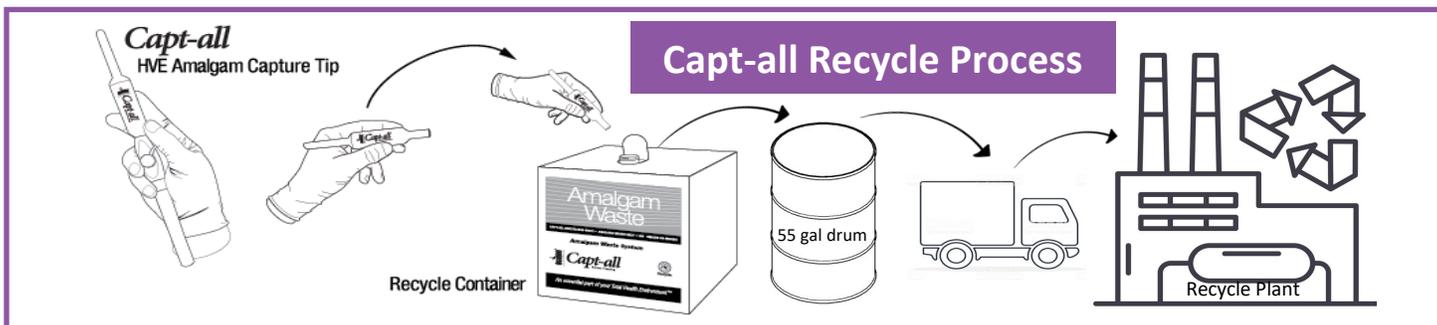
Why Capt-all?

Dental offices use the Capt-all® Amalgam Waste System instead of the standard evacuation tip. The amalgam capture happens in one hand-held unit for amalgam placement or removal treatment. This keeps mercury out of vacuum systems, and ultimately out of the water supply.

Each tip is designed to be guaranteed safe, prevents backflow risk, and each is individually wrapped at an FDA registered facility that utilizes the required CGMPs to produce, making Capt-all the safest collection system available for both patient and dental professional. Capt-all ensures each device works properly every time.

By comparison, equipment room amalgam separators do not prevent backflow, require filter monitoring, and often by-pass the separator when not monitored, resulting in mercury sent into the waste-water, allowing dissolved mercury into central water supplies. See reverse for two types of separators currently being used in dental offices.

Capt-all Recycle Process



Capt-all Evaluation Results

Two separate studies verified that the Capt-all® Amalgam Waste System exceeds the ISO requirements of 95% removal of all amalgam, meeting the specifications of ISO 11143:2008 Dental Equipment—Amalgam Separators. Capt-all is classified as an EPA Equivalent Device meeting all best management practices under the final ruling, 40 CFR part 441.

Purves Environmental Report

The Capt-All maintained an average 99.4% retention with a Standard Deviation of 1.23%. The additional bonus is that the total Mercury that passed through is below 0.00001%. The table below provides a comparison to Standard Amalgam Separators. The samples in the table below came from the contents of separators directly in offices 1,2,5,6,7. Office 7 was the same office as #1 but with a separator that has treatment for dissolved Mercury. Offices 3 and 4 samples were taken at the vacuum trap.

Office	Total Mercury in ng/L	Dissolved Mercury in ng/L	Separator Type
1	17,500,000	7,500,000	Duel Chamber No Treatment
2	7,290,000	2,530,000	Duel Chamber No Treatment
3	660,000	452,000	Duel Chamber No Treatment
4	534,000	378,000	Duel Chamber No Treatment
5	1,250,000	811,000	Single Chamber No Treatment
6	10,200,000	5,210,000	Single Chamber No Treatment
7	65,600	36,000	Duel Chamber With Treatment
Capt-all	5283	N/A	N/A

The data clearly shows that the Capt-all not only retains 99% of the amalgam but even retains mercury that would have entered the environment by factors of 10 to over 3000 times.

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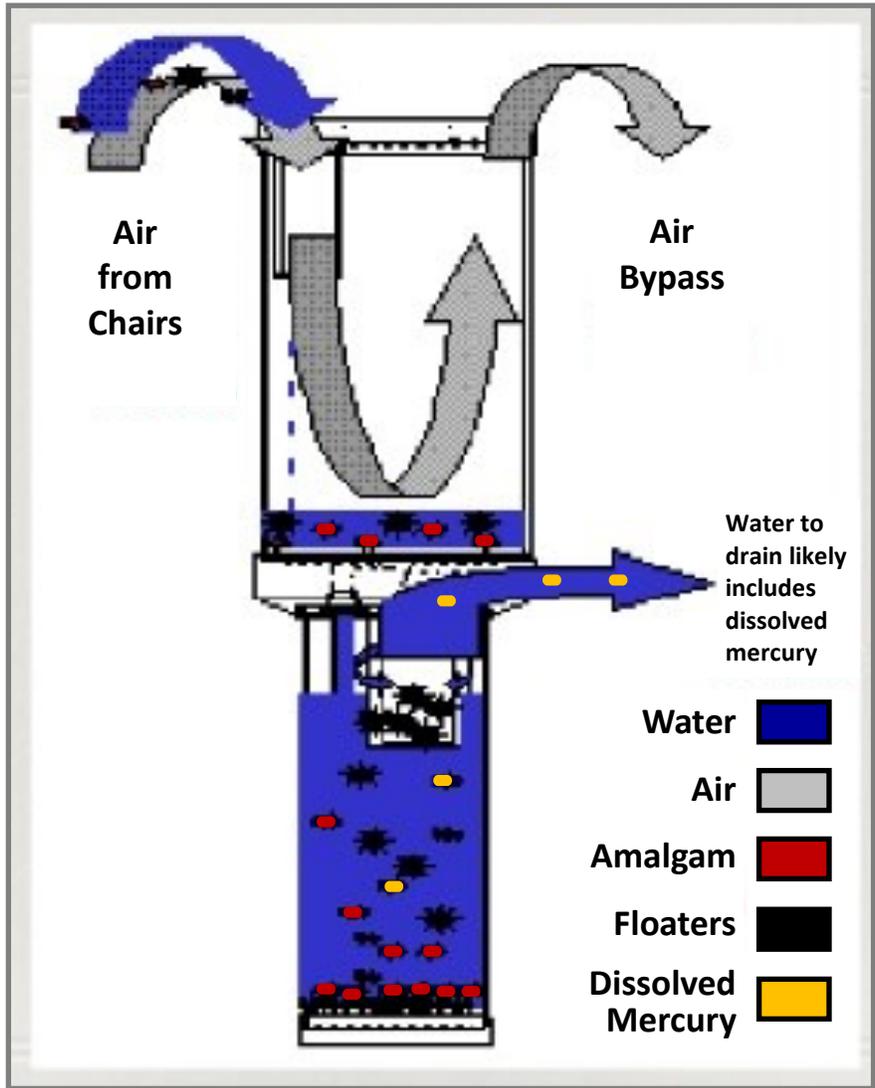
Capt-all Amalgam Separator Efficiency Report 08/16/2018

Sample #	Mass of Amalgam Sample [m1] (g)	Mass of Microfilters before test [m2] (g)	Mass of Microfilters after test [m3] (g)	Efficiency [η] (%)	Average Efficiency [η] (%)
1	9.725	0.593	1.037	95.434	95.430
2	9.875	1.186	1.633	95.478	
4	9.922	1.393	1.852	95.378	

The efficiency value for the Eco100 Capt-all Filter is 95.4%, which meets the EPA Final Rulings for an Equivalent Device: 441.30(a)(2)(i-iii). Test was performed under the specifications of ISO 11143:2008 Dental Equipment—Amalgam Separators.

Types of Separators Currently in Use at Dental Offices

Sedimentary Style Amalgam Separator



Filter Style Amalgam Separator

