

Amalgam Separation — Turning Responsibility into Action

SEPA STAR & ACADIA PLUS



AIR
TECHNIQUES equipped for life

What Leaves Our Drains Doesn't Just Disappear

Dental wastewater can carry amalgam particles containing toxic heavy metals like mercury, releasing an estimated 5.1 tons each year. Without proper separation, these pollutants can flow into local water systems, threatening drinking water and community health. What we don't separate today returns tomorrow. That's why advanced amalgam separation is essential—not just for compliance, but for protecting water, people, and the future.

Your responsibility as a dental practice includes:

- Installing and maintaining a compliant amalgam separator
- Regularly monitoring separator performance
- Ensuring proper collection and disposal of amalgam waste

Regulatory Compliance

Dental practices play a critical role in preventing mercury from entering wastewater systems—this is why the EPA Dental Amalgam Rule mandates the use of compliant amalgam separators.

Air Techniques makes compliance effortless with proven separator technology, an intuitive online compliance portal, and streamlined recycling solutions.

Compliance isn't optional. With Air Techniques, it's simple, secure, and responsible.

KEY FACTS ABOUT DENTAL CLINICS AND MERCURY:

- Dental clinics are the main source of mercury discharges to POTWs.
- The EPA estimates about 103,000 dental offices use or remove amalgam in the United States; almost all of these send their wastewater to POTWs.
- Dentists discharge approximately 5.1 tons of mercury each year to POTWs; most of this mercury is subsequently released to the environment.



ACADIA PLUS Simple & Reliable

Proven Simplicity from a Trusted Brand

With decades of experience, Air Techniques delivers ACADIA PLUS—a cost-effective amalgam separator designed for reliable performance and effortless integration.

Easy Installation. Maximum Flexibility.

ACADIA PLUS works with all wet and dry vacuum systems and installs free-standing or wall-mounted—no additional power, wiring, or plumbing required. Reversible mounting ensures fast, hassle-free setup in any mechanical room.

Benefits at a glance

- ISO 11143 certified — proven performance and compliance.
- Large-capacity collection filter captures up to one year's worth of amalgam waste.
- Transparent housing provides a clear view of separation and filter fill level.
- Tool-free cartridge replacement — just twist off and replace, with no pins or clips.
- One ACADIA PLUS unit supports up to ten simultaneous users.

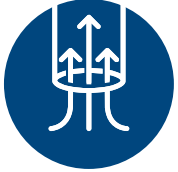


SEPA STAR

Smart. Safe. Sustainable.

Designed for modern dental practices, SEPA STAR combines powerful, centralized separation with intelligent performance—protecting your equipment, ensuring compliance, and driving efficiency in one smart system.

A New Standard in Amalgam Separation



No Loss of Suction Power

With SepaStar located after the vacuum system, suction performance across all operatories is optimized. If your practice struggles with weak suction, SepaStar offers a better solution.



Lower Operating Costs

Unlike filter-based amalgam separators that clog with prophylaxis paste and require frequent cartridge replacements, SepaStar captures only amalgam. That means fewer unnecessary filter changes, less maintenance, and lower operating costs.



Built for Mid to Large Practices

SepaStar is ideal for busy clinics, larger multi-operator practices, and offices where prophylaxis paste frequently causes filter clogs. Its efficient design eliminates the need for multiple separators, high-volume high-cost systems, or multiple costly filter changes.*

> **99%**
Efficiency



OPERATIONAL SAVINGS
from fewer filter changes
DOES NOT FILL
PREMATURELY
with prophylaxis paste

INCREASE IN VACUUM PERFORMANCE
+25%
measured in
some practices

Smart Fill-Level Monitoring

Intelligent sensors track the cartridge status and alert you only when replacement is needed, reducing maintenance effort and preventing downtime.

Self-Cleaning by Design

Hydrodynamic self-cleaning reduces maintenance effort while ensuring consistently reliable performance.

Certified Performance

ISO 11143 certified with a proven **99% separation efficiency** for reliable environmental protection.

Seamless Mojave Monitor Integration

SepaStar integrates effortlessly with Mojave Monitor Dry Vacuum Systems, specifically V3M, V5M, V7M, V15M, and all multiple-unit configurations

Reliable Under Any Load

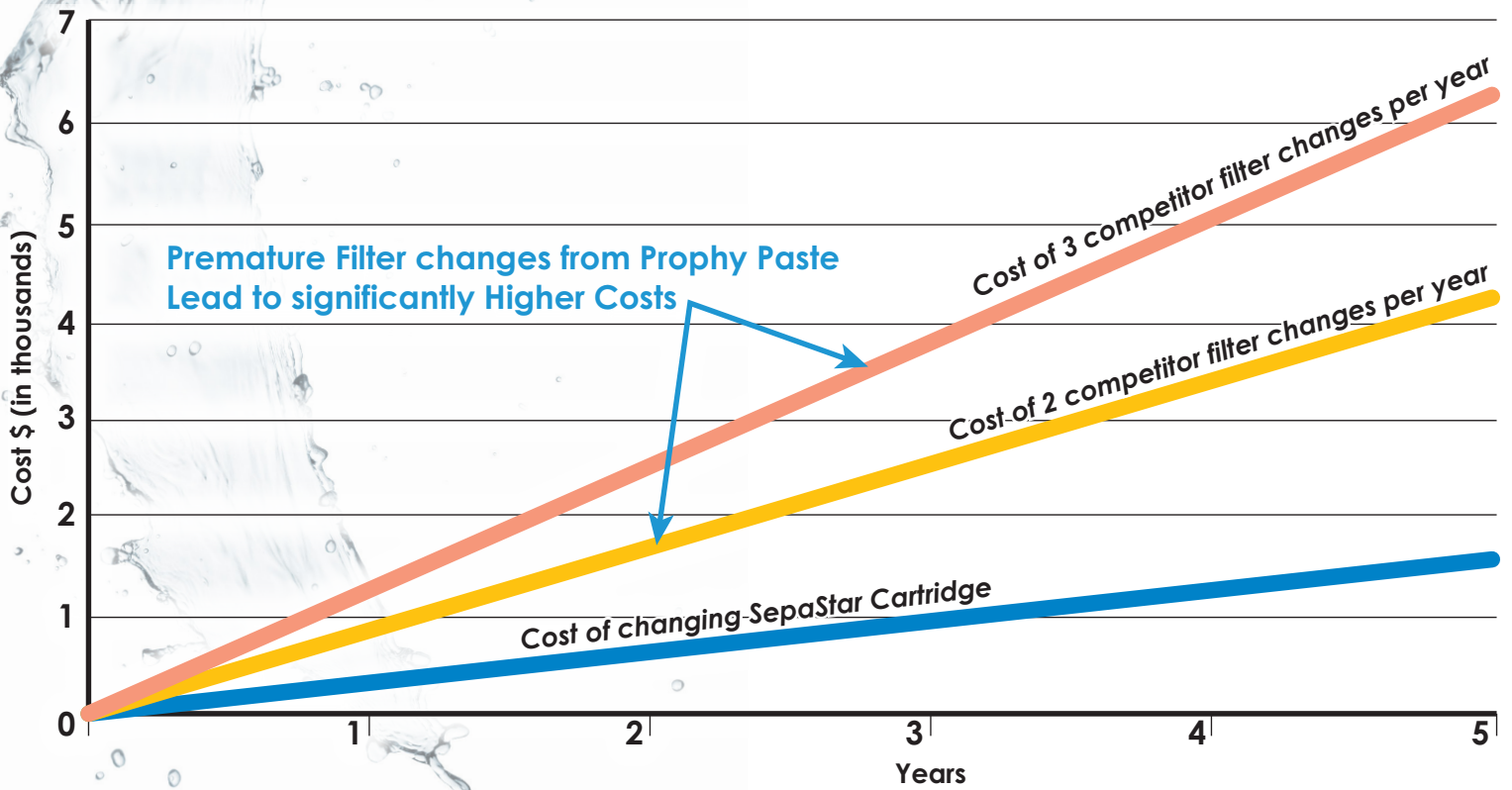
Centrifugal separation ensures consistent, dependable performance even under high flow conditions.

Energy Only When Needed

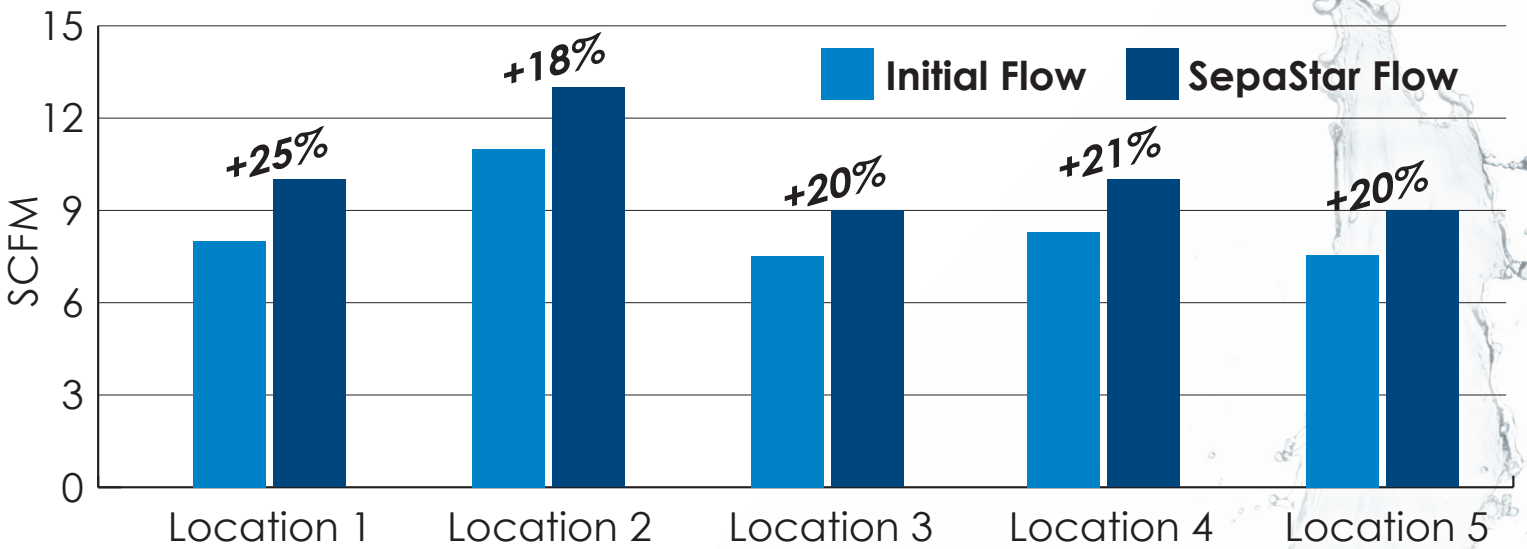
Automatic on-demand operation activates the system only when required, conserving energy without compromising performance



One SEPASTAR saves you more over time



Measured Vacuum Performance Increase After Removing Filter-Based Systems



Simple maintenance in a few easy steps

SEPA STAR cartridge change



Step 1: Lift front handle all the way up, carefully pull out cartridge.



Step 2: Close lid on old cartridge with the new lid supplied in the box, make sure dots in the front align.



Step 3: Place the old cartridge in the box the same way the new filter was sent.



Step 4: Insert new cartridge, close the handle all the way to lock.

ACADIA PLUS filter change



Step 1: Twist used Filter off.



Step 2: Pack used Filter into provided shipping materials.



Step 3: Twist new Filter on.

AMALGAM SEPARATOR RECYCLING PROCESS

Follow the steps below to return your used filter and obtain your Recycling certificate (USA & Canada only).

STEP 1: Log into the Air Techniques Portal (www.airtechniques.com/portal)

STEP 2: Register your Air Techniques Amalgam Separator by the Unit Serial Number

STEP 3: Print a Shipping Label - Click "Create Recycle Shipping Label" in the "Detail" link.

STEP 4: Ship the Used Filter

STEP 5: Retrieve your Certificate - Once the filter has been recycled, your certificate will be available on the portal.

Specifications

Part No.	Description	Recommended Users	Efficiency (ISO 11143)	Connection Type	Dimensions WxDxH (in)	Installation	Voltage	Current
A1700	SepaStar	1-20+ 1 SepaStar per Mojave Tank	>99%	Post vacuum connection	10 x 16 x 13	Free-standing or wall-mounted	220V	1.4 A
APLUS	ACADIA PLUS	Up to 10	>95%	1½" or 2" no-hub (included)	12 x 11 x 28	Free-standing or wall-mounted	N/A	N/A



Part Number	Description
A1700	SepaStar Amalgam Separator
A1702	SepaStar replacement cartridge and recycle kit
A1706	Mojave install kit, MT10-M tank
A1707	Mojave install Kit, Continuum tank
A1708	SepaStar Recycle Only Kit
APLUS	ACADIA PLUS Amalgam Separator
APREC	ACADIA PLUS Collection Container Filter & Recycle Kit
APKIT	ACADIA PLUS Collection Container Recycle Kit



airtechniques.com

Over 60 Years Of Proven Performance

Over 60 years ago, Air Techniques introduced its first dental air compressor. Today, Air Techniques air compressors and vacuum systems are the standard for dental utility equipment. They are used to power more dental offices in North America than all other air compressors and vacuum systems combined.

Nearly two decades ago Air Techniques introduced one of the first dry vacuum systems in dentistry designed to reduce water usage by dental offices in response to the rapidly growing costs of water. Mojave Monitor is the next generation of dry vacuum systems from Air Techniques. Mojave Monitor Dry Vacuum Systems enable dental facilities from the smallest solo practitioner to the largest of clinics experience the suction power, reliability and eco-friendly benefits only dry vacuum systems can provide.

Easy Maintenance

CleanStream helps maintain dry vacuum performance by preventing debris buildup in evacuation lines. To support peak vacuum and SepaStar performance, use only CleanStream Evacuation Cleaner daily.



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