

# Recycling of Dental Amalgam

## AMALGAM SEPARATORS

- The solution to stop your waste amalgam going to the sewer
- No maintenance required
  - No staff handling
  - Superior efficiency
- Trade waste approved
  - EPA approved local processing



The Mercury from one amalgam tooth filling is enough to pollute 30,000 litres of water beyond a safe level of drinking.

The best Amalgam Separator  
in Australasia

 **cma**ecocycle





# Amalgam waste causes severe damage when it enters the environment



Since amalgam has been long recognised as beneficial in restoring and maintaining the dental health of patients, it has been understandably difficult to convey a message of serious environmental concern for mercury. However, world wide studies by health and environment experts have shown that mercury causes severe damage when it enters the environment. This brochure explains the mercury contamination problem, particularly dental amalgam waste, and offers a high-tech solution to the dental community for the management and disposal of amalgam waste.

## Mercury Contamination

Dental amalgam is about 50% mercury by weight - other components include silver, zinc, copper & tin. Mercury is ranked third in the U.S. Government list of hazardous substances. The World Health Organization has identified mercury as the number one environmental poison and it is also the Environmental Protection Authority's (E.P.A.) number one toxin of interest. Mercury is on the U.K. 'red list' of dangerous substances which represent the greatest threat to the aquatic environment.

Dental amalgam fillings are a major source of mercury entering our waterways. Even a small amount discharged through the sewer system can be detected. For example only 1 gram can contaminate 1,000,000,000 (one billion) litres of wastewater to a concentration above the acceptable level. Studies show the average dentist discharges approximately 1 gram of mercury each working day through wastewater. This is a serious problem that needs to be urgently addressed and resolved. Australia is one of the last countries yet to embrace the use of separation technology to stop mercury from entering our sewerage and waterways.

Due to its high toxicity and tougher regulations governing its disposal, landfill and incineration are no longer acceptable means by which to safely dispose of mercury bearing waste.

High levels of mercury present in Australian sewerage sludge prevents its use as an industrial fuel source or land application. Instead, it is an expensive clean up liability for the government and water authorities.

## Case study

In two Danish townships, Ringe and Trehøje, mercury levels up to 7 times the acceptable limit were found. Interestingly both of these townships had no heavy industry. The local authorities suspected dental amalgam as the source of the mercury and demanded fitting of amalgam separators for all dental surgeries. As expected, the mercury content in the sludge reduced to acceptable levels within 12 months, confirming that dental amalgam was in fact the source of the pollutant.



Imagine

# Amalgam Separator ECOAS04 provides a total solution to all your Amalgam waste problems



The ECOAS04 is a reliable, unique ecological technology with no moving parts, no electronics, no motors, no power and no maintenance. It's a system based on retention, enhanced sedimentation and electrochemical reaction with a separation efficiency of 99.5%. We install, change over, process and recycle, then treat the waste and recover the metals before cleaning the unit for reuse. Amalgam waste is processed in Melbourne, Australia - the only state-of-the-art E.P.A approved and licensed facility in Australasia.

ECOAS04  
has superior  
separation at  
**99.5%**

## Benefits

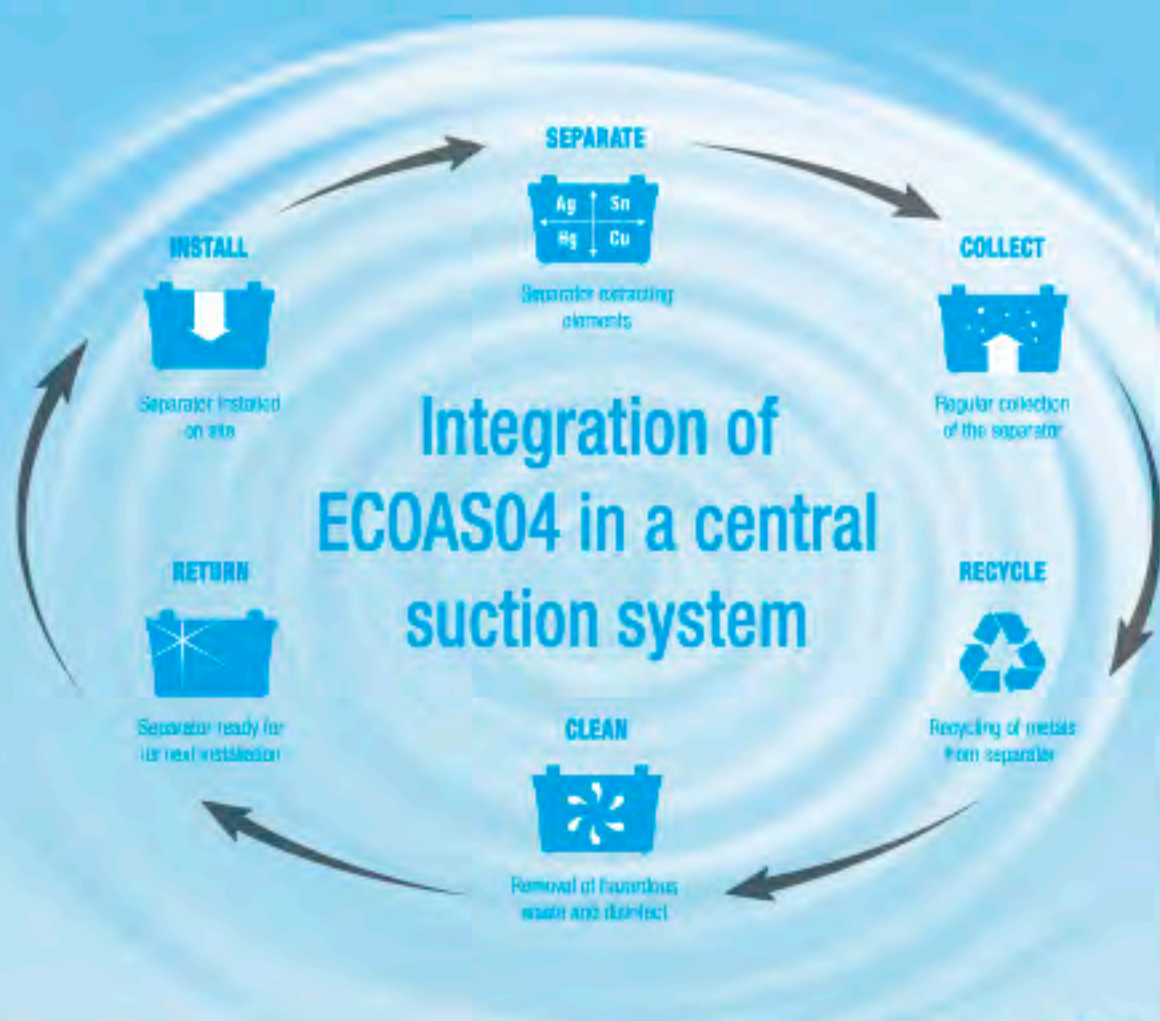
- Dental staff not required to handle, maintain or clean the unit
- Does not affect the suction pressure
- Fits all wet and dry suction systems
- Decades of successful marketing around the world warrants this well proven, safe and efficient system
- Up to three dental chairs can be catered for with one ECOAS04 unit
- All waste handled and processed in Australia in EPA approved licensed facilities
- Closed loop process with all distilled Mercury being sold to the dental industry for remanufacturing into capsules





# Responsible recycling is only a phone call away

- Easy payment plan
- No capital outlay
- Lease arrangement, monthly terms



## Specifications

Weight (empty): 7kg

Tube In / Out: 25mm

Water flow: 6 litres per min

Efficiency: 99.5%





Responsible  
recycling  
today

will ensure  
a better  
environment

for future  
generations







## Services offered to the dental industry

Installation of dental separation equipment

Collection and recycling of amalgam waste

Collection of coarse amalgam,  
lead tabs, capsules, fixer, developer and x-ray films.



Melbourne (03) 9308 9415 • Sydney (02) 9833 4155 • Brisbane (07) 3260 1796  
Perth (08) 9302 6887 • Adelaide (08) 8262 4558 • Launceston (03) 6326 3177

Servicing all states and country areas in Australia.

**Call 1300 ECO CYCLE | 1300 32 62 92**

**[www.cmaecocycle.net](http://www.cmaecocycle.net)**

*Do your bit to support "responsible recycling"*