

# Dürr Dental separation systems and amalgam separators

Top quality for dental suction systems



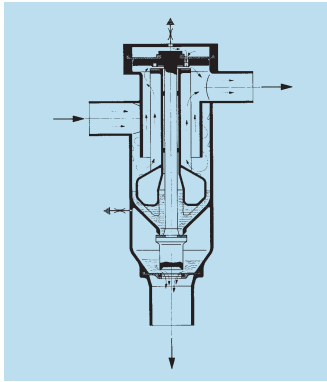
# Dürr Dental – combining a spirit of innovation with passion for detail

Dürr Dental has stood for progressive and trend-setting solutions in dental medicine for more than 80 years. Numerous standards can be traced back to developments from Dürr Dental – with new benchmarks being set even today.

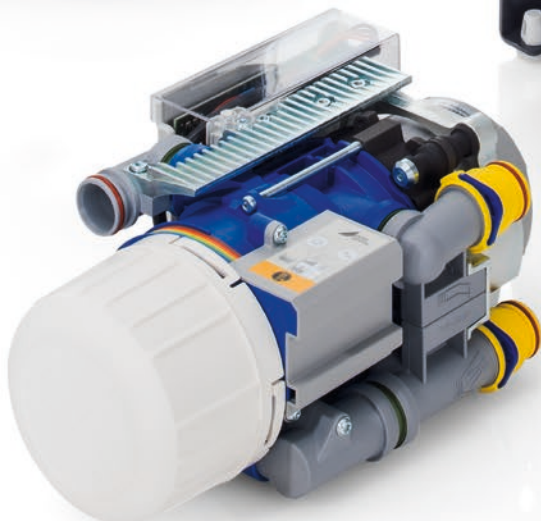
With an array of compatible system solutions for compressed air, suction, imaging, dental care and hygiene, Dürr Dental provides high-quality products and excellent service for every need. In 1964, Dürr Dental's suction system made it possible to treat its European patients in a reclined position. One year later, the company introduced the first oil-free compressor for dental medicine to the market. The high performance and air quality of Dürr Dental compressed air systems have established them as market leaders. Dentists trust the engineering skills and top-notch quality that are delivered by the innovation leader. Dürr Dental products can be found in surgeries and clinics all over the world – and have done so for decades.



PROGRESS STARTS  
WITH IDEAS



FOR OVER 70 YEARS  
TOTAL DEDICATION



OUR INNOVATIONS  
ARE THE RESULT OF  
CONSTANTLY THINKING  
ABOUT TOMORROW  
TODAY



# Reliable separation and amalgam separator systems guarantee the highest performance



## Powerful and reliable separation

Dürr Dental separation systems set standards. Not only can they be relied upon to separate secretion and solids, they also operate at a pleasantly low volume. No wonder then that they are an integral ex-works component of the treatment units being produced by leading manufacturers. But retrofitting is also very straightforward and worthwhile.



## No amalgam into the waste water

The process that starts with the separation unit is completed by the amalgam separator. By law, amalgam must be filtered out of the waste water produced by the treatment unit, separated and collected. As a pioneer in dental suction systems, Dürr Dental has been working on the development of high-performance amalgam separators since the start of the 1980s. It goes without saying that all of our systems bear the quality promise "Made in Germany". They also meet the requirements defined for the whole of Europe in ISO standard 11143:2008.

WE NOT ONLY DEVELOP  
ADVANCED SYSTEM SOLUTIONS  
BUT ALSO THINK  
ABOUT THE ENVIRONMENT.



## Proper disposal

Equally it goes without saying that we can offer you a practical disposal concept. After separation, the amalgam is automatically transported to a collection container. The container only needs to be changed when its maximum fill capacity is reached. Its disposal is subject to legal guidelines and is performed by authorised specialist companies.



# Stay relaxed with a clear view of everything – with Vista Soft Monitor

If service intervals are missed, this can not only lead to increased wear and energy consumption, but it can also shorten the service life of your practice equipment – or even cause it to break down completely. Whether by PC or mobile phone, you can keep a clear overview of what is going on in the practice at all times – no matter where you are. As an option, you can also take out a service agreement with a participating specialist dealer so that they take care of looking after your equipment for you. This will leave you free to concentrate 100 % on your patients.

In addition, with the aid of a Connect Box you can also integrate devices into your VistaSoft Monitor account that are supplied by other manufacturers or are otherwise not network-capable, thus enabling you to implement basic monitoring of all the key operating parameters for these systems as well.

## This is what counts:

- Functional status of all connected units as an overview in the task bar of the PC
- Display of the operating conditions of the various units provides reassurance
- Reminder of pending replacement of the amalgam collecting container
- Maintenance and cleaning plans can be stored

## Disposal made easy!

When the amalgam container reaches a fill level of 95 %, the practice, specialist dealer and the disposal company receive an automated notification.

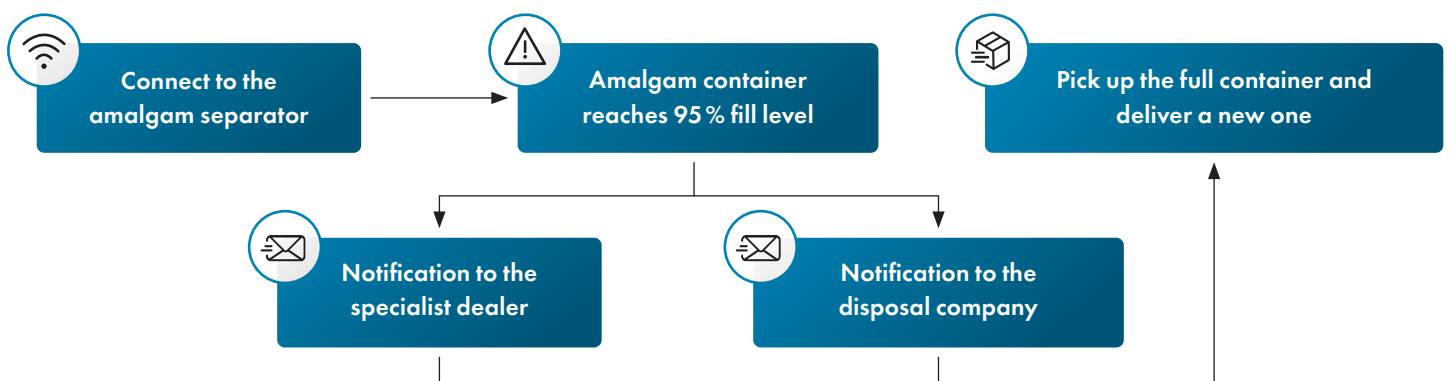
This informs retailers and disposal companies that disposal and replenishment is due, and they can contact the practice to follow up.



Scan me



## And it's as easy as this:



# Reliable separation for dry suction systems

## CS 1 and CAS 1: The integrated solution

The CS 1 Combi-Sepamatic and the CAS 1 Combi-Separator from Dürr Dental are valuable additions to any treatment unit. The units impress with their quiet yet powerful drives and can effortlessly manage even treatments that last several hours and involve large amounts of fluids. The two-stage separation effectively prevents blood foam from being carried along during aspiration, thus protecting the dry suction unit that is connected downstream. The CS 1 Combi-Sepamatic is purely an automatic separator. The CAS 1 Combi-Separator combines air/water separation and amalgam separation. Both units can either be integrated in the treatment unit or installed externally.

The two-stage system with cyclone separator and dynamic separation turbine is noticeably more powerful than traditional, single-stage methods and can hardly be heard during operation. This allows the dentist to focus his or her concentration on the treatment of the patient.

The amalgam centrifuge of the CAS 1 is self-cleaning and achieves a certified separation rate of > 95 %.

As an option, an additional rinsing unit can be connected to both units. In this way, the entire suction system is even more hygienic in operation, as the constant water film prevents particles from being deposited and blood from coagulating. Both the CS 1 Combi-Sepamatic and the CAS 1 Combi-Separator fit in many treatment units and are installed ex-works by leading manufacturers.

OUR AIM IS ALWAYS  
TO ACHIEVE THE BEST RESULT  
FOR OUR CUSTOMERS



CS 1 Combi-Sepamatic



CAS 1 Combi-Separator

# Perfect combination: Suction and separation

## VSA 300 S: The 3-in-1 combination suction unit

The VSA technology developed by Dürr Dental combines the complex system of suction unit, separation and amalgam separation into a single unit and on one drive shaft – the VSA 300 S. It is especially suitable for one-room practices.

With this combined suction unit, more than > 95 % of the amalgam lands in the collecting container, which is monitored by an automated function. When the fill capacity reaches 95 %, the VSA 300 S sends an optical and audible signal indicating that the container needs to be changed. Dürr Dental suction systems generate the vacuum that is required for smooth and hygienic treatment. The continuous suction power of approx. 300 litres volume flow per minute at the large cannula makes for perfect visibility in the preparation area and prevents a contaminated aerosol cloud. Before the separated waste water is drained off by the waste water pump, it is diverted into the centrifuge, where the existing amalgam particles are separated.

### This is what counts:

- Integrated suction and air/water separation system with amalgam separation for one treatment unit
- Suction power of 300 l/min
- Separation rate of > 95%
- High efficiency and operational safety
- High degree of foam compatibility due to two-step separation
- Flexible installation options



VSA 300 S – the first suction unit which separates and eliminates amalgam



# Amalgam separation for wet and dry suction systems

## CA 1: The external solution

The CA 1 amalgam separator with self-cleaning centrifuge in its practical housing is the ideal solution to equip an individual treatment chair with an amalgam separator. The unit is also suitable for the retrofitting of a single-station suction unit with integrated separation, such as the Dürre Dental VS 300 S.

With a tested separation rate of > 95 % and its sturdy construction, it is set up in virtually the same way as the CAS 1 Combi-Separator. The integrated floater reliably detects the water level and controls the CA 1 according to the requirements.



### This is what counts:

- Can be integrated in the treatment unit (CS 1/CAS 1)
- Can be used externally in housings suitable for dental practices
- Two-stage separation
- Low-noise, vibration-free operation thanks to the decoupled connections
- Hydrodynamic self-cleaning function for the amalgam centrifuge
- Simple and flexible installation
- Certified amalgam separation rate of > 95 %
- Retrofittable rinsing unit for hygienically safe operation

## CA 2: The solution for 2 therapists

The CA 2 amalgam separator is supplied with a pressure equalisation tank installed ex-works. This minimises installation time on delivery. Together with the VS 600 suction unit or the new Tyscor VS 2, this makes it the ideal solution for 2 therapists.



### This is what counts:

- All necessary components integrated
- Electronic fill level monitoring
- Large collection container for a long service life
- Compact and lightweight
- Powder-coated console

Optical and audible signals warn you that the collection container needs to be changed. This means that you only have to change it when it is actually full. It can be installed on the floor or easily mounted on the wall using the slotted holes.

### This is what counts:

- Centrifugal separator with hydrodynamic self-cleaning function
- Separation rate of > 95 %
- Electronic fill level monitoring
- 20 years of experience in the development of amalgam separators

OUR PROMISE:  
GUARANTEED TOP PERFORMANCE  
WITH ABSOLUTE RELIABILITY.

# Convenient for multiple room surgeries – eliminate amalgam centrally

## The CA 4: The universal solution

An attractive design, excellent performance and a convenient disposal concept make the CA 4 amalgam separator from Dürr Dental a system unit that impresses from every angle. Ideally equipped for the connection of multiple treatment units, the unit delivers advanced technology at the very cutting edge of technology. The CA 4 operates in accordance with the centrifugal principle with hydrodynamic self cleaning. The system switches on automatically as soon as waste water from the treatment unit starts to collect. A visual display provides information on the current operating condition at all times.



The space-saving solution to easily supplement combination suction units with an amalgam separator



### This is what counts:

- Centrifugal separator with hydrodynamic self-cleaning function
- Reliable and automatic fill level control
- Connection of several treatment units
- High flow rate of up to 16 l/min
- Separation rate of > 95 %
- Sensors control the CA 4 on demand

### Everything under control at all times

In contrast to conventional sedimentation separators, the CA 4 uses an individual fill level check. The fill level inside the container is checked before starting work and at regular intervals during treatment. An audible signal sounds as soon as the maximum fill level is reached. Only then does the container need to be replaced.

This procedure prevents unnecessary additional efforts, thus reducing costs. The handy lever mechanism also makes it easier to remove the container. With a separation rate of > 95 % and a flow rate of up to 16 litres per minute, the CA 4 impresses with excellent performance figures.



# Keep your suction system in good shape!



Around half of all suction units suffer from restricted performance due to deposits and blockages. This is because most units are disinfected but are not cleaned as well. As a consequence, substances such as blood, secretions, tooth material, filling materials and prophy powder form a dense sludge. This results in blockages that can lead to a drop in performance and – in the worst case – bring the surgery to a complete standstill.

## The solution from Dürr Dental: Orotol plus and MD 555 cleaner

Orotol plus and MD 555 cleaner work together to protect all the components of the suction unit (even the lines!) against deposits, contamination and encrustation. If used regularly, they can prevent a reduction in performance and extend the life of your suction unit.



Play it safe:  
Disinfection and cleaning with and without  
Orotol plus and MD 555 cleaner



## Orotol plus Disinfection of Suction Systems

Foam-free concentrate for the disinfection, deodorisation, cleaning and care of all suction units and amalgam separators.

- Bactericidal (inc. TB) fungicidal, limited viricidal (HBV, HCV, HIV) & non-enveloped viruses: (adeno, noro)
- Dissolves, disinfects biofilm and prevents accumulation of silt from blood and proteins
- Long-lasting effect – germ-resistance does not develop
- Certified material compatibility – recommended by leading equipment manufacturers

## MD 555 cleaner Special detergent for suction systems

Foam-free concentrate for all suction units and amalgam separators.

- Dissolves encrustations of lime scale, prophy powder or prophylaxis pearl products
- The most intensive cleaning effect against deposits and accumulations of silt
- Certified material compatibility, recommended by leading equipment manufacturers
- Ideal in combination with Orotol plus

# Technical data at a glance

C separation systems	CS 1	CAS 1	CA 1	VSA 300 S
Voltage (V)	24 (AC); 24-36 (DC)	24 (AC); 24-36 (DC)	24	230 (1~)
Frequency (Hz)	50-60	50-60	50-60	50
Electrical output (VA)	70	100	60	-
Current consumption (A)	-	-	-	2.9
Max. fluid flow rate (l/min)	2	4	4	4
Dimensions (H x W x D cm)				
without housing	15 x 16 x 12	25.5 x 15.7 x 11	25.5 x 15.7 x 11	47 x 31 x 32
with housing	43.5 x 25.5 x 16	43.5 x 25.5 x 16	43.5 x 25.5 x 16	51 x 36 x 36
Weight (kg)				
without housing	1.4	2.7	2.7	15.4
with housing	7.4	8.7	8.7	23.4
Separation rate (%)	-	> 95	> 95	> 95
Quality mark (DIBt*)	-	Z64.1-20	Z64.1-20	Z64.1-15

Amalgam separator		CA 2	CA 4
Voltage (V)		230 (1~)	230 (1~)
Frequency (Hz)		50-60	50-60
Electrical output (VA)		115	230
Dimensions (H x W x D cm)	without housing	34.5 x 30 x 31	41 x 25 x 32
	with housing	-	51 x 36 x 36
Weight (kg)		9	11
Noise level [dB(A)]	without housing	44	57
	with housing	-	47
Separation rate (%)		> 95	> 95
Volume of collecting container (cm³)		Approx. 180	600
Quality mark (DIBt*)		Z-64.1-20	Z-64.1-22

\*German Institute of Building Technology

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DENTAL**  
THE BEST, BY DESIGN