



CAD/CAM SYSTEMS | INSTRUMENTS | **HYGIENE SYSTEMS** | TREATMENT CENTERS | IMAGING SYSTEMS

DAC UNIVERSAL – CLEANS, LUBRICATES AND STERILIZES INTERNALLY ROTATING INSTRUMENTS

Rapid and safe.

The Dental Company

sirona.

Cleaner handpieces and turbines.

Get cleaner handpieces and turbines with the DAC UNIVERSAL combination autoclave and save time in the clinic. Cleaning instruments before sterilizing them is essential for successful sterilization. The DAC UNIVERSAL is able to clean the internal channels of the handpieces, contra angles and turbines. During the external wash the instruments are washed twice with cold water (pulse wash) and once with hot water.

This process removes biofilm and dirt faster and more effectively. It is normally very difficult to clean the channels manually. The DAC UNIVERSAL is able to thoroughly clean the instruments both internally and externally, thereby ensuring that they are optimally prepared for sterilization. Tests

have shown that the number of repairs to handpieces, contra angles and turbines is reduced as a result of the fact that dirt is removed from the internal channels in the instruments and thanks to the extremely thorough and consistent maintenance of the instruments. This extends the lifetime of the handpieces, contra angles and turbines. The absence of dirt in the internal channels reduces the amount of repair work resulting from damage caused by dirt inside the instruments. **Enjoy every day. With Sirona.**



BACK IN ACTION QUICKLY

Cleans, lubricates and sterilizes in approx. 12 minutes.

Save time in the clinic

Using the DAC UNIVERSAL reduces the time spent cleaning and lubricating the handpieces, contra angles and turbines manually. Moreover, as the DAC UNIVERSAL is a highly efficient autoclave that ensures a fast process, thereby reducing the time spent on cleaning, maintenance and sterilization procedures in the clinic.

Lubrication

Lubrication is fully automatic using the amount of oil recommended by the manufacturer. When the accessory basket for small dental instruments is used, the oiling process can be manually deactivated.

Sterilization

The DAC UNIVERSAL has four sterilization processes which the user can choose between. The four programmes are:

- 134 °C, 3-minute sterilization
- 134 °C, 18-minute sterilization
- 121 °C, 15-minute sterilization
- 134 °C, wrapped sterilization

The basic principle behind each sterilization process in the DAC UNIVERSAL autoclave is the use of a back-flush mechanism. The back-flush ensures that the saturated steam is forced through the instruments, thereby sterilizing the internal channels as well as the external parts of the handpieces and turbines.

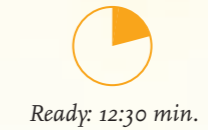
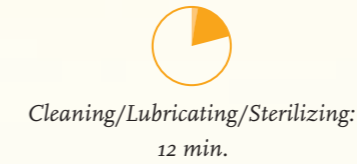
HYGIENIC AND EFFICIENT

A minimum of effort giving maximum timesaving.

Instead of countless single manual cleaning, expensive lubrication and time-consuming sterilization, simply load your instruments into the combination-autoclave and take them out cleaned, lubricated and sterilized. In comparison to the conventional handling of the instruments, the DAC Universal is clearly more effective and extremely

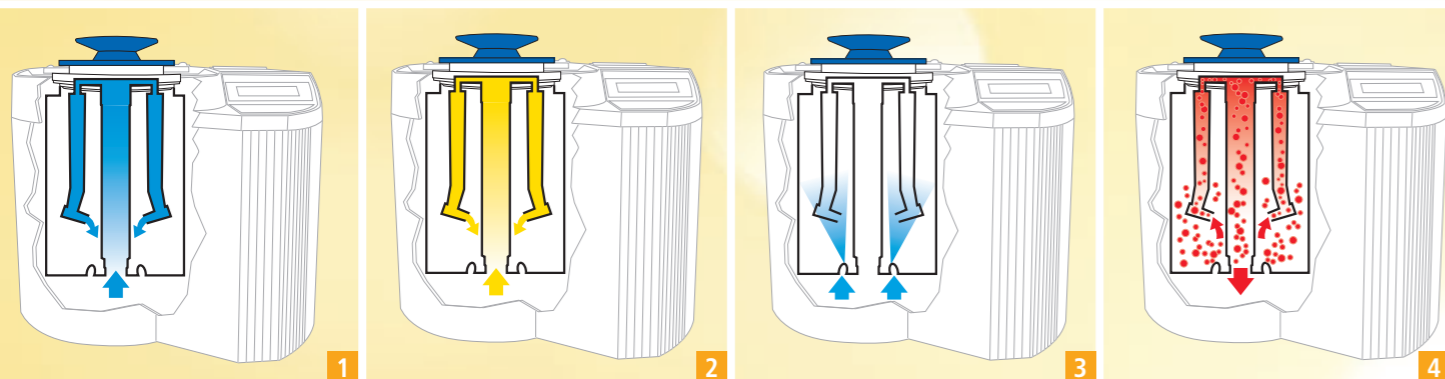
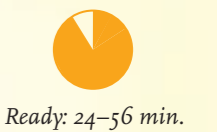
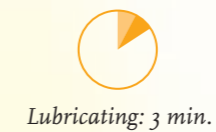
time-saving. But not only the total time consumption for hygiene care and maintenance of your instruments is lowered. As cleaning, lubrication and sterilizing is fully automated, the team at the clinic will also be able to concentrate on other tasks.

DAC UNIVERSAL



We recommend that instruments intended for storage or surgery are wrapped and resterilized.

Manual Handling



6 Instruments are cleaned, lubricated and sterilized

- 1** 0:00–0:30 Lid closes.
0:30–1:20 Leak test.
1:20–2:15 Internal cold cleaning.

- 2** 2:15–2:30 Lubrication.
2:30–5:00 External cold cleaning.

- 3** 5:00–5:30 External hot cleaning.
5:30–6:25 Heating procedure to 134 °C.

- 4** 6:25–7:35 “Back-Flush.” The steam is forced through the open instruments via the valves.

- 7:35–10:35 Sterilization.
10:35–11:10 “Back-Flush.” The steam is forced through the open instruments via the valves.

- 11:10–11:35 Drying.
11:35–11:50 Lid opens a little bit.
11:50–12:00 Lid opens after pressing C.

PROPER HYGIENE FOR ALL TYPES OF INSTRUMENTS

The extraordinary is our standard.

The versatility of the DAC UNIVERSAL ensures that you will have both wrapped, unwrapped and solid instruments back in action quickly.

Unwrapped instruments

The three standard programs of the DAC UNIVERSAL provide you with up to six thoroughly cleaned, lubricated and sterilized hand pieces or turbines in a record time. These instruments are then ready for immediate use.

Wrapped instruments

With the DAC UNIVERSAL you can also sterilize wrapped instruments. Up to three wrapped instruments will be sterilized in a quick cycle which should be run after and in addition to one of the DAC UNIVERSAL standard programs. This wrapped cycle will enable you to have your wrapped instruments sterilized and back in action very quickly. The wrapped instruments can also be used for surgery or stored for later use.

Solid instruments

With the additional basket for the DAC UNIVERSAL solid instruments are cleaned and sterilized quickly – without any manual handling. This eliminates the risk of human errors and protects the clinic staff from possible injuries from cuts, etc.

STERILIZE SAFELY

Unique design, quality and versatility.

Unique design and quality are essential for the production which is certified according to the ISO 9001:2000 and ISO 13485:2003 standards by Lloyd's Register Quality Assurance. The HygCen Centrum GmbH has tested the performance of the DAC UNIVERSAL combination autoclave according to the European standard EN 13060 as a class S type certificated for sterilization of handpieces and contra angles. The DAC UNIVERSAL carries the CE mark. The DAC UNIVERSAL is a low-noise autoclave.

Safety

User safety is a primary concern for Sirona Dental Systems. The DAC UNIVERSAL combination autoclave features a safety ring that prevents the user's fingers from being caught between the chamber and the lid. In addition, it must be stressed that the lubrication process is carried out in a closed system. This prevents the release of oil fumes into the clinic during the lubrication process. A built-in water conduct-

ivity sensor measures the water quality and activates an alarm if the water quality in the tank deteriorates. Servicing the DAC UNIVERSAL combination autoclave is extremely straightforward, making it easier, faster and cheaper to service the machine.

Reports

It is possible to connect a printer or data logger (accessories) to the DAC UNIVERSAL. Connecting either of these to the DAC UNIVERSAL will produce a transcript of the latest sterilization cycle. The information from this transcript includes time, temperature, pressure and the serial number of the DAC UNIVERSAL, and a conclusion on the sterilization cycle – whether it was successful or unsuccessful.




Specifications	DAC UNIVERSAL
Voltage	The DAC UNIVERSAL is a multiple-voltage machine, which means that it can operate at any voltage level between 90–240 V, 50/60 Hz
Power consumption	1.1 kW
Water quality	Demineralised or distilled water (< 3 µS)
Water tank capacity	2.0 l
Oil tank capacity	0.2 l
Height open	60 cm
Height closed	35 cm
Width	36 cm
Depth	37 cm
Installation	The following installations are necessary: Pressurized air (there is a pressure regulator built into the machine)

The instruments are lubricated in a closed system which prevents the release of oil fumes into the clinic during the lubrication process.



PERSONAL EXPERIENCES


DAC UNIVERSAL recommended around the world.

 Aabyhoej, Denmark

Dentist Ole Steffensen

"The DAC is an extremely effective autoclave, which can handle the complete process for turbines and contra angles between each patient due to the short cycle time."




 Madrid, Spain

Dentist Fernando Luengo

"Since we bought the DAC in April of 2004 we have experienced a much longer lifespan of our instruments, which has led to great money saving in repairs. Furthermore the DAC has saved us time with the 'all in one procedure' and we find it one of the best acquisitions made."




 Passau, Germany

Dr. med. dent. Rolf Linseisen

"The DAC Universal plays a fundamental part in securing optimal hygiene procedures in our modern clinic and at the same time it ensures total process safety."




 Guernsey, Great Britain

Dentist Gareth Wallis

"We bought a DAC Universal in August 2005 and instantly felt that it is very easy to use. We especially appreciate that the assistants now have more time left to help the dentists and for other tasks."



 Béziers, France

Dentist Dr. Christian Bodart

"The saving of time enables us to release the assistant for other tasks helping at the chair or administrative tasks. My associate and I, we are sure that we have made the best choice for our dental office."




 Greenhills, Australia

Pacific Smiles Dental

"Pacific Smiles Dental believes that the implementation of the DAC has been a positive addition to our existing high standards of infection control. The DAC is an exceptionally efficient and user-friendly device. The staff of Pacific Smiles Dental Greenhills now wonders how they ever survived without the DAC!"




 Hamburg, Germany

Dr. med. dent. Axel Posorski

"Now we are not only saving time by having a machine, which can handle all three processes in one, we also get a better result and more time with the patients."



 Brescia, Italy

Dottori Bazzoli, Mainetti e Treccani

"Not only have the employees benefited from the DAC Universal but also the patients, as the assistants have got more time for the patients at their disposal."



WATER TREATMENT SYSTEM

NITRADEM DIRECT CONNECT

Direct Connection

NitraDem Direct Connect provides high quality demineralised water directly to your DAC UNIVERSAL and any other autoclave. This highly efficient water treatment system is fully automated and furthermore conforms to the European Norm EN1717, which allows the direct connection between water system and autoclave. The capacity of the NitraDem Direct Connect is so large that it can supply up to three autoclaves at the same time. NitraDem Direct Connect also gives you the possibility to tap demineralised water if needed.

Constant monitoring

To ensure the best working conditions for your DAC UNIVERSAL and other autoclaves, NitraDem Direct Connect constantly monitors the quality of the demineralised water. This constant flow of demineralised water with a minimum microsiemens level prolongs the lifespan of your autoclaves and lowers their repair costs.

Easy handling

With the NitraDem Direct Connect you no longer have to worry about the handling of heavy water bottles. Moreover, the extremely easy handling of the water treatment system means that you can focus on other important tasks in the busy day-to-day activities in the clinic. The NitraDem Filter demineralises water using an ion exchange system and the filter itself is very easy and quick to change.

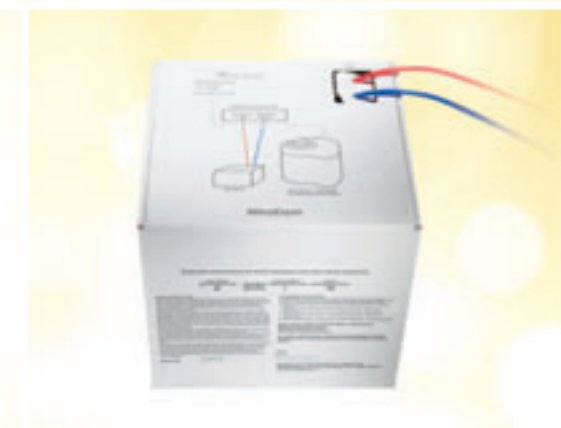


Control Panel: REF 6259068

Water pistol: REF 6259084

Installations kit: REF 6259076

NitraDem filter: REF 6198431





REF 6051739
Extra lid without adapters



REF 6259109
Holder for Lid



REF 6126200
Complete basket
For cleaning and sterilization of solid products.



REF 6196377
Replacement basket

REF 6123827
Basket for small parts



REF 6078583
Filter, 6 pcs.

REF 6053842
Cleaning tabs, 100 pcs.

REF 5892059
Chemical indicators, 100 pcs.



REF 6051820
Spore tester
To be used for validating the DAC UNIVERSAL combination autoclave.
Place the biological or chemical indicator inside the tester. Close the spore-tester and place it on the E-type click adapter for handpieces (REF 6051648).



REF 6051788
Holder for indicator
To be used for validating the DAC UNIVERSAL autoclave.
Place the biological indicator and/or the chemical indicator in the clip and place the clip on the lid.



REF 6051770 – Printer
Printer for the DAC UNIVERSAL.



REF 6051705
Sirona TE adapter
Handpiece adapter for TE & T1 classic instruments.
To load: Gently click the handpiece onto the adapter without the use of force.
To unload: Pull the handpiece off the adapter.



REF 6051648
Intramatic adapter
E-type adapter for handpieces.
To load: Click the handpiece onto the adapter.
To unload: Push the small button on the adapter and remove the instrument.



REF 6051663
Adapter for Kavo handpiece heads
To load: Place the Kavo head in the adapter hole and press down.
To unload: Pull the Kavo head off the adapter.



REF 6259092
Lid & Steril-Filter for wrapped instruments
For wrapped instruments – from serial number 104000.



REF 6051697
Sirona turbine adapter
To load: Click the turbine onto the adapter.
To unload: Pull off the turbine.



REF 6051655
Kavo turbine adapter
To load: Click the turbine onto the adapter.
To unload: Pull off the turbine.



REF 6051671
W&H turbine adapter
To load: Click the turbine onto the adapter.
To unload: Pull off the turbine.



REF 6051689
W&H turbine adapter
For TA-98LW/96LW high-speed instruments only!
To load: Click the turbine onto the adapter.
To unload: Pull off the turbine.



REF 6051713
Bien Air turbine adapter
To load: Click the turbine onto the adapter.
To unload: Push the small button on the adapter and remove the instrument.



REF 6051762
Castellini turbine adapter
To load: Click the turbine onto the adapter.
To unload: Pull off the turbine.



REF 6051804
NSK Phateleus adapter
To load: Click the instrument onto the adapter.
To unload: Pull off the instrument.



REF 6051812
NSK Pana QD adapter
To load: Click the turbine onto the adapter.
To unload: Pull off the turbine.



REF 6086628
NITRAM OIL
200 ml (white), 6 pcs.
Lubrication for use in the DAC UNIVERSAL with serial No. <103 999

REF 6259118
NITRAM OIL #2
200 ml (blue), 6 pcs.
Lubrication for use in the DAC UNIVERSAL with serial No. ≥104 000



REF 6051846
Midwest adapter for quick connect (4, 5, 6 holes)
To load: Align the instrument to fit the holes and press down.
To unload: Press the ring and pull off the instrument.



REF 6051853
Midwest adapter for fixed back-end (4, 5, 6 holes)
To load: Align the Midwest instrument on the adapter to fit the holes, then turn and fasten the threaded part on the adapter.
To unload: Turn and loosen the threaded part of the adapter and remove the instrument.



REF 6051879
Midwest XGT/Stylus turbine adapter
To load: Click the turbine onto the adapter.
To unload: Push the small button on the adapter and remove the instrument.



REF 6051887
Star swivel adapter
To load: Turn the basic plate of the adapter to the right and click the turbine onto the adapter.
To unload: Turn the basic plate of the adapter to the right and pull the turbine off the adapter.



REF 6051895
Adapter for Star attachment
To load/unload: Place/remove the coupling the same way that the coupling is normally placed/removed on the Star motor.



REF 6051911
Adapter for Morita turbines (PAR-DI)
To attach: snap the turbine into the adapter.
To detach: Press the small button on the adapter and detach the instrument.



REF 6051929
Morita (PAR-O) turbine adapter
To load: press the turbine onto the adapter.
To unload: Push the small button on the adapter and remove the instrument.



REF 6051937
Adapter for Yoshida turbines
To attach: Press the button and snap the turbine into the adapter.
To detach: Press the button on the adapter and detach the turbine.



REF 6085745
OSADA OFJ-MZL
To attach: Snap the turbine into the adapter.
To detach: Press the bottom plate on the adapter and detach the turbine.



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SIRONA – UNIQUE WORLDWIDE SYSTEMS EXPERTISE IN DENTAL EQUIPMENT PRODUCTS

Sirona develops and manufactures a comprehensive range of dental equipment, including CAD/CAM Systems for dental practices (CEREC) and laboratories (inLab), Instruments and Hygiene Systems, Treatment Centers and Imaging Systems. Sirona manufactures high technology products that guarantee ease of use and a high return on investment – for the good of your practice and for the benefit of your patients. In this way, you can approach every challenge you face with confidence. **Enjoy every day. With Sirona.**

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