

DAC UNIVERSAL

SAFE. CLEAN. RAPID.



THE HYGIENE FORMULA FOR CLEAN INSTRUMENTS.

Hygiene is becoming more important each day, although it should not be too much of an effort in your daily practice. Our hygiene formula is: Safe. Clean. Rapid. DAC UNIVERSAL cleans, lubricates and sterilizes 6 instruments – fully automatic at the touch of a button. Wrapped and solid instruments can also be sterilized in next to no time and are therefore quickly back in action. Save yourself time-consuming manual preparation and protect yourself and your patients reliably. **Enjoy every day. With Sirona.**

WANT TO ELIMINATE HYGIENE RISKS? THEN ACTIVATE DAC UNIVERSAL!

Comply with hygiene standards with just the touch of a button and avoid cross contamination: Be safe with DAC UNIVERSAL! Your patients and staff can rely on this all-round protection and put their complete trust in the treatment with the prepared and sterilized instruments.



LEGAL SAFETY

By using DAC UNIVERSAL, you fulfill the best practice requirements from the Health Technical Memorandum 01-05: "Decontamination in primary care dental practices" issued by the Department of Health (2009) "for UK and other requirements of many countries."

CONFORMITY WITH STANDARDS

DAC UNIVERSAL is specially certified for the decontamination of turbines, handpieces and contra angles according to the European standard EN 13060 for class S small sterilizers. The cleaning effect of the DAC UNIVERSAL is also compliant with the standard in accordance with ISO 15883:5.

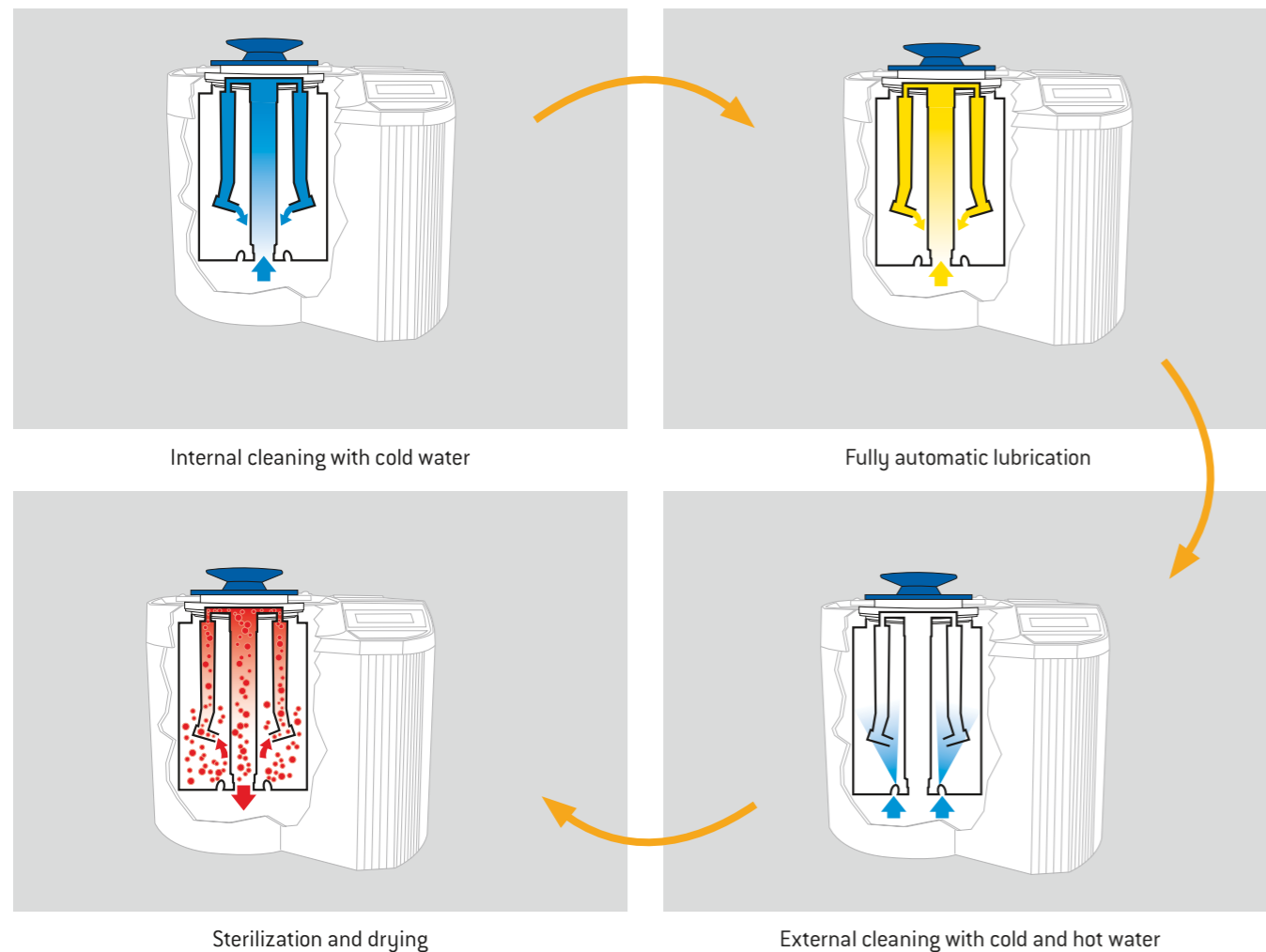
VALIDATION

For first validation, Sirona provides a works test of DAC UNIVERSAL by means of an alternative reference loading. The two-year maintenance of your DAC UNIVERSAL can be implemented cost-effectively and simultaneously with revalidation.

CLEAN, LUBRICATE AND STERILIZE.

The touch of a button is all that is required for the special lid to close and for DAC UNIVERSAL to begin its decontamination program. Your instruments are then fully automatically and completely reliably decontaminated.

INSTRUMENT DECONTAMINATION IN JUST ONE CYCLE



All hygiene-relevant steps for preparing your instruments, such as cleaning, lubricating and sterilizing are carried out in one closed, hygienic cycle. This is how easy it is to eliminate sources of errors and obtain clean end results.

EQUIPMENT OPTIONS



UNWRAPPED INSTRUMENTS

For cleaning, care and sterilization of unwrapped handpieces, plug up to six instruments on the corresponding special adapters.



WRAPPED INSTRUMENTS

Individually connect up to three wrapped instruments with a spring clip. Before they are sterilized, the instruments have to run the complete cycle for unwrapped instruments and then be wrapped.



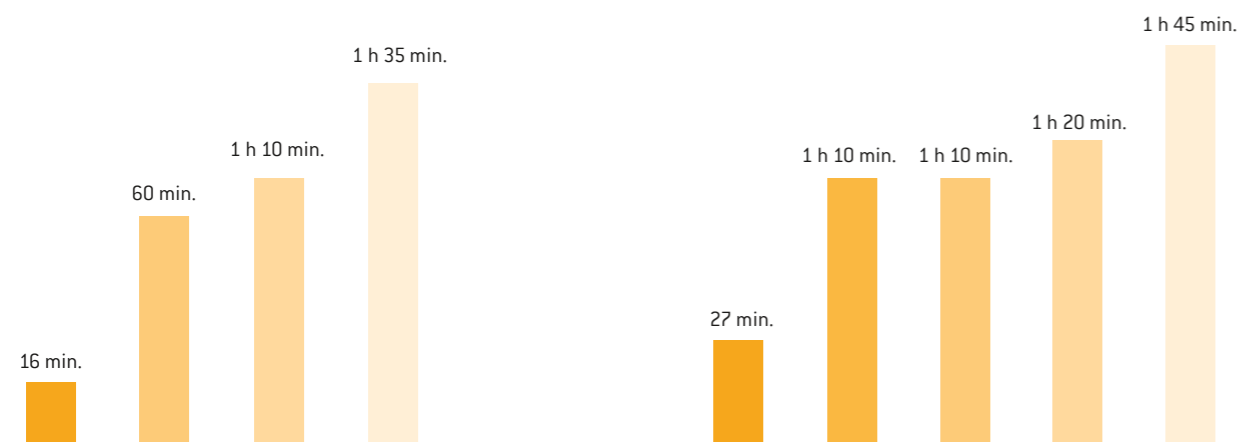
SOLID INSTRUMENTS

Place up to five solid instruments (e.g., probes, mirrors and curettes) into the wire basket provided. Rotating instruments such as burs, files and polishers are to be placed in the wire basket for small parts.

MAXIMUM TIME SAVINGS AND COST EFFICIENCY.

Lighten the load of your practice team and reduce your labor costs: Proper care of your rotating instruments helps extend their service lives and you can prepare your instruments between patients without major time loss.

SAVE TIME: EFFECTIVE TIME SAVINGS WITH DAC UNIVERSAL



EXAMPLE 1:

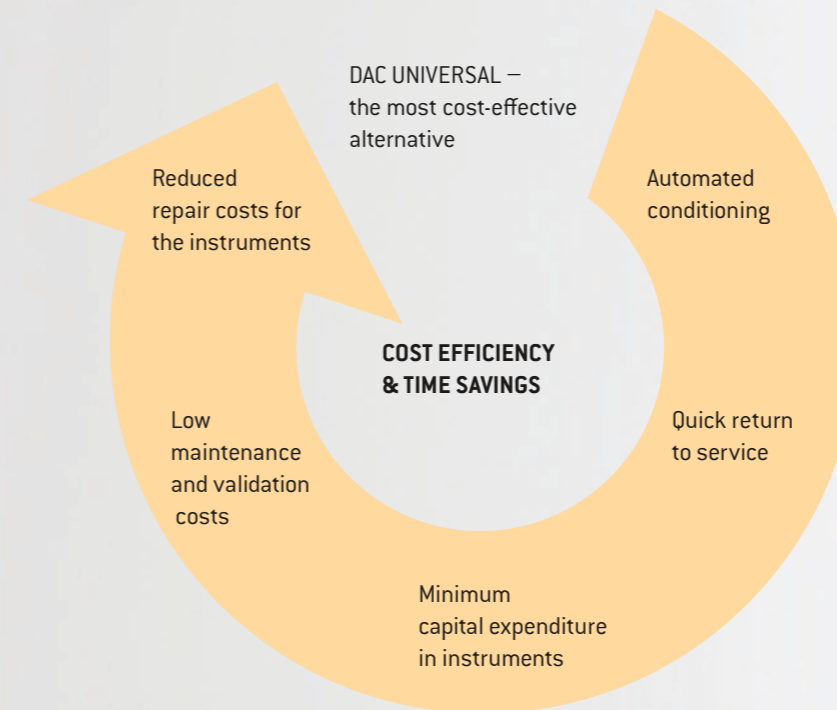
Decontamination time for 4-6 instruments for immediate use.

- DAC UNIVERSAL – Cleans, lubricates, sterilizes: 16 min.
- Semiautomatic cleaning and care unit with subsequent sterilization: approx. 60 min.
- Manual decontamination and sterilization: approx. 1 h 10 min.
- Washer disinfectant with subsequent manual lubrication and sterilization: approx. 1 h 35 min.

EXAMPLE 2:

Conditioning time for 4-6 instruments for storage.

- DAC UNIVERSAL – Cleans, lubricates, sterilizes, subsequent manual packaging: approx. 27 min.
- „(for storage up to 21 days according to HTM 01-05)“.
- DAC UNIVERSAL – Cleans, lubricates, sterilizes, subsequent manual packaging and sterilization: approx. 1 h 10 min.
- Semiautomatic cleaning and care unit with subsequent manual packaging and sterilization: approx. 1 h 10 min.
- Manual decontamination, manual packaging and sterilization: approx. 1 h 20 min.
- Washer disinfection unit with subsequent manual lubrication, packaging and sterilization: approx. 1 h 45 min.



Save costs:

Enormous cost reductions with DAC UNIVERSAL

For each instrument, the consumption costs of DAC UNIVERSAL are two to three times lower than with comparable automated decontamination methods. In contrast to manual conditioning methods, the consumption costs are even four to five times lower. There are minor costs for demineralized water, consumables and energy per cycle.

Protection and preservation of your instruments

Proper care of your rotating instruments helps extend their service lives. The DAC Universal lubrication system has been tested and approved by leading international manufacturers of straight and contra-angle handpieces and turbines.



DEMINERALIZED WATER FROM A SAFE SOURCE.

WATER PURIFICATION:

Water Pistol



PROFESSIONAL WATER SUPPLY:

NitraDem Direct Connect

NitraDem Direct Connect quickly, easily and permanently provides your hygiene systems with demineralized water. The direct water connection saves you from having to manually fill the water tank. This highly efficient water treatment system works fully automatically, is easy to operate and supplies up to three hygiene systems with purified water.

Our water treatment systems provide demineralized purified water for your DAC UNIVERSAL and other autoclaves: NitraDem Direct Connect and SIRODEM cost-effectively supply your hygiene systems with the highest quality demineralized purified water. As a result, you protect your hygiene systems and instruments, extend their service life and reduce your repair costs.



QUICK, EASY AND PERMANENT WATER SUPPLY FOR YOUR HYGIENE SYSTEMS: NitraDem Direct Connect

- Corresponds to the „Free Outlet“ defined in the European standard EN 1717 that allows a direct connection between the water supply and autoclaves.
- In the event of a drop in pressure in the water supply, contamination of the public drinking water supply is excluded.
- An LED display indicates the current status of the filter and the optimum time for filter replacement.



FULLY DEMINERALIZED WATER IN SECONDS: SIRODEM

The mixed-bed desalinators SIRODEM is ideally suited for the simple and cost-effective generation of purified, fully demineralized water. This unpressurized system can be attached wherever fully demineralized water is required in seconds and at an excellent quality.

- Specially designed for the individual needs of your dental practice.
- The conductivity meter is directly attached to the cartridge and displays the purity level of the water.
- A constantly high quality of water is guaranteed.

Connection diagram for NitraDem Direct Connect:

NitraDem Direct Connect has three water outlets that dispense the demineralized water at a pressure of 5–6 bar. Water outlets **1** and **2** are used to connect hygiene systems without a water suction pump. At outlet **3** a hygiene system can be optionally connected with or without a water suction pump.




DAC UNIVERSAL, NitraDem Direct Connect AND SIRODEM TECHNICAL DATA, ORDER INFORMATION AND ACCESSORIES.

Technical data	DAC UNIVERSAL
Installation prerequisites	
Voltage	90-120V AC / 190-240V AC, 50 / 60 Hz
Power consumption	1,1 kW
Compressed air connection	Input pressure: 5,0–8,0 bar; max. Short-term air consumption: approx. 60 NI / min at 5 bar
Oil tank capacity	0,2 l
Water tank capacity	2,0 l
Water consumption	Approx. 600 ml per cycle
Water quality	< 3 µS
Height open / Height closed x Width x Depth	53 cm / 35 cm x 38 cm x 37 cm
Equipment: unwrapped / wrapped / solid	6 / 3 / 5 instruments
Weight	23 kg
Minimum distance from wall / ceiling	10 cm / 70 cm

Documentation	
RS 232 connections	Printer, documentation software, USB adapter, memory sticks, memory cards, etc.
Printout	Selected sterilization program, date, time, batch number, vacuum, pressure, temperature, serial number, deviation, etc.

Sterilization program	
Selection options	<p>Standard program 134°C, 3 min. sterilization Total cycle: approx. 16 min.</p> <p>Standard prion program 134°C, 18 min. sterilization Total cycle: approx. 32 min.</p> <p>Standard care program 121°C, 15 min. sterilization Total cycle: approx. 28 min.</p> <p>Program for wrapped instruments* 134°C, approx. 3 min. sterilization Total cycle: approx. 22 min.</p> <p>* Lid required for wrapped instruments</p> <p>Cycle times may vary depending on the working environment in which the autoclave is operated.</p>






Technical data	NitraDem Direct Connect	SIRODEM
Throughput [l/h]	40	50
Purified water quality [µS/cm]	0,1–10	0,1–20
Electrical connection	100V–240V; 50–60 Hz	110V AC / 230V AC, 50–60 Hz
Panel dimensions [cm]	26,5 x 32 x 12 (H x W x D)	60 x 10 (H x d)
Filter dimensions [cm]	28,5 x 29,5 x 28,5 (H x W x D)	43,5 x 10 (H x d)
Weight [kg]	6,3	Approx. 3
Capacity / 10° dH / [Liter]	430	425
EN-1217 compliant	Yes	No
Fixed connection	Yes	No
Special features	Free water inlet	–
Water pressure from control panel	5–6 bar	–

DAC UNIVERSAL	REF.
 Equipped with: Standard lid without adapter 1 can of Nitram oil care concentrate Indicator holder Air filter	64 32 038 (DE) 64 32 038 (World)
 Installation kit, Syphon Including: – Syphon with direct connection – Regulator – Waterfilter – Holder for air filter – Filter for Filterhousing (6 pcs.) – Nitraclean tablets (100 pcs.) – Chemical indicators (100 pcs.)	64 33 267
 Installations-Kit, Drain tank Including: – Drain tank – Regulator – Waterfilter – Holder for air filter – Filter for Filterhousing (6 pcs.) – Nitraclean tablets (100 pcs.) – Chemical indicators (100 pcs.)	64 33 275

Adapter for straight and contra-angle handpieces	REF.
Sirona TE / Classic adapter	60 51 705
INTRAmatic® adapter	60 51 648
KaVo / BienAir head adapter	60 51 663
Midwest adapter for Rhino / Shorty	60 51 903

Adapter for turbines	REF.
Sirona turbine adapter	60 51 697
KaVo turbine adapter	60 51 655
W&H turbine adapter	60 51 671
W&H turbine adapter (TA-98LW / 96LW)	60 51 689
BienAir turbine adapter	60 51 713
NSK Phateleus adapter	60 51 804
NSK VIP II / Pana QD adapter	60 51 812
Borden adapter, 2–3 holes	60 51 861
Castellini turbine adapter	60 51 762
Lares turbine adapter	60 51 838
Micro-Mega turbine adapter	60 51 945
Midwest adapter	60 51 853
Midwest Q Coupler adapter	60 51 846
Morita PAR DI turbine adapter	60 51 911
Morita PAR O turbine adapter	60 51 929
OSADA OFJ – MZL-Turbinenadapter	60 85 745
OSADA G1 turbine adapter	63 08 360
STAR attachment adapter	60 51 895
STAR swivel adapter for Star motor	60 51 887
Yoshida turbine adapter	60 51 937

DAC UNIVERSAL accessories	REF.
 NITRAM oil care concentrate (white) for series Nos 100 000 – 103 999 and 200 000 – 201 999	60 86 628
 NITRAM oil care concentrate (blue) for DAC UNIVERSAL with Wrapped Ready for series Nos 104 000 – 199 999 and 220 000 – 399 999	62 59 118
 Cleaning tabs	60 53 842
 Filter	60 78 583
 Chemical indicator	58 92 059
 Spore tester	60 51 820
 Indicator holder	60 51 788
 Standard lid without adapter	60 51 739
 Lid for Wrapped Ready with sterile filter	62 59 092
 Basket with lid	61 26 200
 Wire basket for small parts	61 23 827
 Replacement basket (without lid)	61 96 377
 Lid holder	62 59 109
 Drain tank with hose Siphon with direct connection	60 78 526 61 26 341
 Printer for DAC UNIVERSAL Printing paper	60 51 770 61 23 462

Water conditioning system	REF.
 NitraDem Direct Connect, incl. installation kit, NitraDem filter, control panel	62 59 852
 NitraDem filter	61 98 431
 Water pistol for NitraDem Direct Connect	62 59 084
 SIRODEM 220 V SIRODEM 110 V	58 86 168 59 48 554
 Cartridges for SIRODEM	58 92 026

ALWAYS AT THE FOREFRONT OF INNOVATION!

As global innovation leader for dental equipment, we continuously invest in research and thus in the future of modern dentistry. By networking digital technologies with integrated solutions and optimizing the treatment workflow, we create improved treatment results, more comfort and safety for the patient as well as time and cost savings in everyday work. The combination of constant innovative power and globally growing sales and service structures makes Sirona the global market leader trusted by thousands of practices and labs around the world. **Enjoy every day. With Sirona.**



CAD/CAM systems

From pioneer to new standard. For almost 30 years we have been developing digital dentistry and creating new possibilities for the future practice and lab.



Imaging systems

Best image quality with the lowest dose. More than 100 years of developing x-rays for the dental practice make us the number 1 innovation partner.



Treatment centers

The business card of modern practices. We are striving to create the ideal ergonomic and innovative center. Individually tailored to the well-being and demands of the patient and dentist.



Instruments

Advantages that speak for themselves. We make sure that we provide the right balance of proven quality, individual ergonomics and innovative technology for user-friendly work.



Hygiene systems

Competence that gives you safety. When it comes to hygiene in the practice, we do not take any shortcuts.