

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.

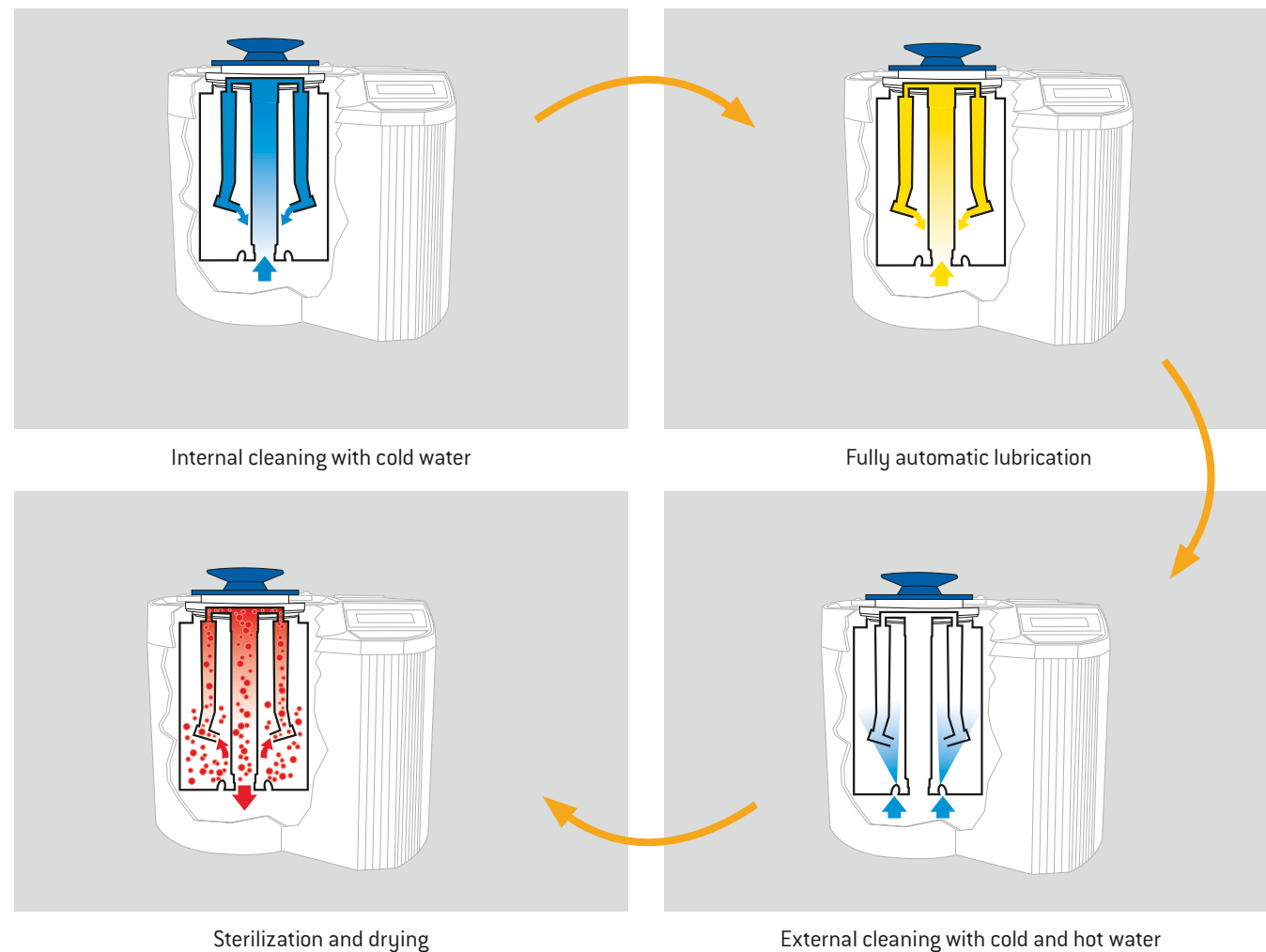
VALIDATION

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.



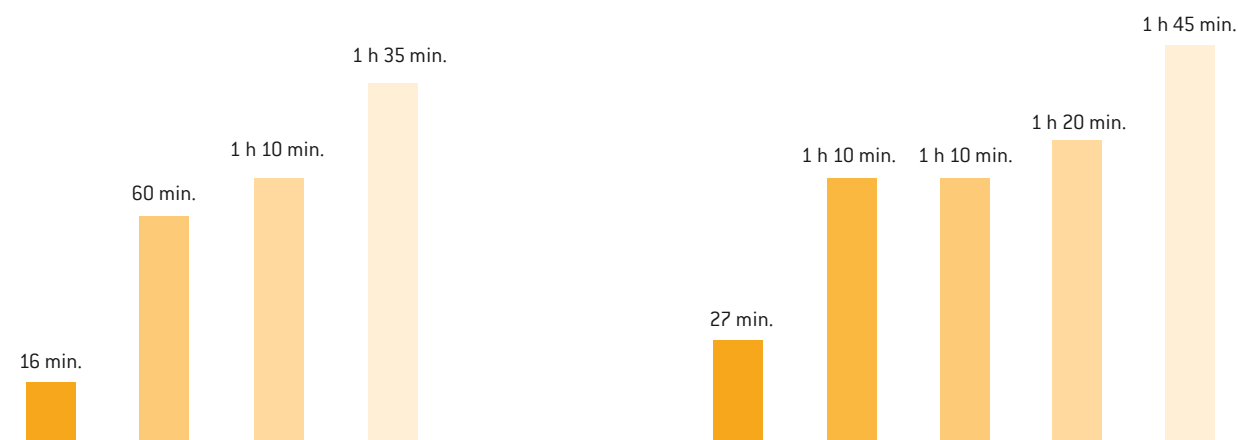
SOLID INSTRUMENTS

Place up to five solid instruments (e.g., probes, mirrors and curettes) into the wire basket provided. Rotating instruments such as burrs, 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:

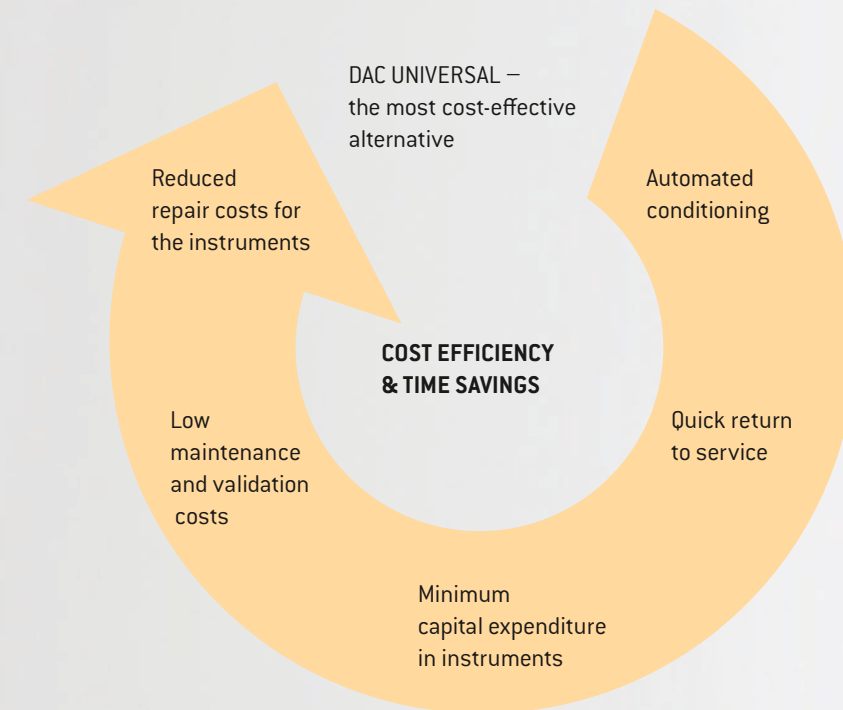
Decontamination time for 4-6 instruments for immediate use.

- 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 disinfection unit 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.

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.

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.

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

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

		NitraDem Direct Connect	SIRODEM
Technical data			
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	–

		REF.
DAC UNIVERSAL		
	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

		REF.
Adapter for straight and contra-angle handpieces		
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

		REF.
Adapter for turbines		
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

		REF.
DAC UNIVERSAL accessories		
	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

		REF.
Water conditioning system		
	NitraDem Direct Connect, incl. installation kit, NitraDem fi lter, 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.

The Dental Company

sirona.