

System solutions for vets and animal hospitals

Reliable and safe instrument processing



A reliable and economical assistant

Man's best friend

Pets mean a lot to families and when they are not well we want to know that they are getting the very best treatment. Surgical instruments need to be processed to the same standards as those used in human surgery to ensure infection cannot be spread.

Miele's washer-disinfectors offer the safest solution to vets and animal hospitals.

Machine processing offers maximum safety and is the most economical way of processing surgical instruments without the risk of cross-infection. Miele washer-disinfectors offer the following advantages for machine instrument processing:

- Maximum economy, lower running costs per batch than with manual cleaning and disinfecting processes
- Optimum care of materials ensuring instruments do not deteriorate
- Thorough cleaning results with consistently high standards of hygiene
- Hollow instruments are thoroughly cleaned using injector jets (e.g. MIS instruments)
- Safest way to process instruments and optimum preparation for reliable sterilisation
- Minimum risk of injury and infection for the practice team with minimum handling required of contaminated instruments
- Minimum risk of work related injuries and sickness, no skin contact with chemical disinfecting agents
- Efficient use of personnel with more time for looking after patients and their owners.

Machine processing is an important part of quality assurance in the animal clinic and you want the same standards set in human medicine for your animals.

The VARIO TD programme has become the standard for the routine cleaning and disinfection of instruments which provides reliable removal of protein soiling (blood, secretions). Thermal disinfection takes place at >90°C with a temperature holding time of 5 minutes. To ensure optimum care of instruments the final rinse should preferably take place using fully demineralised water and without rinsing agent. For thermally stable anaesthetic instruments there is the option of using the VARIO TD-AN programme which has modified parameters.

- Intensive cleaning in temperatures that do not cause denaturation
- Disinfection according to EN ISO 15883
- Excellent material care

Standard on all Miele washer-disinfectors.



Reliable results using professional procedures Typically Miele



The systematic cleaning, disinfection and sterilisation of instruments in veterinary practices is a pre-requisite for protecting the health of both people and animals.

Protecting patients, users and third parties

Processing instruments in the Miele washer-disinfector cleans and disinfects instruments in a closed system. With its fungicidal, bactericidal and virus-deactivating properties, thermal disinfection achieves the highest possible level of protection against the risk of infection. And it is for this reason that renowned institutes such as the Robert Koch Institute recommend machine processing in preference to manual processing of instruments in human medicine. It is only by using this process that the most essential criteria for professional instrument processing in veterinary surgeries are also fulfilled: safe and economical.

Conforming to the Medical Devices Directive

Miele is the innovative market leader when it comes to the processing of instruments in surgeries and clinics. Miele's washer-disinfectors ensure reproducible cleaning results and thermal disinfection in compliance with the provisions of international standard EN ISO 15883. The development and production of these machines are incorporated into Miele's Quality Assurance Scheme, which in turn is in full compliance with DIN EN ISO 13485. These machines are certified as Class 2a medical products in accordance with 93/42/EWG, and carry the CE 0366 mark.

Everything you need

Miele offers everything you need for safe instrument processing in vets surgeries and animal hospitals. Every washer-disinfector is installed and commissioned by a specialist service technician who has received intensive training as a medical product adviser, and who is able to explain the machine's operation and functions comprehensively.

The space saving solution for the smaller practice

G 7831



Only 45 cm wide with single phase connection: the ideal economic solution with standardised cleaning and disinfection results

G 7831

- Washer-disinfector for veterinary surgeries
- Free-standing or built-under
- Only 45cm wide;
Free-standing: H 850, W 450, D 600 mm;
Built-under: H 820, W 450, D 600 mm (without lid)
- MULTITRONIC NOVO med 45 electronic controls
- 5 cleaning and disinfecting programmes
- Serial interface RS 232 for process documentation
- Single phase connection with cable and moulded plug
- Load capacity: 1 DIN mesh tray or 4 small mesh trays (E 146)

For technical data see pages 12–14

Suggested baskets and inserts for a veterinary practice

Upper basket O 800 and mesh trays E 146 and Lower basket U 800/1 and mesh tray E 142.

Mesh trays E 142 and E 146 for scissors, clamps, tweezers etc.

The universal solution for vets and animal hospitals G 7882



Free-standing or built-under –
ideal for the economical and professional processing of all
your instruments

G 7882

- Washer-disinfector for veterinary surgeries
- Freestanding or built-under
- 60 cm wide
 - Free-standing: H 850, W 600, D 600 mm
 - Built-under: H 820, W 600, D 600 mm (without lid)
- MULTITRONIC NOVO PLUS electronic controls with 10 programmes
- Three-phase connection for short programme durations
- Integrated dispenser pump for precise dosing of liquid agents (Neutralising agent)
- Serial interface RS 232 for process documentation (depending on version)
- Load capacity: 4 DIN mesh trays

For technical data see pages 12–14

Suggested baskets and inserts for a veterinary practice

Mobile unit E 327 for up to 4 mesh trays (E 142) for a wide range of instruments.

NEW

The first 60 cm wide washer-disinfector with integrated hot air drying G 7892



Free-standing or built-under.
Only 60 cm wide: the Miele washer-disinfector with integrated drying.

G 7892

- Washer-disinfector with integrated hot air drying
- Free-standing or built-under
- Only 60cm wide
Free-standing: H 850, W 600, D 600 mm
Built-under: H 820, W 600, D 600 mm (without lid)
- MULTITRONIC NOVO PLUS electronic controls with 10 programmes
- Three-phase connection for short programme durations
- Integrated dispenser pump for precise dosing of liquid agents (Neutralising agent)
- Drying Plus: integrated hot air drying

Load capacity:

4 DIN trays or 1–2 MIS sets

For technical data see pages 12–14

Suggested baskets and inserts for a veterinary practice

MIS upper basket O 176 and Lower basket U 874/1.

The upper basket O 176 is ideal for processing MIS instruments. By using injector technology thorough internal and external cleaning is assured. Hollow instruments are secured to injector jets using special sleeves which are available as optional accessories (see page 8).

Upper basket O 176 also has a connection for a hot air drying unit to ensure that hollow instruments are dried thoroughly on the inside too. A special basket is also available for processing rigid fibre optic instruments safely.

The U 874/1 lower basket holds mesh trays (E 142). In addition to 2 mesh trays this basket can also take an E 457 insert for MIS instruments including hand pieces and shafts.

Upper baskets, lower baskets and mesh trays



O 800/1 Upper basket/carrier

For G 7831

- Open at the front
- For various inserts
- Clearance 200 mm
- Integrated spray arm
- H 270, W 381, D 475 mm



U 800 Lower basket/carrier

For G 7831

- Open at the front
- For various inserts
- Clearance when combined with upper basket:
 - 800/1 approx. 295 mm
 - 801/2 approx. 295 mm
- H 62, W 385, D 505 mm



E 430/1 Insert 1/3 mesh tray

For use in upper and lower basket

- 5 mm mesh spacing
- H 40, W 150, D 445 mm



E 146 Insert 1/6 mesh tray

For use in upper and lower basket

- Mesh spacing:
 - 3 mm on base
 - 1.7 mm on sides
 - 8 mm on lid
- 2 hinged handles
- H 55, W 150, D 225 mm



E 327 Mobile unit

For G 7882/G 7892

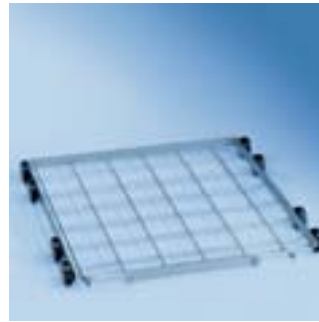
- For 4 DIN mesh trays on 2 levels
- Integrated spray arm
- Clearance from below:
 - Level 1: H 112, W 520, D 510 mm
 - Level 2: H 105, W 512, D 480 mm



E 142 Insert 1/2

For use in upper and lower basket

- DIN mesh tray
- 1 mm gauge wire
- 5 mm mesh spacing
- 5 mm frame all around
- 2 hinged handles
- Max. load 10 kg
- H 45/55, W 255, D 480 mm



U 874/1 Lower basket/carrier

For G 7882/G 7892

- Open at the front
- For various inserts
- Clearance when combined with upper basket:
 - 176 approx. 110 mm +/- 20 mm
- H 50, W 534, D 515 mm

Inserts and accessories for MIS instruments



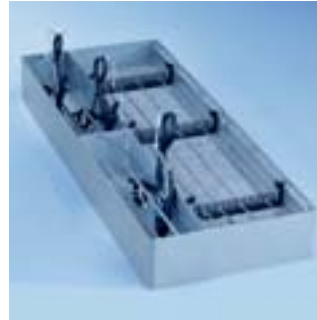
O 176 Upper basket/carrier TA For G 7892

- For MIS instruments
- Right side for hollow instruments, max. length 500 +/- 30 mm, Injector manifold for injector sleeves, e.g. E 442, E 443 or for silicone tubes E 448 (optional)
- Connection for hot air drying



E 450 injector unit TA For G 7892

- For MIS instruments, max. length 550 mm
- E 451 mesh tray for small items
- 2 levels
- Load capacity: up to 42 hollow instruments
- Connection for hot air drying unit
- Can be fitted with: E 451 mesh tray for small items
E 457 insert for separable MIS instruments
E 460 insert for rigid fibre optics
E 473 mesh for very small items
E 444 insert/spiral rack for fibre optics and suction tubes
- Clearance from below:
Level 1 = H 110, W 480, D 500 mm (For inserts, e.g. 2 x E 457)
- Level 2 = H 360, W 350, D 200 mm
- H 502, W 535, D 515 mm



E 457 Insert 1/2

- For separable MIS instruments (e.g. 12 hand pieces and shafts)
- 3 mm mesh spacing on the base, solid sides
- Welded holder for 8-12 hand pieces, internal space can be reorganised with 3 supports for 8-12 separable MIS instruments
- H 62, W 192, D 409 mm



E 460 Insert 1/2

- For rigid fibre optics of varying length
- Mesh spacing: Base 8 x 1 mm, Sides/lid 7 x 7 x 3 mm
- With 3 holders for 2 rigid fibre optics of varying length
- H 53, W 100, D 430 mm



E 473/1 Filter insert with lid

- Hangs inside baskets and mesh trays
- Filter insert with lid for very small items
- H 85, W 60, D 60 mm



E 442 injector sleeve

- For MIS instruments, 4-8 mm Ø, screw fit
- Length 121 mm, Ø 11 mm
- Cap, open end Ø 6 mm (M.-Nr. 4174960)
- Clip (M.-Nr. 4174850)

E 443 injector sleeve

- For MIS instruments, 8-8.5 mm Ø
- Length 121 mm, Ø 11 mm
- Cap, open end Ø 10 mm (M.-Nr. 4174970)
- Clip (M.-Nr. 4174850)



E 448 Silicone tube

- With Luer-lock adapter for internal cleaning
- Luer-lock adapter, male
- Length 300 mm, Ø 5 mm
- Injector jet, thread 8 x 1 mm

Other accessories available on request.

Accessories for water processing and dispensing systems



G 7895/1 Water softening system

- Cabinet for 2 x E 310/318 water softener cartridges with conductivity meter
- Generally recommended quality for final rinse is <math>< 15 \text{ microS/cm}</math>
- Unit with removable door
- Freestanding or built-under, choice of casing: white or stainless steel
- Electrical connection AC 230 V 50 Hz
- 2 pressure hoses, approx. 1.2 m long with 3/4" threaded connection: 1 x cold water, 2.5–10 bar incoming water pressure to container
- 1 x connection from container to machine (pressure loss approx. 1 bar for each container)
- External dimensions: H 850 (820)/W 300/D 600 mm

Illustration shows G 7895/1 (opened) with E 310 water softener cartridge (optional accessory)

Dimineralised water

To ensure the best treatment of your instruments Miele recommends the use of fully demineralised water for the final rinse. The quality of the water used for processing instruments can have a significant effect on the lifespan of instruments. Salts, which occur naturally in water can settle on instruments and cause deterioration. By using fully demineralised water, instruments get the protection they deserve.



LWM Module C conductivity monitor

- For water demineralisation cartridge E 310/E 318, H 118, W 235, D 110 mm, 0–20 $\mu\text{S/cm}$,
- Electrical connection: AC 230 V 50 Hz, supplied with 2 hoses 1.9 m long with 3/4" threaded connection.
- Conductivity levels up to approx.: 1.5 $\mu\text{S/cm}$ equates to tridistillate 2.5 $\mu\text{S/cm}$ equates to bidistillate 20.0 $\mu\text{S/cm}$ equates to monodistillate

E 313 wall mounted tap

- for manual supply of aqua purificata, pressure tested to 10 bar, complete with pressure hose 150 cm

E 314 free-standing tap

- for manual supply of aqua purificata, pressure tested to 10 bar, complete with pressure hose 150 cm



E 310 Water demineralisation cartridge/full

Pressurised stainless steel cartridge with priming and pressure release valve for 2.5–10 bar. Filled with 20 litres of homogenous reusable reactivation resin, \varnothing 240 mm, H 570 mm. The amount of water that can be reactivated in litres depends on the hardness level of the mains water supply and on the max. conductivity level required.

Conductivity levels

	5 $\mu\text{S/cm}$	10 $\mu\text{S/cm}$
5° dH	4,250 l	4,500 l
10° dH	2,125 l	2,250 l
15° dH	1,420 l	1,500 l
20° dH	1,070 l	1,125 l
25° dH	850 l	950 l
30° dH	710 l	750 l

Figures quoted are guidelines only.

E 318 Water demineralisation cartridge /empty

- Pressurised stainless steel cartridge with priming and pressure release valve for 2.5–10 bar. Takes 20 litres of single use resin E 315, \varnothing 240 mm, H 570 mm

E 315 Single use resin 20 l

- (2 x 10 l bags) vacuum sealed in plastic bags, filter bag for changing the resin included, for use in E 318

E 316 container

- Plastic barrel with lid and funnel for single use (30 litre capacity)



DOS module G 60 dispenser

- For liquid cleaning agents
- Dispensing pump, set via the electronic controls on the machine
- Siphon with magnetic float for displaying fluid level in 5 and 10 litre containers
- Conversion kit for longer suction tube (10–30 litre containers) available from Miele.

DOS module 60/1 dispenser

- Same as DOS G 60, but with siphon with magnetic float for displaying detergent level on 5 litre container only (short siphon)

Process instruments by machine for as little as 0.68 € per load



Cost effective instrument processing

Your benefit: Miele washer-disinfectors offer the best cleaning and disinfecting results with the best levels of safety when compared to other forms of processing. They also offer the most economical method of instrument processing.

Calculating the cost per load

*Calculations are based on a Miele Professional G 7882 including mobile unit E 327 with 4 mesh trays over a lifespan of 15 years running 2 loads per day.

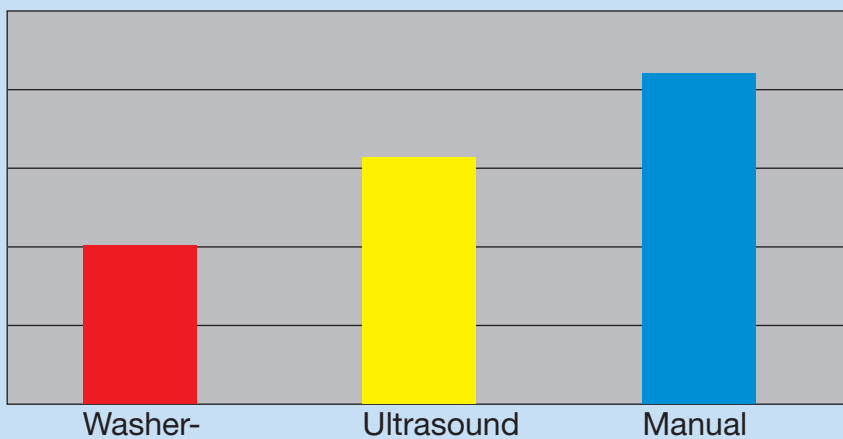
Maximum safety, optimum performance and low cost.

The illustration shows processing costs using different systems. The advantage of machine processing is clear to see.

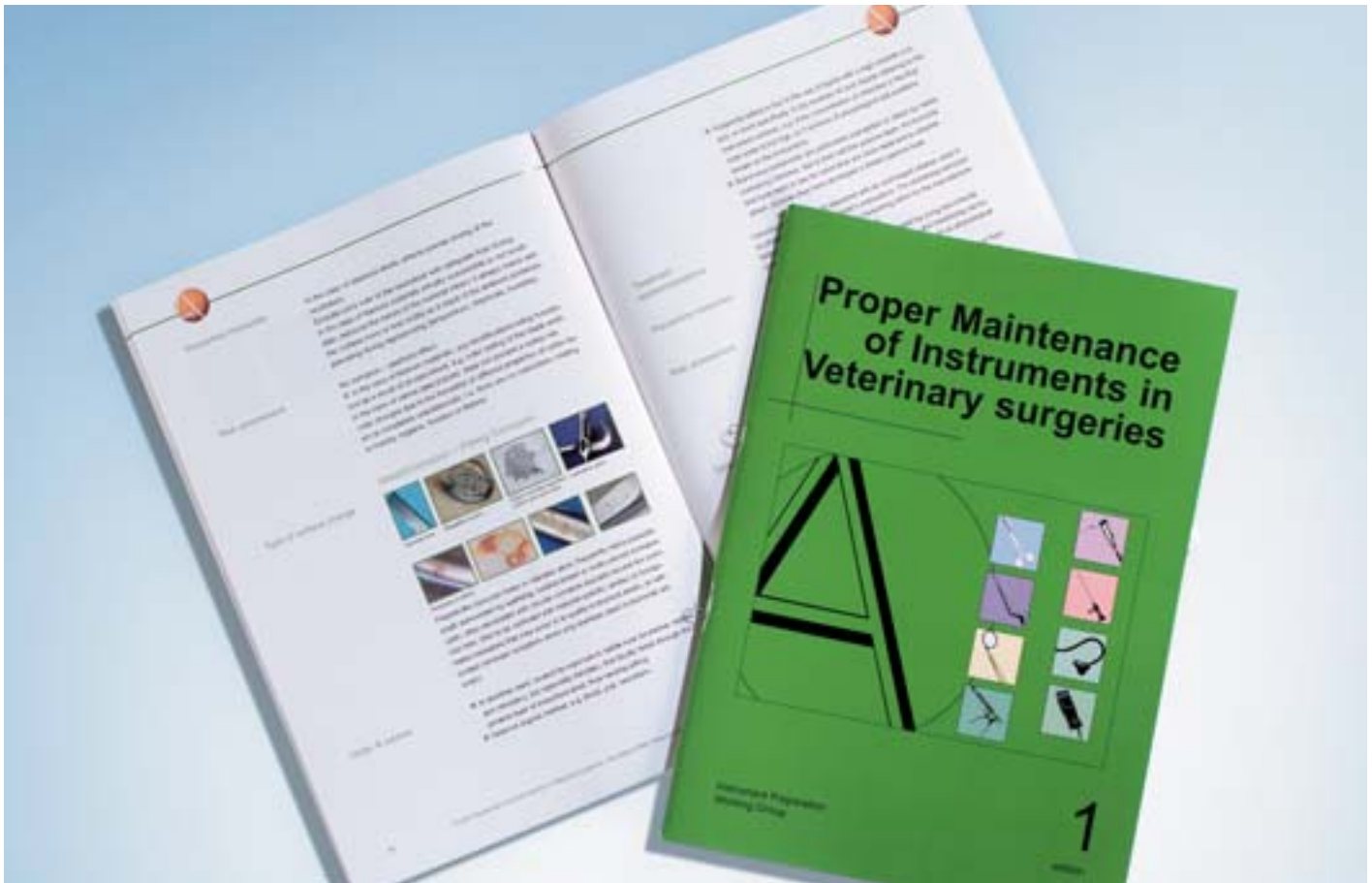
Calculations take the cost of the machine and accessories into account as well as personnel costs, working time and the cost of chemical agents, water and energy.

For more details on the economies of running a Miele washer-disinfector please contact Miele.

Comparison of reprocessing costs per day



Proper maintenance of instruments in veterinary surgeries



Excerpt from the latest AKI veterinary publication:

Instruments are a major asset and represent a significant share of the total capital spending of veterinarian hospitals and practices. The practical experience recorded in this guide, together with a description of fundamental interrelationships, is intended to help users to keep the reusable instruments in good working order and preserve their value for many years by ensuring proper care and maintenance. It should be emphasised that the recommended measures must always be carried out in accordance with the manufacturer's instructions, pertinent hygiene requirements and official safety-at-work guidelines.

For the preparation of instruments within the veterinary sector, no appropriate guidelines yet exist, nor are these instruments covered by the medical product legislation. However, rules for the prevention of accidents issued by professional associations are valid for both the veterinary and the human sector. Besides, the guidelines of the Robert-Koch Institute (RKI) are already applied with the veterinarian sector.

Unlike human medicine, where validation measures for procedures in the preparation of medical products are explicitly set out, it is the veterinary practitioner's own responsibility to validate the preparation of his equipment. These measures can be most usefully proven and integrated as a part of a quality management system. The current green booklet is a process oriented sequence of operations included in the guidelines from EN ISO 17664 „information for the recycling of resterilisable equipment, to be provided by the manufacturer“ and therefore can be included in such a system.

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For a copy of the publication please contact your Miele sales office or go to info@miele.de (www.miele-professional.com).

G 7831, G 7882, G 7892

Cleaning and disinfection programmes

G 7831	Programme duration	Consumption		Consumption
Connection: CW 15°C, AC 230, 3,3 kW	Cleaning [min]	CW [l]	AD [l]	Electricity [kWh]
DESIN 93°C-10'	55	18.8	–	1.9
DESIN vario TD	54	25.3	–	1.7
Intensive III	39	23.3	–	1.3
Cold I	4	6.5	–	0.01
Freely programmable programme (A)				

G 7882	Programme duration	Consumption: Washing		Consumption: Drying	
Connection: CW 15°C and AD 15°C, 3N AC 400 V, 9.7 kW	[min]	CW [l]	AD [l]	Electricity [kWh]	Electricity [kWh]
SPECIAL 93°C-10'	43	26.5	9.5	2.9	–
SPECIAL AN 93°C-10'	48	32.5	15.0	3.6	–
Vario TD	42	38.5	9.5	2.6	–
Vario TD AN	57	60.5	15.0	3.2	–
CHEM 60°C-5'	40	40.0	9.5	2.3	–
Combi CHEM 60°C-5'	34	29.5	9.5	1.8	–
Vario TD NR (B)	42	38.5	9.5	2.6	–
UNIVERSAL	28	29.5	9.5	1.8	–
COLD	3	10.0	–	0.02	–
Freely programmable programme (A)					

G 7892	Programme duration	Consumption: Washing		Consumption: Drying	
Connection: CW 15°C and AD 15°C, 3N AC 400 V, 9.7 kW	Cleaning* [min]	CW [l]	AD [l]	Electricity [kWh]	Electricity [kWh]
SPECIAL 93°C-10'	43 (45)	25.5	9.5	2.9	1.0
SPECIAL AN 93°C-10'	49 (55)	31.5	15.0	3.8	1.2
Vario TD	42 (45)	35.5	9.5	2.6	1.0
Vario TD AN	57 (55)	57.5	15.0	3.2	1.2
CHEM 60°C-5'	40 (55)	40.0	9.5	2.3	0.7
Combi CHEM 60°C-5'	34 (55)	29.5	9.5	1.8	0.7
Vario TD NR (B)	42 (45)	35.5	9.5	2.6	1.0
UNIVERSAL	32 (40)	29.5	9.5	1.8	0.5
COLD	3	10.0	–	0.02	–
Freely programmable programme programmable (A)					

* Drying times are quoted in brackets, the drying time can be set by the user

AD: Aqua destillata (demineralised water)

CW: Cold water



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