



Sonic Irrigator **PCT** system

Cannulated Instrument Cleaner

Reliable cannulated instrument cleaning
with process monitoring facility

- Sonic Irrigation
- Cannulated Pulse Flushing System
- Load performance optimisation
- EN ISO15883/HTM2030 compliant
- E-Zee Load Tray System compatibility
- Process Interlock
- 12 cannulated instruments connections

Compatible with:

- General Instruments and devices
- Laparoscopic Instruments
- Complex Instruments
- Cannulated/Lumened Instruments



How will Sonic Irrigation help me?

“Cleaning” is the removal of all foreign material (e.g., soil, organic material) from objects. It is normally accomplished with water, mechanical action and detergents. **“Cleaning must precede disinfection and sterilisation procedures.” APIC journal**

Conventional methods only clean the outside. What about the inside? Take bipolar forceps, thin lumens, laparoscopic instruments, E.N.T., orthopaedic instrumentation etc., all hard to clean instruments!

No other equipment actually ensures that the insides are scrubbed and flushed as well as the outside. By connecting the instrument to the Irrigation Flush port, the sonically charged jet of fluid is directed along the inside of the instrument thus providing an efficient cleaning process.

■ Pulsed jets of fluid (Sonic Irrigation™)

The sonically charged jet of fluid passes from the Sonic Irrigator into the instrument ensuring that both ultrasonic activity and detergent solution are delivered precisely to the blockage or residue, removing debris and flushing clean away.

■ Unequaled performance

The unique synergetic combination of enzymatic cleaning, variable pulse flushing and ultrasonic cleaning action is not found in any other equipment or process.

■ Validated process

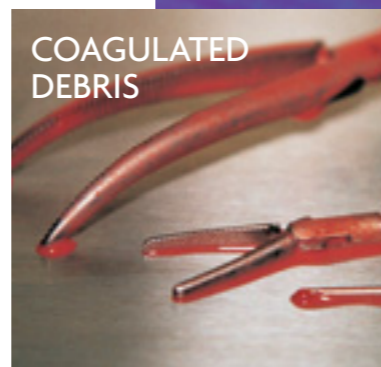
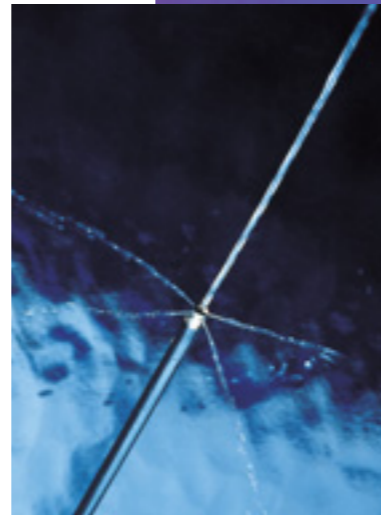
One touch of a button and the Sonic Irrigator is launched into a validated cleaning process, giving faithful reproduction of your known or proven process, time after time, each and every cycle.

■ Less handling of delicate instruments

Minimal handling means less risk of accidental damage to expensive and delicate instruments. The Medisafe Sonic Irrigator even tackles hard dried-on residues and debris, extending instrument life, therefore cutting replacement and repair bills.

■ If it's not clean - it can't be sterilised

Cleaning requires both mechanical action (ultrasonic scrubbing) and dilution (fluid). If fluid is not present at any part of the cycle, cleaning will not be achieved.



Take a look inside ...

Andrews-Pynchon Suction Tube
 Anthony Suction Tube
 Arthrex Suction Grasper
 Baron Suction Tubes
 Bower Sphenoid and Antrum Cannula
 Cannulated Drills
 Cannulated Headed Reamer
 Cannulated Trapezoidal Tunnel Shaper
 Cohen Cannula
 Coupland Suction Tube
 Coring Reamer
 Day Attic Cannula
 Duke Trocar
 Ear Suction Tubes
Endoscopic Forceps
E.N.T. Instruments
Fine Lumen Instruments
 Flexible Inflow Cannula System
 Frazier Ferguson Suction Tubes
 Guide Hook
 Hartman Eustachian Catheters
 Hi Flow Irrigation Sheath
 House Suction Irrigation Tubes
 Injection and Punction Needle
 Insufflation Needles
 Irrigation/Suction Tube
 Jackson Trachea Tube
 Krause Nasal Snare
Laparoscopic Forceps
 Lefort Catheters
 Menghini Biopsy Needles
 Miltex-Yankauer Suction Tube
 Mixer Irrigating Dilaprobe
 Non Sheathed Interference Screws
 Novak Endometrial Biopsy Curette
 Ochsner Trocars
 Parallel Guide Sleeve
 Poole Suction Tubes
 Pynchon Suction Tube
Reamers (Orthopaedic)
 Retractor
 Reverdin Needles
 Rotating Single/Double Arthroscope
 Suckers
 Suction Backbiter
 Suction Downbiter
 Suction and Irrigation Tubes
 Suction Punch
 Suction Regulator
 Tibial Tunnel Cannula
Veress Needles
 Valve Sheaths
 Van Alyea Antrum Cannula
 Van Alyea Frontal Cannula
 Yankauer Suction Tube
 Y-Stopcock

... to list just a few

How do I use Sonic Irrigation?

Clean up residues and deposits with '3E-Zyme' – Medisafe's **High Performance Triple Enzyme** Cleaning Solution.
 Part # MED8035

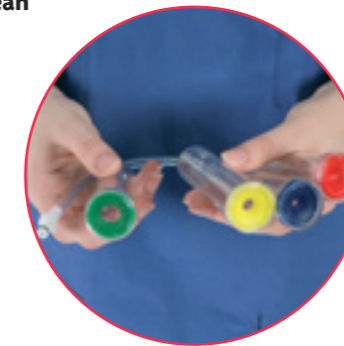


Use large 'yellow' or 'green' type distal connectors to force clean through large devices such as **orthopaedic reamers and dental hand pieces.**

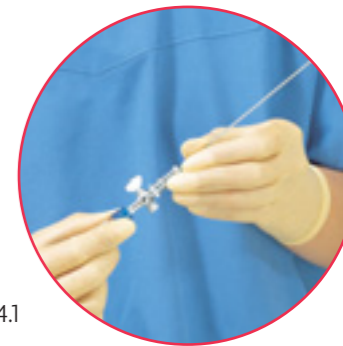


Yellow – Part # MED1226.3
 Green – Part # MED1226.5

Use quick-connect 'distal' connectors to **clean inside your non ported instruments** thoroughly. (Sizes 1 to 18mm) Red, Blue, Yellow and Green.
 Assorted Box
 Part # MED1226.4



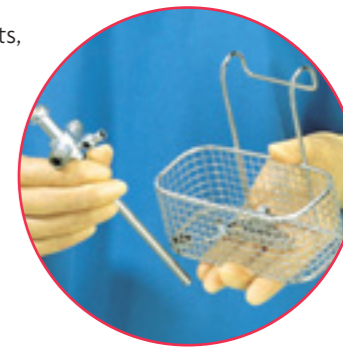
The Sonic Irrigator also uses luer connectors for **cleaning inside ported instruments.**
 Part # MED3084.1



Simple push-over fitting makes quick connection to non ported or non luer instruments - Choose 'Blue' for Medium.
 Part # MED1226.2



Instrument parts, screws caps springs etc., are all contained safely by using '**Small Accessory Basket**'.
 Part # BAS010



Connect fine or delicate 'hard to clean' instruments by using the Small 'Red' distal connector.
 Part # MED1226.1



Clean it right, consistently, every time! Let the machine take care of cleaning **ALL your cannulated or lumen instruments.**

Sonic Irrigation

for Complex Instruments ...
 for Cannulated Instruments ...
 for Lumened Instruments ...
 for Ultra Fine Lumened Instruments & Devices ...



Sonic Irrigator **PC+** system

The **Sonic Irrigator PC+** will clean 12 lumened instruments in a **single 15 minute cycle**.

The **Sonic Irrigator PC+** offers Sonic Irrigation with CPE (Cannulated Pulsed Flush Enhancement) but with the addition of monitoring features to record both key performance data for instrument traceability. The **PC+** system monitors the critical cleaning process parameters making adjustments where necessary ensuring the 'validated' or 'clinically proven' process is maintained.

Critical process parameters such as time, temperature and ultrasonic power are monitored in accordance with current guidance and international standards and can be recorded permanently through a discreetly placed 'data-port' which intelligently detects whether you wish to keep the information on a database system, or simply connect a printer for 'hard-copy' print out for 'traceability' and legislative issues.

Interlocking lid prevents mis-use

Medisafe's interlocking lid system interrupts the cleaning process ensuring process continuity protecting both healthcare staff and patients.

One touch safety and simplicity

With the single touch of a button Sonic Irrigator PC+ goes to work, thoroughly cleaning your instruments – **outperforming ALL other cleaning processes inside and out.**



Use Medisafe printer
Part # MED1014

It cleans on the inside as well!

If you haven't seen the performance of **Sonic Irrigator PC+** call us for further information or a demonstration.



Non Ported Instruments – a push over!

Instruments from 1mm to 18mm are 'quick connected' providing convenient attachment to lumened instruments with or without flush ports. Simply slide over the distal end of the instrument – 'connect' and 'push start' and your instruments will be cleaned inside and out.



WORLD LEADERS IN ADVANCED SURGICAL INSTRUMENT REPROCESSING TECHNOLOGY



Validation Testing and Compliance

Ultra Quiet Ultrasonics

Ultra-modern technology has allowed our engineers to take a dynamic approach to our ultrasonic power systems and electronic circuit design, resulting in both increased power and dramatically reduced audible noise.



New ultra-high specification electronic components and circuit configuration, normally reserved for aerospace and military applications, are employed in all Medisafe **PC+** machines and systems ensuring maximum power delivery and ultra-high efficiency.

Guaranteed – Process Validation

The **Sonic Irrigator PC+** has two separate circuits; these are used for controlling and monitoring the process. The two circuits are 'sensing' circuits and are both accurate to $\pm 1.2\%$.



The two signals (information) provided by these sensors are compared by a hybrid circuit every 2 milliseconds (one quarter of a second) during the washing and disinfection phases.

If the circuit detects a difference between the two, both audible and 'on screen' alarms will be operated. If the machine is being used with a printer or traceability system, this message will be printed on the cycle process report (Print Out). The cleaning process will also be halted to allow immediate and corrective action if required.

In the event of ANY error in the process, the machine will require the operator/supervisor to intervene. By touching any control button (Door Release or Start/Restart Button) – the process will be halted and the machine will automatically drain whilst simultaneously 'audibly beeping' and displaying/printing 'Cycle Abort'.

This unique system allows the operator to have knowledge of the true working conditions inside the wash chamber without huge investment in routine tests or test equipment.

Process traceable with printout

In compliance with the requirements outlined in the UK's DOH circular – a small printer may be connected to the machine enabling the critical operation parameters and performance indicators to be permanently documented for record keeping and trace-ability.



As required with the larger hospital equipment, Medisafe's Sonic Irrigator PC+ uses a secondary onboard monitoring computer circuit to ensure real-time (actual) critical operation parameters are recorded.

Accurate record keeping will give you long-term reassurance that your decontamination protocols are documented and adhered to.

2nd Set Up

Use two **E-Zee load baskets** to improve your instrument processing time and get more from your Sonic Irrigator cannulated instrument cleaner.



Our range of accessories and consumables will help ensure the smooth operation of your Medisafe Sonic Irrigator.



Distal Connectors

To enable the user to connect a wide range of instrumentation via both luer lock and retro flush functions.
Medisafe Part # MED1226.4



Irrigation Plumbing Kit

Allows for the compatibility of a wide range of instruments both pre and post luer lock development.
Medisafe Part # MED1013.9



Enzyme Foam Spray

Multi-Enzymatic Foam Spray 'pre-soak' for surgical instruments. Prevents 'post-op' residual soil from building up.
Medisafe Part # MED8050



3E-Zyme

Medisafe's multi Enzyme detergent specifically formulated for use with washer disinfectors and optimised for use with ultrasonic equipment.
Medisafe Part # MED8035



Alkaline Detergent

Alkaline detergent for use with instrumentation considered or specified as high risk.
Medisafe Part # MED8021



Filters

Specifically designed to help catch debris or biohazard before it is recycled through the equipment.
Medisafe Part # MED3079 pack of 24
Medisafe Part # MED3080 pack of 100



Test Instruments

Providing easy to use routine testing to HTM2030 & ISO15883. In-line Lumen check 'test instrument' tests your machines' lumen cleaning performance.
Medisafe Part # MED1000.20
Pack of 25 Lumen Check Strips
Medisafe Part # MED1000.08



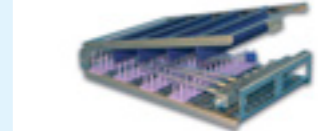
Small Accessory Basket

Instrument parts, screws, caps, springs etc are all contained safely for processing.
Medisafe Part # BAS010



Brushes

Known as 'brushes for all occasions' because we have a brush designed to fit every cleaning application you have.



ICTMIMS:

Ophtho Standard

With out flushing accessory.
Medisafe Part# MED9000

Ophtho

With single flushing accessory.
Medisafe Part# MED9011



Half Euro Standard

With millipede and pressure ball mouldings.
Medisafe Part# MED9003



Full Euro Standard

With millipede and pressure ball mouldings.
Medisafe Part# MED9004



Flushing Accessory

Supplied with silicone supply hose and connection.
Medisafe Part# MED9007



Standard Phaco Plumbing Kit

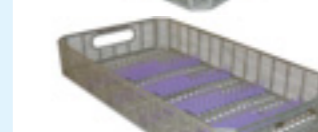
Medisafe Part# MED9013



Care Systems Tray System:

Half Euro

With millipede mouldings and two instrument security arms.
Medisafe Part# MED9005



Full Euro

With millipede mouldings and four instrument security arms.
Medisafe Part# MED9006



PICO

Washer Disinfectant.
3 models.
Standard – Medisafe Part# MED1159
Flush – Medisafe Part# MED-D1159
Powerflush – Medisafe Part# MED-OP1159



Reliance PC+

Table-top Ultrasonic Cleaner
Medisafe Part# MED1120D



in surface option



World Leaders in Advanced Surgical Instrument Reprocessing Technology



Sonic Irrigator PC+ series 220v version – Part # MED1132
 Sonic Irrigator PC+ series 110v version – Part # MED1132.1

Specification

Use	For internal and external cleaning of fine surgical instruments and other lumen instruments	
Dimensions		
<i>External</i>	Front to Back:	445mm (17.5")
	Width:	715mm + drain 40mm (28" + 1.5")
	Height:	345mm (13.5")
Unit weight	30kg (66lbs) empty	
Capacity	26 litres approx (6.5 US galls approx) 12 cannulated instruments (max) 2 kilos of instruments	
Electrical	110-120v, 50-60Hz 220-250v, 50-60Hz 5 Watts (standby) 1200 Watts (in use) 1800 Watts (max)	
Supply	Manual supply, not automatic	
Environmental	For indoor use at altitudes up to 2000m. Operating temperature 10°C to 40°C. Humidity –80% RH max for temperatures up to 31°C, decreasing linearly to 50% RH at 40°C. Designed for Pollution Degree 2, ie. not totally sealed.	
Construction		
	Outer Casing:	High grade corrosion resistant stainless steel with brushed finish
	Control fascia:	Wipe clean polycarbonate
	Sound Attenuating Lid:	Stainless steel

Safety

- Electronic thermostatic protection to prevent over temperature operation
- Thermal switch off to protect heater
- Low fluid level protection to prevent heat burnout and over current
- Ultrasonic overcurrent protection
- Fused L & N
- Fused Ultrasonic Generator

Equipment & Performance

- Compatible with E-Zee Load Basket during Sonic Irrigation
- Medisafe Horn Transducers
- Cunulated Pulse Enhancement (CPE) unit
- Variable pulse pressure 1 Bar nominal (2 Bar max)
- Cavitation 700 Bar (10,000 psi)

Controls & Features

- Target time set 1 – 30 mins
- Target temperature set ambient to 60°C
- Actual/Remaining time set
- Actual/Ambient temp set
- Up and Down increment
- Temperature maintenance on/off
- Standby
- Process start
- Quick Drain System
- RS232 output
- Intelligent port/printer port
- Key process parameter monitoring

Quality

- Manufactured in the UK under Medisafe's ISO9001/13485 quality programme

Consumables

- Use 3E-Zyme to digest post procedure residues. Supplied in 4 litre bottles Part # MED8035
- Alkaline Detergent

Please note:

Sonic Irrigator PC+ comes complete with:

- 1 off 2.4 metre Cold Water Hose
- 1 off 2.4 metre Drain Hose
- 1 off 2.0 metre Power Cord (connected)
- Data Lead
- User Manual

Validated Performance Guaranteed Products

E-Zee load basket	Part # MED1018
3E-Zyme – 4 litres	Part # MED8035
Alkaline Detergent – 4 litres	Part # MED8021
Distal Quick connect connectors (assorted)	Part # MED1226.4
Ex Large (Green) Distal connector	Part # MED1226.5
Large (Yellow) Distal connector	Part # MED1226.3
Medium (Blue) Distal connector	Part # MED1226.2
Small (Red) Distal connector	Part # MED1226.1
Small Accessory Basket	Part # BAS010

Medisafe International

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Reg no 0473 INVESTOR IN PEOPLE

