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A Quantum leap
in ultrasonic cleaning

Q-Series



Ultrawave
Precision ultrasonic cleaning equipment



Superior ultrasonic cleaning for all professional environments

The Q-Series from Ultrawave combines new technology with ease of operation and a modern design to reinvent ultrasonic cleaning.

A Quantum leap in cleaning

For the first time in an Ultrawave benchtop, Frequency Leap technology provides vastly improved cleaning results.

Although frequency sweep reduces the effect of standing waves generated with fixed frequency ultrasonics, the dead spots created by these waves still reduce cleaning efficacy.

Using advanced software and ultrasonic generators, the Q-Series uses Frequency Leap to create a pseudo-random leaping action between a wider frequency range, reducing these standing waves further and improving the cleaning action.

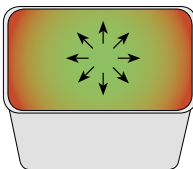
- Reduced dead spots and minimal standing waves increase ultrasonic activity
- More homogenous cavitation activity throughout the tank means a more consistent cleaning action
- Improved instrument and component cleaning cycle after cycle
- Faster, more effective cleaning results

All this means consistently cleaner instruments in a quicker cycle time.

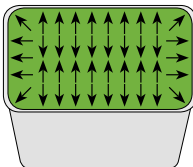
Medical, laboratory and other industry professionals can now command excellent, repeatable and traceable cleaning results from the Q-Series of ultrasonic benchtop cleaners.



This illustration shows the reduced ultrasonic cleaning power in some parts of the tank when fixed frequency ultrasonic cleaning technology is used.



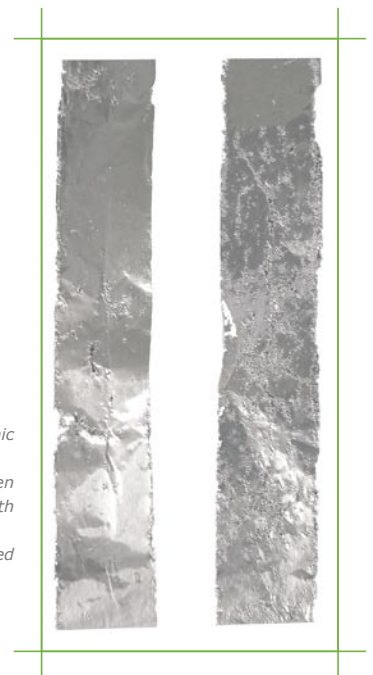
Q-Series Frequency Leap technology promotes homogenous cavitation activity throughout the tank. This means increased ultrasonic activity, reduced dead spots and a more consistent cleaning action.



A simple foil test can be used to measure ultrasonic activity.

This photograph of two foil test strips shows the uneven erosion pattern on the left hand strip achieved with traditional ultrasonic cleaning technology.

The right hand strip shows the improved results achieved with Frequency Leap technology.



A Quantum leap in validation

Cleaning Process Control

Understanding the operator's need to trace cleaning processes, each Q-Series cleaner is fitted with an integral SD card slot which allows digital validation of every cleaning cycle.

Rather than traditional hard copy validation provided by printers, the Q-Series allows digital traceability of every cleaning cycle. When an SD card is plugged into the Q-Series, the cleaning cycle parameters are immediately saved on the card for easy transfer to a PC.

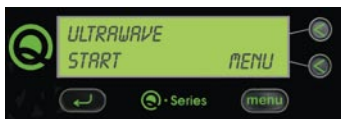
Each cleaning cycle parameter is recorded meaning that operators have a traceable record which can be easily saved and the cleaning cycle repeated. If a hard copy is required, it can be easily printed from the PC.

- SD port allows easy validation tracking between Q-Series and PC
- Improved software memory logs cleaning parameters allowing easy cycle repeatability
- Easy traceability of cycle number, time, temperature and sonics validation
- No need to store hard copy records of each cleaning cycle



Menu Driven Cleaning Process

Each parameter of the ultrasonic cleaning process can be tailored to the user's exact requirements:



1. Choose between "Quick Start" or set new cycle cleaning parameters in the options menu



2. Accurate temperature control between 0 and 80°C



3. Accurate cycle time setting between 1 and 99 mins



4. Adjustable power of the ultrasonic activity



5. Degas cycle ensures optimum cleaning efficacy



6. Frequency Leap or fixed frequency ultrasonic process can be chosen



7. Cleaning parameters measured and displayed during the cycle

A Quantum leap in control

Advanced software control

Ultrawave's Q-Series software allows accurate cleaning parameter control and is simple to use in all applications:

- Easy to use programme menu
- Intelligent software remembers last cycle cleaning settings
- Combines menu driven controls with single touch easy operation
- Precise, scientific and clinical cleaning process

Easy to use

Accurate temperature and timing settings allow the operator to have full control over all aspects of the cleaning cycle.

Time, temperature and power settings can be adjusted to highly specific measurements ensuring that precise and accurate cleaning requirements can be met.

Accurate fluid level sensors ensure the bath is not under-filled prior to or during the cycle, ensuring that the optimum cleaning process can occur and potential damage to the tank is minimised.



Digital control panel and easily accessible SD card slot



Simple to use drain valve



A Quantum leap in design

Modern, sleek design in many sizes

The Q-Series introduces a radical design update to Ultrawave benchtop cleaners. The high specification materials and components have been chosen to match the exacting cleaning and processing requirements of precise industries.

The ergonomic, angled LCD control panel allows easy visibility of the simple to use operator menu. Cleaning cycle settings can be easily programmed and are displayed during the cleaning cycle.

The stainless steel case is durable and easy to clean and maintain while the simple to use drain valve allows easy emptying of the Q-Series bath, once the cycle is complete.

- Every Q-Series ultrasonic bath is supplied with a stainless steel basket and tight fitting, ergonomic lid.
- The Q-Series lids significantly reduce the volume of noise generated by the ultrasonic bath while their tight fit minimises the potential of aerosol escape.
- Each lid and basket combines to form a drip collection unit, minimising the flow of contaminated water, once the cycle is finished

Basket and lid/drip tray





Q-Series

Frequency leap technology



Q-Series models are supplied with the following features as standard:

- Basket and lid/drip tray
- Digital control panel
- Heated 0–80°C
- Frequency Leap Technology
- Timer (0–99 mins)
- Drain outlet
- SD card slot for digital validation

Specifications

Model	Working Capacity (litres)	Max Capacity (litres)	External Dimensions (mm)	Tank Dimensions (mm)	Basket Dimensions (mm)	Approx. Weight	Ultrasonic Power
QS3	2.5	2.75	285x184x267	240x140x100	220x125x40	4.5 kg	50 Watts
QS4	3.75	4	285x184x267	240x140x150	215x120x90	5 kg	50 Watts
QS5	4.5	5	345x200x267	300x150x150	273x125x90	5.5 kg	100 Watts
QS10	9.5	10.5	550x183x267	500x140x150	460x110x90	7 kg	200 Watts
QS12	12.5	14	345x288x366	295x245x200	265x215x140	10 kg	200 Watts
QS18	17.5	18.5	374x347x366	330x300x200	285x260x140	15 kg	300 Watts
QS25	25	28	551x347x366	500x300x200	470x270x140	17 kg	400 Watts

