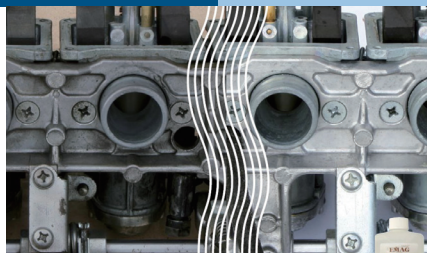
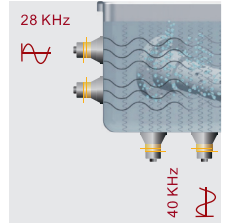




SONOIND SERIES

High-power ultrasonic cleaner



clangsônic

Typical Industrial Application

Automobile Industry

Cleaning of injection nozzles, carburetors, spray guns, nozzles, shock absorbers, engine parts, circuit boards and cutting tools

Precision Mechanics

Cleaning of stainless steel, brass and aluminum parts

Mechanical engineering

Cleaning and degreasing of bearings, crankshafts, double-sided plates, work pieces, electrostatic filters

Wood working industry

Cleaning of wood working tools and maintenance of machine parts

Pharmaceutical industry

Cleaning of metal filters and tabletting tools

Medicine technology

Cleaning of prostheses, implants and artificial joints

Grinding and polishing shops

Cleaning of lamp shades

Power stations

Cleaning of oil and smoke filters, decontamination

Energy management

Cleaning of armatures and water meters

Optical and glass industry

Preliminary and intermediate cleaning of optics and lenses

Pneumatic tools

Removal of grease, oil, abrasion and resinous residues during maintenance

Industrial safety and fire protection

Cleaning of respirator masks and sooty parts

Industrial safety and fire protection

Cleaning of respirator masks and sooty parts

Thin-layer technology

Cleaning of sensor parts

Thin-layer technology

Cleaning of computer parts

Transport technology

Cleaning of relays, soldered frames, gear box and engine parts

Material testing

Cleaning and degreasing of measuring tools

Office technology

Component cleaning of copying machines, printers, postal franking machines, cases and keyboards

Catering trade

Cleaning and degreasing of electrostatic filters and parts of coffee machines

Plastics Industry

Cleaning of plastics and plastics shaping tools

Three product lines, each offering different applications for industry trade and service

Constantly increasing demands on product quality require also adequate ultrasonic equipment featuring sophisticated technology and high flexibility.

CLANGSONIC offers a variety of equipment for individual cleaning requirements that meet today's demand for high quality, economic efficiency and environment associated factors.

The following summary gives an overview of the range of products and is thought to help in pre-selecting suitable products.

Characteristics	RZ16-RZ210	RZ112-RZ212	RZ112-RZ212
Tank Filling Volume	13 to 235 litres	125 to 250 litres	125 to 250 litres
Tank Version	Right-angle tank corners	Round tank corners	Round tank corners
Tank Bottom	Flat	Inclined toward tank drain	Inclined toward tank drain
Ultrasonic Transducers	On the bottom	On the bottom	On the bottom and at the side
Ultrasonic Power	Fixed	Fixed	Adjustable
Ultrasonic Generator	Built-in	Built-in	Separate
Ultrasonic Frequency	20-175KHZ	20-175KHZ	20-175KHZ
Operating Elements	At bottom, right side	At upper right side	At upper right side
Accessories	Compatible	Compatible	Compatible
Peripheral Devices	Compatible	Compatible	Compatible

Four advantages of ultrasonic cleaning

Economical

Using ultrasonic cleaning regularly saves money

The material to be cleaned will last longer due to the more gentle effect of ultrasound, thus reducing the need for spare parts

Faster cleaning processes reduce standstill periods between productions

Efficient

Ultrasonic cleaning processes are effective

A very high quality of cleanness is achieved

Brushing and wiping is unnecessary

The material to be cleaned, including its surfaces, are not damaged

Even unusually shaped parts can be cleaned

Environmentally friendly

Biologically degradable cleaning agents are used instead of ecologically harmful solvents

Oil separators and bath filtration extend amount of time that the cleaning agent can be used, thus, the consumption of chemicals and waste water is reduced

Easy to use

Ultrasonic cleaning devices :

are easy to install

are easy to operate

are maintenance free

do not require special training

Four reasons of why ultrasonic cleaning is the better choice

Ultrasound

Ultrasound produces smallest vacuum bubbles in liquids.

These bubbles then implode immediately (cavitation).

The forces resulting from cavitation cause an intensive and gentle removal of dirt particles from the object to be cleaned.



Temperature

Many cleaning agents become fully effective only at high bath temperatures.

The cleaning solution can be heated through the cleaning device's heating system.



Chemistry

The cleaning agent supports the cavitation process, reduces the water's surface tension, separates and binds dirt particles.

Depending on the type of dirt accumulation, different cleaning agents can be employed.



Time

Compared to other methods, the joint application of chemical agents and ultrasound reduces the time needed for cleaning up to 90 %.

Depending on the amount of dirt, that time varies from a few seconds up to a couple of minutes.



Range of Application

- ✘ Surface technology
- ✘ Automobile industry
- ✘ Machine and plant construction
- ✘ Printing industry
- ✘ Semiconductor industry
- ✘ Plating (Galvanic) industry

- ✘ Beverage industry
- ✘ Aviation
- ✘ Television industry
- ✘ Plastics industry
- ✘ Textile industry
- ✘ Laboratories

Cleaning and degreasing

- ✘ Engine blocks, radiators
- ✘ Ball bearings, carburetors
- ✘ Valves, nozzles
- ✘ Forming tools for plastics
- ✘ Electrostatic fi lters, hydraulic fi lters
- ✘ Respirator masks
- ✘ Printing rollers

- ✘ Wood working tools
- ✘ Electronic components
- ✘ Mechanical measuring and testing devices
- ✘ Analysis sieves
- ✘ Technical glassware
- ✘ Watches, jewellery, glasses

Stand alone type ultrasonic devices from 6 to 30 litres



Aluminum alloy handle

Aluminum alloy material, not easy to rust, firm and durable



Stainless steel mesh

The whole ultrasonic cleaner is made of stainless steel, not easy to rust, looks beautiful as a whole



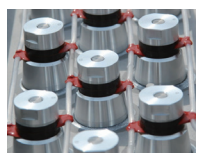
Valves

High-class stainless steel valves



liquid level

It will damage ultrasonic transducer and heater if low liquid level



High frequency transducer

Different frequency transducers are adopted in the inside to achieve best cleaning effect



Control panel

High definition LCD, film control panel, easy to use, not easy to be damaged

1.Selectable frequency 28KHz or 68KHz

2.Heating control function, temperature 20-80℃ adjustable.

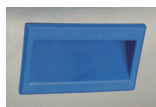
3.LCD displays cleaning time adjustable (0-30minutes), constant operation

4.Tank is diecasted by SUS304 stainless steel once, handsome appearance, easy to use and maintain, economical.

5.Widely applied in medical, schools, research institutes and scientific laboratories, glasses and jewelery stores, household and small industrial products cleaning.

Mode	Internal tank dimensions (L×W×D) mm	Volume L	External tank dimensions (L×W×D) mm	Ultrasonic peak power W	Ultrasonic effective power W	Heating power W	Rated current A	Drainage valves "	Machine Weight KG
SONOCLG UC150	300×150×150	6.8	439×198×316	150	120	800	1.5	G1/2	8.0
SONOCLG UC300	300×240×150	10.8	428×264×316	300	240	1200	2.5	G3/4	11.5
SONOCLG UC650	500×300×200	30	635×326×416	650	520	2000	3.5	G1	18.0

Stand alone type ultrasonic cleaning devices, tank volume 84-250litre



ABS plastic handle

(embedded)ABS plastic handle is located in both sides of tank, easy to move ultrasonic cleaner



Operating interface

Heating switch, temperature thermostatically adjustable (30 °C-80 °C)

Ultrasonic generator

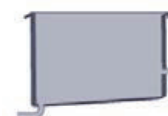
(embedded) can choose frequency of 20-200KHZ in terms of requirements

Tilted tank bottom

Advantageous to emitting cleaning fluid and reducing pollutant and effluent on the bottom

Safety bracket

Height adjustable



Based equipment (identical for RM 110-210)

- Overflow gutter for oil separator
- heating devices
- Drainage ball valves
- tank made of 20mm stainless steel SUS304
- anti-leakage housing made of 1.0mm stainless steel SUS304
- filling level mark
- ultrasound
- additional outlet

9 modes and 3 standard sizes, can be customized according to cleaning request:

RZ.....UP ultrasonic cleaning, can be heated

RZ.....U ultrasonic cleaning, can be heated, can be sprayed (with overflow mouth)

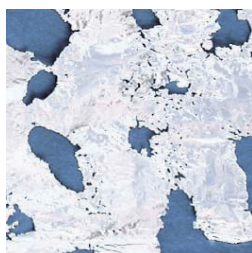
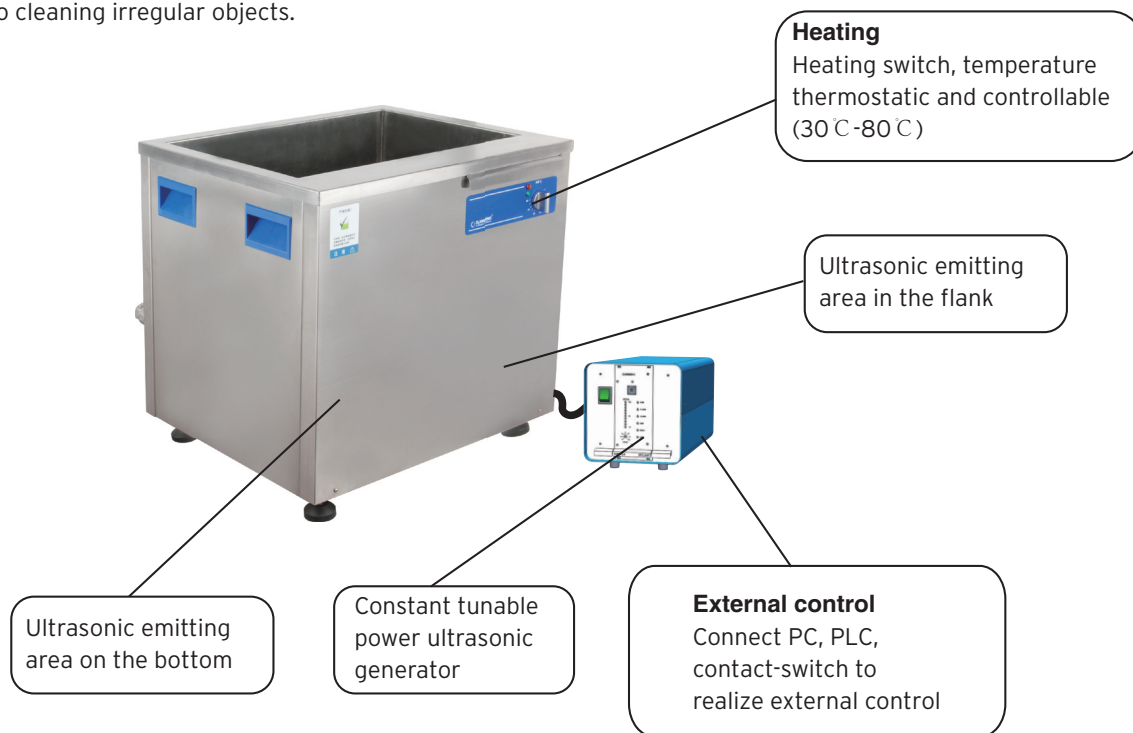
RZ.....H ultrasonic cleaning, bubble cleaning, can be heated

Mode	Internal tank dimensions (L×W×D) mm	Volume L	External tank dimensions (L×W×D) mm	Ultrasonic peak power W	Ultrasonic effective power W	Heating power W	Rated current A	Drainage valves "	Machine Weight KG
RZ 112U RZ 112UP RZ 112H	600×400×350	84	680×540×580	1680	1400	5000	4.0	G1	53.0
RZ 182U RZ 182UP RZ 182H	1000×500×400	200	1180×660×800	8000 12000 ...	1×2000 2×2000 ...	7600	7.5 15.0 ...	G1	130.0 138.0 110.0
RZ 212U RZ 212UP RZ 212H	750×650×500	250	930×810×800	8000 12000 ...	1×2000 2×2000 ...	7600	7.5 15.0 ...	G1	104.0 112.0 92.0

Double frequency ultrasonic cleaning devices

Separate ultrasonic generator and ultrasonic cleaner to prevent tank from working in wet conditions. A generator can drive tanks of different frequencies simultaneously to meet every stage's various needs in line production.

Transducers of different frequencies are respectively installed on the bottom or the flank of tank, which distributes ultrasonic more evenly and largely reduces cleaning time as well as improves cleaning effect. Such design is applicable to cleaning irregular objects.



28KHZ



28KHZ和40KHZ

Ample of I ultrasonic effect on aluminum foil

IEC/TR60886

Multi-frequency cleaning devices and one-piece ultrasonic cleaning devices:

1.Ultrasonic generator

Double-frequency cleaner's generator is independent from the device to prevent it from working in wet conditions, and can connect PC, PLC or HMI to realize external control.

2.Frequency

Multi-frequency and power can be integrated into a tank, which is applicable to cleaning of irregular objects and special applications.

3.Customization

Please inform us your cleaning requests, and we shall provide the most professional design proposal for you.



High-power ultrasonic submersible transducer

Clangsonic submersible transducer is made by automatic Argon Arc welding equipment, which can ensure the reliability and no leakage.

Good wearability and anti-corrosion with hard chrome plating surface can extend product lifespan more than one time.



Filter PF

To be connected to ultrasonic cleaning tank. Particles that are removed during cleaning are extracted by filter. This prolongs the use of the liquid-filled bath while its cleaning capacity remains unchanged.



Oil separator OX

To be connected to the ultrasonic cleaning tank if parts soiled with oily or greasy contaminants are to be cleaned. Dirt accumulations floating on the bath's surface are led via the overflow gutter into the oil separator and are separated by means of gravitation.



DI-Water treatment WA

Change electronic structure in water molecules by direct action of high-voltage electrostatic field, water dipole will surround cation and anion, and line up according to positive and negative chain sequence and prevent them from moving freely, the cation in water will move towards wall, prevent calcium and magnesium from forming incrustation, achieve scale prevention.

Item	RZ16	RZ40	RZ75	RZ110 RT112 RZ112	RZ180 RT182 RZ182	RZ210 RT212 RZ212
Filtration	PF16	PF40	PF75	PF110	PF180	PF210
Oil separator	PF16	OX40	OX75	OX110	OX180	OX210
DI-water treatment	PF16	WA40	WA75	WA110	WA180	WA210
Trough dryer	TO16	TO40	TO75	TO110	TO180	TO210



Lid MD

Made of stainless steel to protect from contamination



Basket MK

Made of stainless steel, the parts to be cleaned must not be placed on the tank bottom

Item	RZ16	RZ40	RZ75	RZ110 RT112 RZ112	RZ180 RT182 RZ182	RZ210 RT212 RZ212
Lid	MD16	MD40	MD75	MD110	MD180	MD210
Basket	MK16	MK40	MK75			
Basket		MK40	MK75	MD110	MD180	MD210
Loads up to 40kgs				MD110	MD180	MD210

Clangsonic has developed ultrasonic cleaning, welding, machining, screening, atomizing, liquid treatment, medical and cutting products over last 13 years.

We always dedicate ourselves to all kinds of ultrasonic application R&D to find desired solution and possibilities for enterprises and industries. With more than 100 excellent staff and professional technical team, we are confident to respond to every customer's questions quickly. Now we've built close cooperation relationship with universities home and abroad, domestic famous research institutes and other associations.

Application:

- * Automobile Industry
- * Surface Treatment Industry
- * Food Industry
- * Beverage Industry
- * Semiconductor Industry
- * Textile Industry
- * Laboratories
- * Water Treatment
- * Plastics Industry
- * Aviation

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