

IST4000 PERFORMANCE ULTRASONIC CLEANER



Overall dimensions	2300(l) x 1700(w) x 1700(h)mm
Tank dimensions	2000 x 1500 x 1500mm
Ultrasonic power	16.8kw peak
Transducer configuration	Side wall mounted
Ultrasonic frequency	30KHz
Heating	2 x 12kw
Tank material	Stainless steel 2mm SUS316
Tank construction	Double braced, TIG weld
Cover material	Stainless steel SUS304
Pump and filter	Yes
Drain tap	2" B.S.P.
Ultrasonic control	Adjustable digital timer
Heat control	Adjustable digital thermostat
Tank capacity	4000L
Control cabinet	1200(l) x 400(w) x 2000(h)mm
Power supply	AC 380 - 415V, 50/60Hz 3ph
Power consumption	34kw full loading
Gross weight	1500kg
Approvals	CE

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What is Ultrasonic Cleaning?

Ultrasonic cleaning works by producing millions of jets or streams of cavitation bubbles within a liquid which collapse against any hard surface removing contaminated particles with each implosion. As these cavitation bubbles are smaller than one micron they penetrate into all areas.

Why choose Hilsonic?

With over 35 years' experience, we pride ourselves on being THE experts in ultrasonic cleaning innovation, technology and construction. Our equipment is specifically designed and constructed for superior performance, long life and continuous service and is used in marine, power generation, aerospace, medical and many other sectors in the UK and throughout the world.

Unique characteristics

Generator

The powerful generator system offers a patented frequency sweep for uniform and intense cavitation. With its efficient energy transfer, the generator requires no forced air cooling and channels energy directly into the transducers.

Transducers

The transducers are made of high quality phosphor-bronze/silver construction in order to minimise heat build up, thus extending the life of the transducers and piezo electric crystals.

Hilsonic ultrasonic cleaning systems offer an effective solution to the cleaning requirements of the power generation and marine industries including:

- Valve spindles
- Fuel injectors
- Filters
- Cylinder heads
- Pistons
- Heat exchangers
- Intercoolers

Designers and Manufacturers of **Ultrasonic Cleaning Equipment**



Optional accessories

Oil Separator or Oil Skimmer

External floor-mounted oil separator or CIP mounted oil skimmer can be added to assist with the removal of oil contamination from the system. By using the oil separator or the oil skimmer, you obtain even better cleaning results, maintain chemical integrity and save on disposal costs.

Chemicals

Hilsonic marine cleaning solution is specifically designed for the removal of scale, rust and oil.

The Hilsonic intercooler cleaning solution is based on a synergistic blend of components, which enables rapid penetration and removal of heavy carbon deposits, oils and general contamination.



Patented technology

Our transducers are built in house to a unique patented design to minimize erosion and provide all round cleaning operating at 30kHz +/-2. The FMG600 generator features a frequency sweep for more uniform and intense cavitation, Auto-follow to maintain power levels independent of loading, protected from over-voltage, over-temperature and mains born transients. With its high efficiency this generator requires no forced air cooling and channels the energy directly into the transducers.

Our patented generator technology features predetermined frequency sweep and our twin tandem transducers capable of driving up to 2 metres in height with full cavitation, a most important feature in the cleaning of the larger intercooler and heat exchanger.

Cavitation not only breaks down the contamination but also speeds up the chemical reaction time thereby not only cleaning to 'like new' standard but in a fraction of the time taken with more traditional methods.

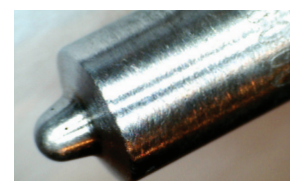
Before and After

Our patented frequency sweep moves the cavitation bubbles up and down the item to be cleaned at a hundred times a second, ensuring no part of the item gets too much or too little cavitation.

BEFORE ULTRASONIC CLEANING



AFTER ULTRASONIC CLEANING



Designers and Manufacturers of **Ultrasonic Cleaning Equipment**

