

# IST2000 PERFORMANCE ULTRASONIC CLEANER



<b>Overall dimensions</b>	700(l) x 800(w) x 900(h)mm
<b>Tank dimensions</b>	500 x 500 x 200mm
<b>Ultrasonic power</b>	2.4kw peak
<b>Transducer configuration</b>	Side wall mounted
<b>Ultrasonic frequency</b>	30KHz
<b>Heating</b>	2kw
<b>Tank material</b>	Stainless steel 2mm SUS316
<b>Tank construction</b>	Double braced, TIG weld
<b>Cover material</b>	Patented stainless steel SUS304
<b>Pump and filter</b>	Yes
<b>Drain tap</b>	1" B.S.P.
<b>Ultrasonic control</b>	Adjustable digital timer
<b>Heat control</b>	Adjustable digital thermostat
<b>Tank capacity</b>	50L
<b>Control cabinet</b>	Internal
<b>Power supply</b>	AC 220V, 50/60Hz
<b>Power consumption</b>	3kw full loading
<b>Gross weight</b>	100kg
<b>Approvals</b>	CE

Hilsonic, Units 1-4, Cashel Road, Wirral, Merseyside CH41 1DY  
Tel: +44(0)151 639 6020 Fax: +44(0)151 639 5782  
Email: sales@hilsonic.co.uk [www.hilsonic.co.uk](http://www.hilsonic.co.uk)

## 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



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