

# Marine Sonic Cleaning INSONEX® & Sonoforce®

Kockum Sonics, the manufacturer of the most well-known acoustic device in the world, the TYFON®, has also a wide range of sound emitters for cleaning purposes.

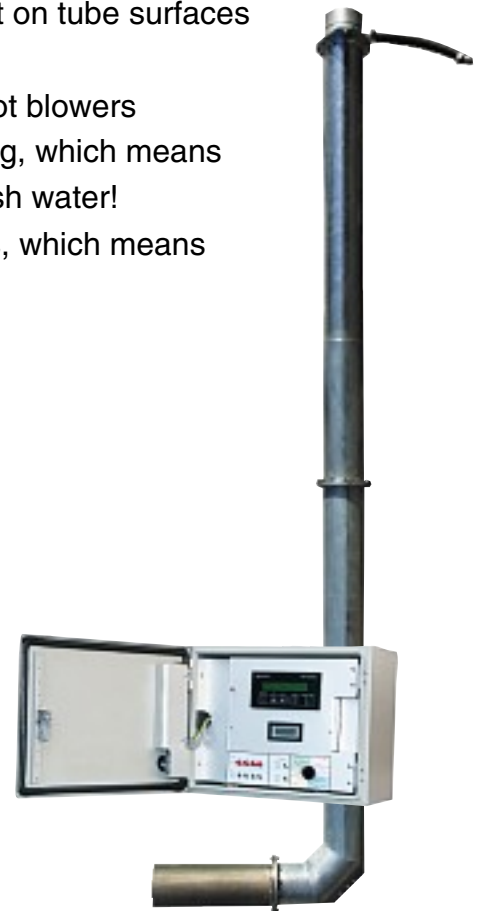
Sound cleaning is a very efficient method for keeping inner structures clean in exhaust gas boilers, main boilers, auxiliary oil heaters, incinerators, catalysts etc.

Sonic Cleaning does not only offer economical benefits, but also highly reduce the risk for stack fires.

- SCR: Sonoforce will keep them clean and efficient without eroding, cracking and pitting
- No mechanical or corrosive effect on tube surfaces
- Low maintenance cost
- Lower investment than steam soot blowers
- Will replace regular water washing, which means
  - No cost for port treatment of wash water!
- No accumulation of soot deposits, which means
  - No soot flakes on deck!



*Sonoforce IKT 230/175 (Audible sound)*



*INSONEX 200 G (Infrasound)*

## INSONEX 200 G

Air supply pressure: 0,4 - 0,7 MPa  
Air consumption: 230 - 390 l/s  
Max temperature:  
End piece: 800°C  
Valve unit: 60°C  
Power consumption:  
Solenoid valve: 24V DC / 14VA  
Material:  
Resonance tube: galvanized steel  
End piece: stainless steel  
Air connection: R 1 1/4" pipe thread  
Weight: 100 kg

## Adjustable frequency for maximum control

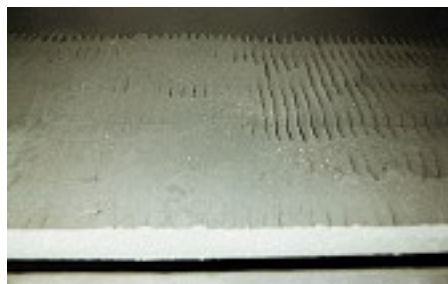
With the MK III v2 Conrol Unit you can adjust the frequency from 10 Hz to 25 Hz. It is also possible to adjust the activation time and the pause time. Mains input: 230 V AC or 115 V AC  
Output: 24 V DC, maximum four individual groups



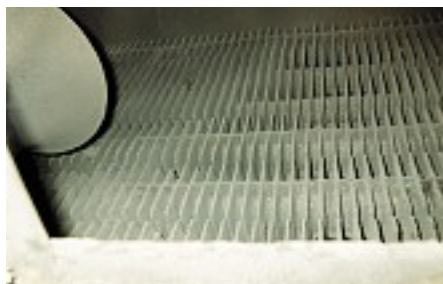
## IKT 230/175

Frequency: 175 Hz at 20°C  
Sound Pressure Level (1m): 150 - 152 dB  
Feeding pressure during signal: 0,5 - 0,6 MPa  
Air consumption during signal: 80 - 100 l/s  
Max. temperature:  
Horn, stainless steel: 1000°C  
Horn, steel (option) : 500°C  
Diaphragm housing: 500°C  
Solenoid valve: 80°C

Air connection: Pipe thread 1"  
Air supply piping: Min. 1", up to a maximum pipeline length of 10m for single sound emitter  
Voltage for solenoid valve: 230V AC (115V AC, 24V DC on request)  
Weight: 57 kg



*Economizer, after one month process without Sonic Cleaning*



*Economizer, after one month process with Sonic Cleaning*



*SCR, after six months process without Sonic Cleaning*



*SCR, after six months process with Sonic Cleaning*

## A worldwide organisation

Kockum Sonics AB serve our customers through an international network of subsidiaries and representatives that operate on a solid base of resources and professional experience.

 **Kockum Sonics**  
www.kockumsonics.com

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