Cleaning

Ultrasonic Cleaning System

CHRIS-MARINE®
UCS small range

Our range of small compact Ultrasonic cleaning systems fit in anywhere and ensure highly effective onboard cleaning of smaller engine parts.
Four versions available.



Product features

- Patented energy frequency sweeping system to maximise ultrasonic efficiency
- Cleaning of smaller engine parts, such as valve spindles, fuel injectors, filters etc.
- Quick and efficient cleaning
- Extends lifetime of cleaned parts
- Rinse the engine parts with environmentally friendly cleaning liquids compared to conventional chemical cleaning liquids

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Cleaning system details

The stainless steel cleaning tanks are ultrasonically driven by transducers which generates ultrasound waves that vibrate the cleaning fluid at very high velocity, creating the cavitation process. Millions of tiny bubbles implode within the solution and penetrate into every orifice of the item being cleaned, removing dirt and grime within seconds.

The transducers are produced according to a unique patented design that minimises cavitation erosion and provides high energy allround cleaning, operating at a frequency of 30 kHz +/- 2.



Powerful generator system

The system features unique ultrasound "bar" transducers opposed to "cone" transducers, resulting in 50% greater contact area with the outside surface.

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 directs energy directly into the transducers.

Optional accessories:

Oil Skimmer

External Oil Skimmer to assist with the removal of oil contamination from the system with integrated diaphragm pump and complete with flow and return ports. By using the oil skimmer you obtain even better cleaning results.



Ultrasonic Cleaning Chemicals:

Ultra Rinse Engine

A high alkaline detergent for the most challenging cleaning tasks. Ideal for cleaning steel, stainless steel and cast iron components that are highly exposed to heavy fuel oil or where removal of fuel, coke, soot or paint is needed.

Ultra Rinse Intercooler

A high alkaline product that is suitable for all types of metals including aluminum, titanium, brass and copper, thus enabling efficient cleaning of intercoolers and turbo parts.

Ultra Rinse Descale

An acidic liquid concentrate based on highly efficient surfactants and inhibitors. Used for the removal of lime scale as well as iron-, carbon- and oil carbon deposits from engine parts.

Technical specifications

	UCS60	UCS75	UCS90	UCS126
• Overall dimensions (LxWxH mm)	600 x 400 x 600	700 x 600 x 450	700 x 600 x 500	800 x 700 x 500
• Internal dimensions (LxWxH mm)	500 x 300 x 400	600 x 500 x 250	600 x 500 x 300	700 x 600 x 300
• Tank capacity (litre)	60	75	90	126
• Working tank capacity (litre)	52	60	75	105
• Transducers (no.)	8	8	12	24
• Ultrasonic power (peak Watt)	800	800	1200	2400
• Full power consumption (kW)	1.4	1.4	1.6	2.2
• Power supply	220-240 V 50-60 Hz	220-240 V 50-60 Hz	220-240 V 50-60 Hz	220-240 V 50-60 Hz
• Equipment weight (kg)	15	18	20	25
• Max load weight (kg)	30	30	30	50

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