



**ACHIEVE NEW LEVELS
OF UNDERWATER
CLEANING SAFETY...**



CAVIBLASTER[™]
UNDERWATER CLEANING SYSTEM

**AND NEW LEVELS
OF CLEANING
EFFICIENCY.**



CAVIBLASTER[™]
UNDERWATER CLEANING SYSTEM

Welcome to the world of high-tech underwater innovations

Introducing CaviBlaster™

CaviDyne™ has developed a uniquely new and innovative method to remove fouling that is cost effective and completely safe. The revolutionary CaviBlaster™ system harnesses and controls the power of ultra cavitation. Operators can now clean underwater surfaces with one pass while not releasing any harmful toxins from coated surfaces into the surrounding waters.

Utilizing Ultra Cavitation for Superior Safety and Results

The technological basis of the invention is the physics of hydrodynamic cavitation. The CaviBlaster system generates high-energy cavitation in a controlled manner. This directs the energy released during cavitation to perform work.

Unparalleled Safety for Operators

The systems operate at the relatively low pressures of 1,600 – 3,500 psi. Even at these pressures, because the water stream is cavitating, there is no danger of harm to the operator if contact is made with the cavitation stream. In fact, divers routinely place their hands directly in front of the cavitation nozzle to demonstrate the safety of the CaviBlaster system. The systems are balanced with a zero-thrust gun so that operator fatigue is minimized and there is less repetitive motion or stress trauma.



Feed system

Unparalleled Productivity

Compared with conventional mechanical cleaning, the CaviBlaster system is much more productive when cleaning heavy marine growth. The cavitation stream pulls material



Zero-thrust lances for diesel- and gasoline-powered units utilize proprietary cavitation nozzle technology.

from the surface being cleaned and is unaffected by the thickness of the growth on the surface. The debris cloud is greatly reduced, affording the operator improved visibility. This allows for continuous cleaning, saving both time and money.



Stainless steel pump and appurtenances

Divers who have used the CaviBlaster system believe it is a revolutionary advance in the field of underwater cleaning. These experts recognize the numerous advantages of the CaviBlaster system's cavitation cleaning over traditional methods in providing safer and more productive tools for underwater cleaning, inspection and repair.

Unparalleled Cleaning Performance

The CaviBlaster system outperforms traditional high-pressure methods by every measure. The major industrial application is to clean underwater surfaces using the forces of cavitation. The device removes unwanted marine growth from ship hulls, concrete structures, steel structures or, at higher pressures, coatings such as paint, varnish or anti-fouling coatings. Another advantage of using the CaviBlaster system in underwater cleaning is that it leaves a smooth surface. Cleaning by mechanical devices or pressure blasting leaves a textured surface, in which micro-organisms flourish. This accelerated regrowth of marine organisms will actually create the need for more frequent cleaning. Any marine growth that remains following conventional methods of cleaning is disinfected when using the CaviBlaster system.



Air starter



CAVIBLASTER™
UNDERWATER CLEANING SYSTEM

The Systems are easy to use and have substantial advantages over current technologies

- Increased safety. The water stream will not inflict damage to unprotected skin.
- Easy to use. No re-training is required.
- All types of marine growth from seaweed to hard, well-attached barnacles, are easily removed with only one pass, saving operators time and money.
- Effective on all types of surfaces including steel, concrete, wood, plastics, rubber and fiberglass.
- Surfaces can be cleaned without disturbing paint, varnish, or anti-fouling coatings and releasing heavy metals or other contaminants into the water when using low pressure.
- The systems can use either fresh water or sea water.
- The cavitation flame leaves a smooth surface that retards biological growth and decreases cleaning frequency.
- The systems range from small, compact and lightweight to larger units that are capable of removing coatings and cleaning to bare metal when used at high pressure.
- The pistol grip nozzle system is compact, enabling complex geometrical surfaces to be easily cleaned.



CaviBlaster units are available with your choice of gasoline, air-cooled diesel, or water-cooled diesel power. For current models and specifications, visit: www.cavidyne.com.



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Yanmar diesel power

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