

Centek are a world-renowned American manufacturer of fire-retardant GRP exhaust components, who have built a reputation for superior quality, design and customer service for over 50 years.

They offer an extensive range of mufflers, waterlocks, check valves, gas and water separators, outlets and exhaust pipe connectors tailored for use in marine wet exhaust systems.

Alongside their vast, standard range of products, they also offer the option to design and build bespoke components to suit personal requirements. All of their products are manufactured to meet ISO9001 specifications.

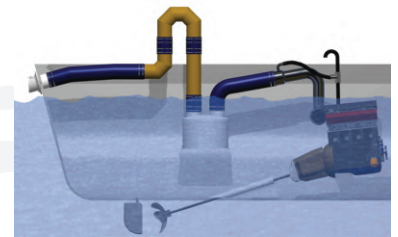
What sets them apart from the rest, is the high temperature resin they are coated with in the manufacturing process, capable of handling overheating up to 177°C, this gives added piece of mind that there is less chance your exhaust will be damaged, in the event of a cooling system failure.



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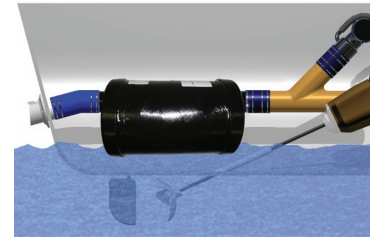
Waterlock Mufflers

These were originally designed for sailing boat installations where the engine is located near or below the waterline, to prevent water from the exhaust system feeding back to the engine and entering the manifold. However, when the quieting capabilities of these units was recognised, they were also commonly used in all types of engine installation to muffle the sound of the exhaust creating a more pleasurable boating experience.



Mufflers

These units are designed to reduce exhaust noise in almost any application, from ski boats to commercial vessels, with the added advantage that they are a more compact unit, ideal for when space is limited and provide excellent sound deadening performance. They can only be installed on applications where the engine is located above the water line.



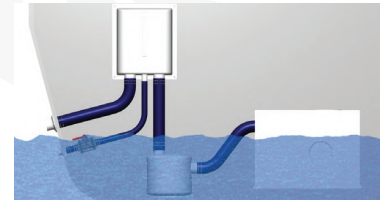
Check Valves

Designed to be fitted towards the end of the exhaust system to prevent water entering the engine from waves hitting the stern of the boat. Another excellent component to add piece of mind when motoring or sailing at sea.



Gas & Water Separators (Gen-Sep)

The Gen-Sep units are designed to prevent noise from water splash out of the exhaust, the gas and water are separated leaving the gas to exit silently above the water line and the water exits below. These should be used in conjunction with a Centek Vernalift muffler and are ideal to eliminate the noise of water splash from generators or engines on an overnight mooring.



Hose Connectors (Vernatubes)

Centek also offer an extensive range of fire-retardant GRP exhaust tubes, to give you the freedom of setting up your exhaust system around the tight spaces of the engine room, from straight 1.5 or 3 metres lengths to 45°, 90° & 180° elbows, there is a solution to almost every application.



Why a GRP wet exhaust muffler and which one is best for you?

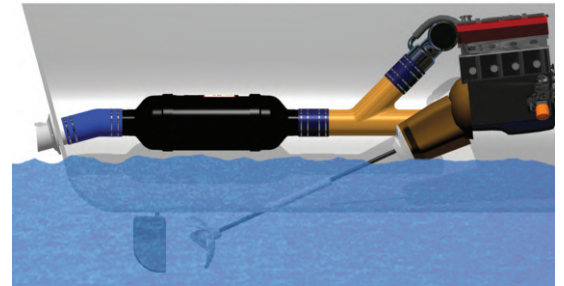
One of the advantages of using GRP is the maximum operating temperature of 177°, when compared to a typical plastic muffler which has a max or around 70°. As the GRP is able to handle higher temperatures it becomes less likely for you to burn out your exhaust muffler if the exhaust is starved of water due to a bag being sucked up the raw water inlet, or if an impeller fails. They are also very cost effective and resistant to salt water, so they won't corrode. There are many variations for GRP exhaust mufflers - waterlocks, which Centek have developed and patented since the late 1960's.

However, this article will look at the Vernatones (inline mufflers) and Vernalifts (water locks).

Vernatone Inline Mufflers

These are the original GRP water cooled marine muffler and have been used by boat builders for over 40 years. They offer good sound reduction and are designed for installation above the water line, as the installation shows to the right.

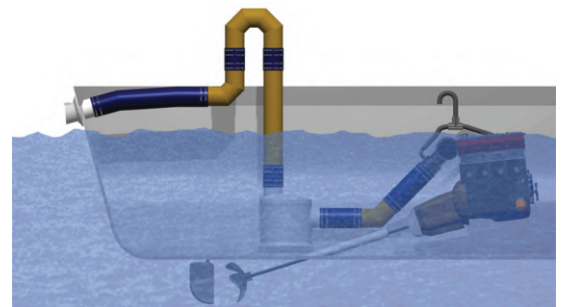
The mufflers are best slightly angled down towards the transom to aid water flow once the engine is turned off.



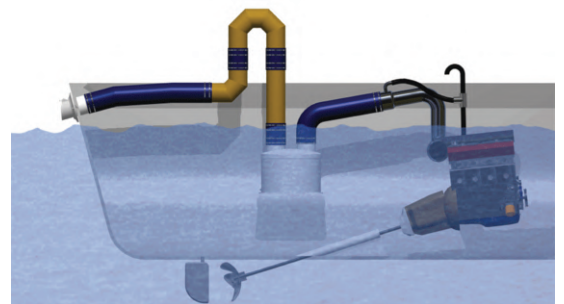
Vernalift Water Locks

These give a slightly better sound reduction than the Vernatones and are designed to be installed at the lowest point of the exhaust system, so when the engine is turned off all the water in the exhaust system will be forced to collect in the Vernalift.

The outlet hose should continuously run slightly down hill for self-draining and you are also able to add a Vernatone in this run for further silencing. The Vernalifts have many variations and can be installed above or below the water.



All GRP exhaust components we offer are made by Centek, the pioneers of GRP water cooled marine mufflers. Due to GRP being so versatile, Centek are also able to offer bespoke units capable of coping with engines to 2500BHP. Centek components meet most certifications, including UL Listed, ABS, ABYC and Lloyds Register.



If you require any assistance or further information to help you identify the most suitable components for your exhaust system, you are welcome to contact us.