



XFlow<sup>®</sup>

Full Protection System

For machinery spaces

SAVE TIME AND MONEY, SPACE AND MAINTENANCE

## CHOOSE XFLOW® FULL PROTECTION SYSTEM

XFlow® Full Protection System is a state-of-the-art and highly efficient water mist system with the possibility for integrating full and local fire fighting protection in a single application. This makes the system ideal for fire fighting in for instance engine rooms on cargo ships, cruise ships, ferries, yachts etc.

The central feature of the XFlow® system is its unique water mist nozzle, which spreads a combination of fine water drops and water mist when activated. This ensures a quicker and more reliable extinction of engine room fires than any other system can offer.

With the XFlow® Full Protection System, you will get the ultimate solution in this price range – a very reliable and competitive fire protection system based on the newest technology in this product area. It gives you a number of advantages not offered by traditional sprinkler systems, for instance:

- Space saving and a minimum of maintenance
- Higher safety level
- Saves time & money
- Low water consumption



# THE XFLOW® TECHNOLOGY

## FULL AND LOCAL FIRE FIGHTING PROTECTION IN A SINGLE APPLICATION

The XFlow® Full Protection System provides the possibility for full and local fire-fighting protection in one and the same system. This means you only need to invest in parts and supplies once.

Designed for large rooms, XFlow® soaks the affected area(s) with a penetrating mist that extinguishes the fire fast without any risk to the health of the crew or to the equipment.

The XFlow® Full Protection System is designed for protection in machinery spaces of Category A. It is suitable for use in engine rooms, turbine enclosures, paint booths, cable ducts, switchboard installations, and other enclosed spaces with limited draft conditions.

Custom-made pump unit for XFlow® Full Protection System for a cargo ship.



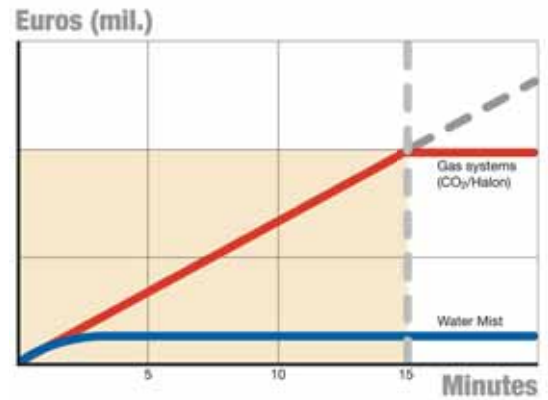
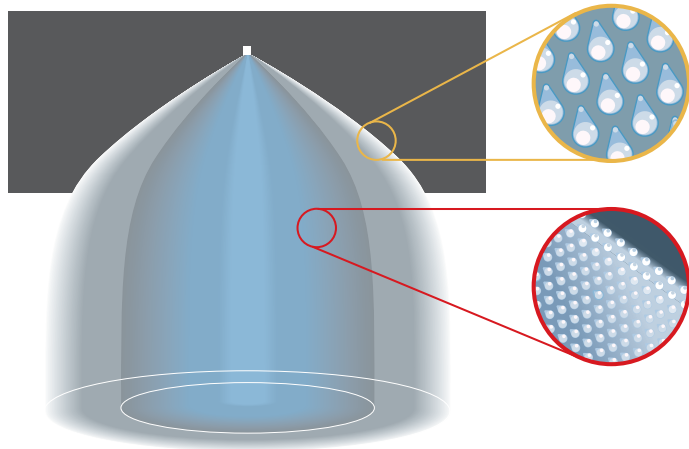
**SAVE TIME AND MONEY**

When choosing a fire-fighting system, it is useful to remember this statistic from the insurance industry: On average, engine room fires cause damage of approx. €135,000 per minute.

Since it takes about 15 minutes to evacuate an engine room – a necessary first step when using gas or foam – you are looking at a potential € 2 million loss with such systems before you even begin controlling the flames. Early response is one of the key advantages of XFlow®. Unlike protection systems based on gas or foam, it can be activated instantly, saving precious time and money. It only takes a few seconds from the fire breaks out until you are back in control.

**SAVE MONEY**

Marine fires cause damage of approximately € 135,000 per minute, making the 15 minutes it takes to evacuate an engine room – a must when using gas or foam – a costly delay.

**XFLOW® TECHNOLOGY**



# ENJOY THE BENEFITS OF XFLOW® FULL PROTECTION SYSTEM

## SPACE SAVING AND A MINIMUM OF MAINTENANCE

While CO<sub>2</sub> and foam require extra equipment and space for tanks or bottles, XFlow® uses the water you already have in your freshwater tank. No special rooms are needed to install or use the system. This increases the productive space available to you and gives your naval architects more design freedom.

There is also less maintenance. Unlike gaseous systems that require extensive control due to their hazardous nature, water-mist systems are user-friendly.

Your crew need not spend valuable time on checking the system's condition.

## LOW WATER CONSUMPTION

The water mist head has fire suppression and water distribution capabilities similar to those of high-pressure systems – this means minimal water damage and a minimum of clean-up costs.

## HIGHER SAFETY LEVEL

Designed to function in rooms of any size, XFlow® soaks the affected area(s) with a penetrating mist that extinguishes the fire quickly – but unlike gas or foam XFlow® will not harm either machinery or crew.

### NO DEDICATED STORAGE SPACE

XFlow® Water Mist System is user-friendly and requires less maintenance than gaseous systems and no extra storage space.



**XFLOW® LOW PRESSURE NOZZLE**

XFlow® low-pressure nozzles produce a fine mist of freshwater that extinguishes the fire without harming machinery or crew.

**INSTALLATION**

We offer an all-inclusive solution, complete installation and total approval.

Our partnership begins with a sales survey. Our engineers will come aboard your ship to map out your requirements, to see which equipment you need and what you already have on board. On the basis of our calculations, we will then draw up a budget for you. After this initial phase you can choose one of the following two solutions:

**THE ALL-INCLUSIVE SOLUTION**

This is a turnkey solution. We handle all equipment, installation and implementation – and we make sure you obtain all approvals necessary. In other words, we deliver the total solution – all you have to do is approve the budget.

**THE INDIVIDUAL SOLUTION**

This option offers you the opportunity to work together with the installation crew. We deliver all design, approvals and equipment exclusive of the pipes (however, these can be included if required).

In short, you choose and we tailor-make a solution that matches your needs.

**APPROVALS**

Over the years, Novenco's Fire Fighting division has developed several systems that have all been approved by several national marine authorities and awarded type approval by a wide range of classification agencies. Furthermore, Novenco's Fire Fighting division is certified according to ISO 9001 and the environmental management system is certified according to ISO 14001.



**More information about the XFlow®  
Water Mist System**

If you would like to know more about Novenco's XFlow® solutions, please contact our sales department for an informal conversation - no obligation.

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Production facilities  
located in Naestved,  
Denmark.





Novenco develops and manufactures ventilation and fire fighting systems that are marketed and distributed world-wide through subsidiaries and agents.

The company was founded in Denmark in 1947 and has become one of the worldleading suppliers.

Novenco symbolises quality and environmentally friendly products. The company is certified according to ISO 9001 and ISO 14001.

The headquarters of Novenco is located in Naestved, Denmark.

Novenco®, Hi-Pres® and XFlow® are registered trademarks of Novenco.

Read more about Novenco on [www.novenco.biz](http://www.novenco.biz).