

Fixed Local Application Fire-Fighting System

System Description

The FIXED LOCAL APPLICATION FIRE-FIGHTING SYSTEM remote operated, is a system using water when fighting fires. The system is designed and installed as a local application system to cover main and auxiliary engine top, boiler front, incinerator and purifier.

In many cases, the local application system extinguishes the fire and there is no need for activation of the total flooding system.

The water is distributed to the protected installation by nozzles placed above the protected object/area.

It is of utmost importance that the system starts immediately after the fire has occurred in order to reduce fire and heat damages. While local application system is running, the protected area is evacuated and decision made whether further steps are necessary with respect to extinguishment with e.g. portable equipment, or if the total flooding system shall be activated.



System Layout

The system is built up by the following groups of components:

The selector valve register:

The valve register contain distribution valves corresponding to the different protected installations. The valves are remotely operated from the main control panel centrally or from manual call points close to the protected object/area. The valves can also be operated manually.

The distribution piping with the nozzles:

From each distribution valve, the piping leads to the nozzle spread out in a grid pattern above each protected object/area. It is a dry pipe system, containing water solution only during operation.

The local application system is a low pressure system, using fresh water or sea water. The nozzles are equally spaced in a grid pattern and located in such a way that the high risk objects at the protected installations are covered.

The control panel:

The system is operated from a main control panel centrally and from manual call points close to the protected object/area. Activate the system for the respective object/area that is on fire.

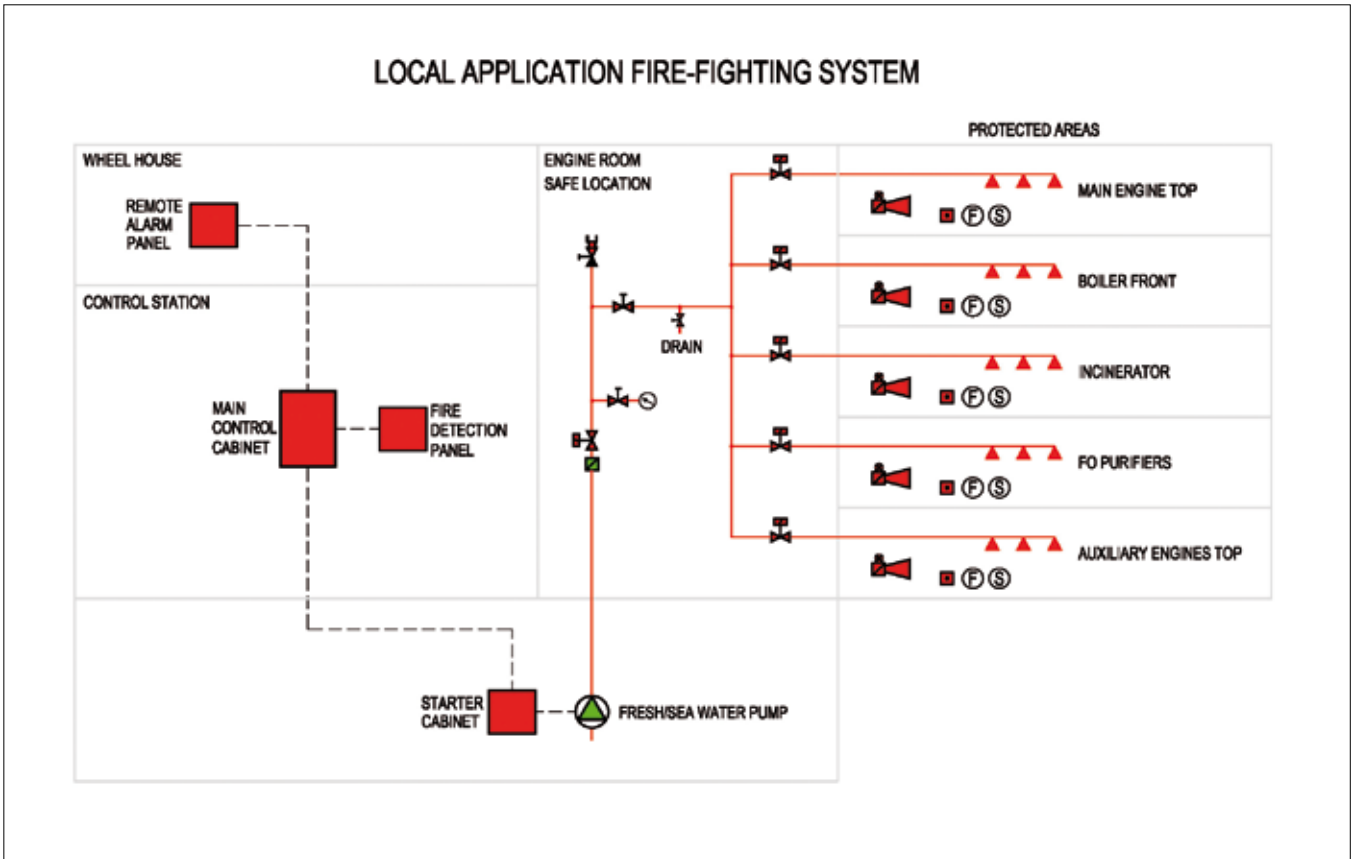
System Application

The Fixed Local Application Fire-Fighting System is suitable for installation on top of main and auxiliary engine, as well as for purifiers, and the burner of the incinerator and boiler.

The application is to cover and protect the respective installations and surroundings from major damages due to the extreme heat produced by the fire. It will also act as a protection to human beings, staying close to the installation, due to the cooling effect.



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Technical Data

Nozzle

Type	full-jet
Material	brass
Water cap. @ 4 bar (l/min)	39

Pump

Type	centrifugal multistage
Material	stainless steel
Voltage/frequency (V/Hz)	3x400/50 and 3x440/60 (or on request)
Insulation and enclosure	Class F, IP55