

## Easyfire® HFC227 - RINA Approved ISO 9094:2015 - EC Certified

### DESCRIPTION

The automatic extinguisher EASYFIRE® has been designed to have a very easy and quick installation way and to be in conformity with EN 15004 and NFPA 2001. This extinguishers can be installed and used to fight all class A B C fires.

EASYFIRE® unit is suggested to protect heater rooms, engine rooms, boats, inflammable deposit. A pressure switch will allow to check the charge, to close potential openings and to shutdown engines, generators, forced ventilation, or other permanently installed equipment which could compromise the discharge of extinguishing medium in the protected area.

If the fire extinguisher is located inside the space protected or if the activation of the fixed system is automatic, a visual indication of discharge outside the protected room shall be provided.

The visual indication must be chosen by Customer depending on the detection system specifications.

Automatic fire extinguisher EASYFIRE® are approved by RINA (Italian Naval Register) for small boats according to ISO 9094:2015 rule and PED by Bureau Veritas.

Extinguisher main components are:

- Automatic valve with bulb setted at 93°C (on request at 68°)
- Marine bracket
- Pressure switch
- RINA recognised extinguishing agent HFC 227 (known as FM200)

This automatic unit is specially designed for onboard engine boat, to protect fully automatically the engine compartment and or electric panels and mainframe



### DESIGN OF EXTINGUISHING AGENT QUANTITY

HFC is a gas for total flooding system, the volume showed in below table is referred to the engine room.

Compartment shall not have opening for ventilation

### WORKING PRINCIPLE

EASYFIRE® where the presence of personnel is not foreseen. Unit intervention is done by seal bulb rupture.

This bulb breaking could happen by one of following ways:

A) by temperature increasing during first period of fires, this will cause a bulb breaking and a consequent discharge of the extinguishing agent.

B) Other system for bulb breaking, on request, could be:

- a) by manual discharge control device (code 00.951E.5081.00)
- b) by using a pyrotechnical actuator (code 00.951E.5080.00)

EASYFIRE® with automatic glass bulb discharge valve are to be used in engine rooms.

In case of presence of people in the protected area the EASYFIRE® unit must be equipped with glass bulb not heat sensitive and with hand operated control only.

In case the unit requires maintenance, the system must be disconnected (even automatic or manual mode).

If the pressure gauge pointer is on red field it is necessary to call technical assistance to proceed with maintenance verifications

### INSTALLATIONS

The unit must be installed using its special support (included in the std supply) with sprinkler valve downward. Upon request a special horizontal execution could be supplied

Code	Charge (Kg)	Protected zone (m³)	Dimensions	
			Ø [mm]	H [mm]
60.951A.FQ00.00	1	1.7	110	370
60.951A.FA01.00				
60.951B.FQ00.00	3	5.1	130	390
60.951B.FA01.00				
60.951E.FQ00.00	6	10	160	465
60.951E.FA01.00				
60.951F.FQ00.00	9	15	190	600
60.951F.FA01.00				
60.951G.FQ00.00	12	20	190	600
60.951G.FA01.00				

On request it will be available even 2 and 4kg

### Legend

- FQ00 = Label (EN, FR, DE, ES)
- FA01 = LABEL (IT, EN)
- 00. = BULB 93 °C

## ACCESSORIES ON REQUEST - FIREKILL & EASYFIRE SYSTEMS

### TEMPERATURE DETECTOR

The apparatus consists of two contacts mounted on two curved strips of nickel-iron, the contacts are electronically isolated from the strips. The complex is in turn mounted in stress conditions in a sheath consisting of a tube extruded AISI.

The temperature at which the sheath is taken. Any change in temperature dilates the sheath, which thus increases the tension that it exerts on the plate, switching the contact, as appropriate



Preset at 141 °C - code P504.RV.038.00  
Preset at 68 °C - code P504.RV.019.00

### MINIBEND

Minibend for copper and aluminum pipe for ext. Ø 8 - 10 - 12 mm ideal to bend firekill pipes

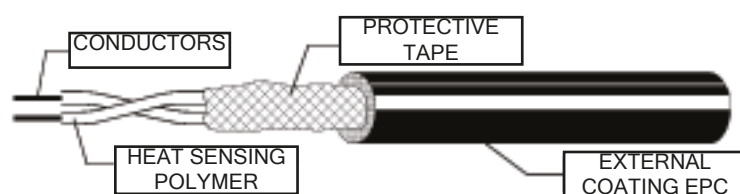


Code 28053

### THERMOCABLES

Linear heat detector, (thermocables) is a twisted double steel conductor cable with a special insulated sheath sensible to heat, wrapped with a protective tape, and overall surrounded with a special vinyl outer jacket (EPC) that has low moisture absorption, excellent resistance to UV radiation, and to a chemical agents (Gasoline, Ammonia, Methanol, Nitric Acid), and resistance to low temperatures (-40°C).

When intervention temperature has been reached, the insulation of the conductors melt down. Due to the twisted condition of the steel wires, there is the necessary mechanical strength to trigger immediately short circuit conditions



Fixing base for thermocables - code P504.RV.044.00

Code	Temperature	Approvals
47033	105 °C	-
47034	88 °C	UL/FM
47035	105 °C	FM
47036	138 °C	UL/FM
47046	68 °C	-

### CONTROL BOX

This unit is used in combination with Firekill extinguishing system for boat engine or electrical board. Led green indicates that circuit is operative. Red light indicates that the equipment has been discharged.

Alarm audible buzzer included in the units will sound when system has been activated. Remove safety pin lift, open door, press red button inside to activate discharge



Control box - code 23022