

How does the SOS Dan Buoy 33 Automatic Inflation System Work?

How UML Automatic Inflation System Works

Please also refer to UML website http://www.uml.co.uk/how_it_works.html

It is important that all users are aware of the type of inflation system fitted and how it activates.



- For automatic operation, a full CO₂ cylinder and a serviceable cartridge mechanism must also be fitted and not blocked from water entering the system.

We recommended checking the inflator before donning the SOS Dan Buoy (see service window on dan buoy) ensuring the CO₂ is not pierced and fully screwed in tightly by hand and that the cartridge mechanism has not expired and is fully screwed on tightly by hand.

Ensure the inflator is in good condition and not damaged and all indicators are present and correct.

The UML Automatic system activates when the cartridge mechanism comes into contact with water. The cartridge mechanism is a compressed high-powered spring which is held by a paper element. When the paper element comes into contact with water it releases the spring which pushes a plunger forward, in turn forcing a cutter into the CO₂ cylinder. The cutter allows the CO₂ to travel through the CO₂ gas hole in the inflator head and inflate the lifejacket.

The Pro Sensor[®] Automatic incorporates the added advantages of an indication system, that:

- Indicates the CO₂ Cylinder is pierced.
- Indicates the CO₂ Cylinder is correctly fitted.
- Indicates the status of the automatic cartridge.
- Indicates the automatic cartridge is correctly fitted.
- Replacement **UML** automatic inflation cartridge only (without CO₂ cylinder). This inflation cartridge triggers inflation of dan buoys with **UML Pro Sensor** inflation mechanisms. Replacement of this cartridge in your **SOS Marine** dan buoy is recommended every third year, but in heavy tropical climate, annual replacement is suggested.
- Please check the cartridge also has an **expiry date** and it has to be replaced prior to expiry.

