

# Fire protection

## AQ70 case study

Marine engine compartments, Hull, UK

### Project

Marine work boats, engine compartments

### Fire risk analysis

Diesel engine compartments on working boats. Confined spaces with a requirement for a fixed pre-piped CO2 system, operated manually. No automatic operation was needed, but a fixed remote release was specified.

### Further information

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### Solution

A calculation confirmed that 5kg of CO2 was sufficient for the volume to be protected in each engine compartment.

The AQ70 is based on a standard fire extinguisher cylinder, which is adapted to become a fixed cylinder with fixed pipe work, fitted outside of the engine compartment. A pull cable is attached to the cylinder valve and the pull cable handle located at a convenient remote point. When the handle is pulled, the valve is latched open and the entire content of the cylinder is discharged via the pipe work into the engine compartment.

This solution is a simple, reliable and low cost solution when a small fixed system is required. The extinguishing agent can be water-mist, foam, chemical powder, and CO2. FM200 clean agent can be supplied for special applications such as electronics.