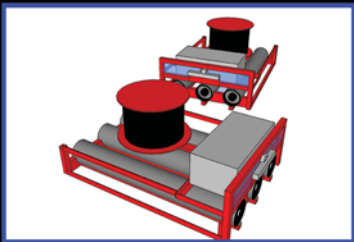


# JEWEL<sup>®</sup>

## FIRE SYSTEMS

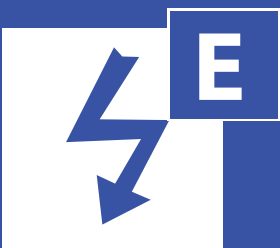
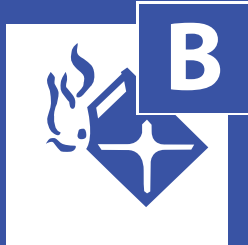
### R - SERIES



100% Environmentally friendly  
Low pressure Dry Mist System  
[www.JewelFireSystems.com](http://www.JewelFireSystems.com)



**Designed For:**



**Not Suitable For:**



# R SERIES

A unique rapid response vehicle based system, designed to combat all classes of fire. Ideal for highly populated areas with restricted access and remote locations.

## *NEW: Low Pressure Dry Mist Technology*

Based upon patented Dry Water Mist technology, the R-Series is a first response solution with sufficient fire fighting time and technology to not only extinguish a fire but also prevent re-ignition. The use of the Dry Water Mist ensures no flooding or collateral damage to the source area.



# Technical Summary

## Design & Specification

The R-Series system is a flexible, modular design and is specified by the following actions:

1. Analysis of required discharge time
2. Vehicle weight loading
3. Available mounting footprint
4. General vehicle specification restrictions
5. Understanding of usage, location and terrain
6. Consideration of optional extra i.e. stretchers, sirens etc

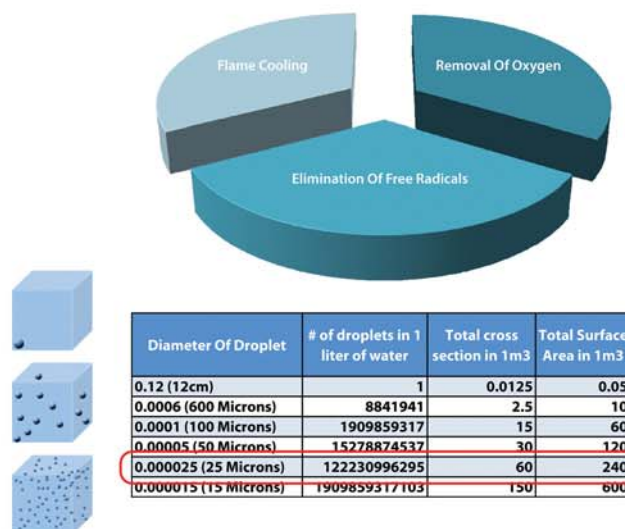
## Agents

### Low Pressure Dry Water Mist

Our unique patented Dry Water Mist operates at low pressure\*. Atomising water into billions of droplets from as small as 25 microns in size. Designed to maximise fire fighting time and using a minimum amount of water, the R Series reduces down-time and collateral damage. The NEW technology turns the water, through the Mist-System into fog; at the point of contact with the risk source, the fog turns to steam, evaporating and becoming dry in the event of a fire, significantly reducing damage to the risk area.

### Agent options:

- Foam



### \* System Mechanics

System specification range:	25-100 Micron
Overall system operating pressure:	4 Bar

# Technical Specification

Low Pressure Supersonic Water Mist Nozzle

25 to 100 Micron Dry Mist Technology



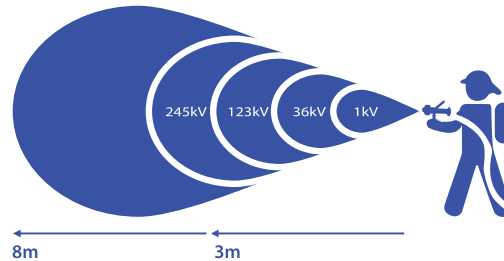
1 droplet  
(12cm)



1.90 billion  
(100 Micron)

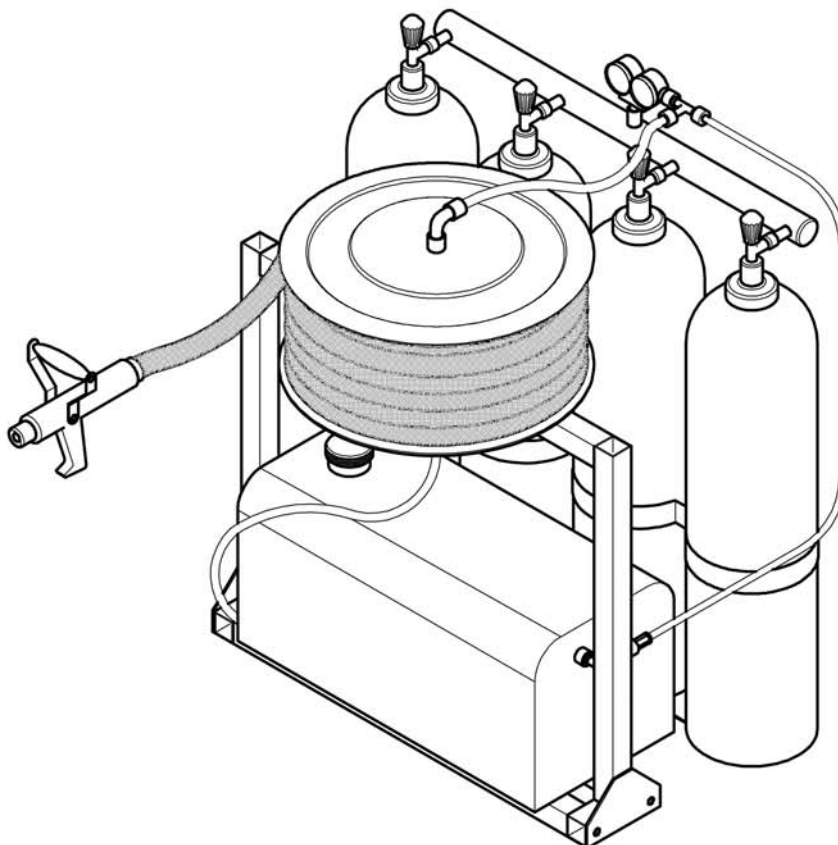


122 billion  
(25 Micron)



**System Activation:** upon manual activation the system releases compressed nitrogen into the hose and water tank; simultaneously driving water through the hose to the Super-Sonic Nozzle. At the point of discharge; Dry Mist is created extinguishing the fire and preventing re-ignition.

**System Integration:** The system can be fully integrated and retrofitted onto any vehicle or as a stand-alone skid mounted base.



*Please note this diagram is for example only; each system is designed specifically for the vehicle and application.*

## Installation & Maintenance



Installation is completed by the manufacturer with the exception of skid bases systems which are supplied as completed modules.



Maintenance should be carried out in accordance with the manufacturer's warranty guidelines; which are defined according to the system specification. Refilling can be carried out by the system owner.

## Applications

Catering & Food Production Environments

Commercial and Public Buildings

Cultural & Heritage Protection

Hazardous & High-Risk Environments (Chemical)

Hospital & Healthcare Environments

Marine & Offshore Applications

Mechanical, Machinery & Production Environments (Industrial)

Specialist Power and Energy Generation Facilities



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