

M77 Fuel Additive Injection

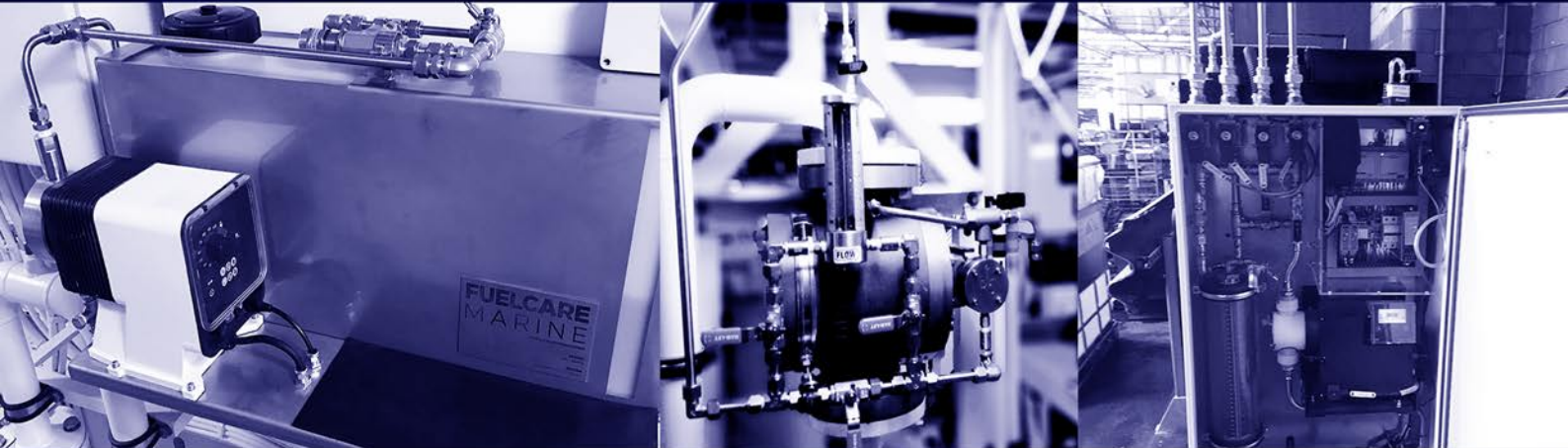
M77 Fuel Additive Injection Systems provide users with the continuous application of fuel additives in high volume refueling operations. Our **M77** systems are compatible with all fuel specifications, a wide range of flow rates & fuel pressures and can be tailor made to suit your specific installation.

M77 Fuel Additive Injection System

Fuelcare provide additive injection systems CAD designed, fabricated & tested at our engineering workshops in the UK. Designed for the application of fuel additives in high fuel volume bunkering operations aboard superyachts, railway terminals, bus terminals and any application where fuel volumes warrant ongoing large-scale fuel dosing.

The systems are compatible with all specifications of hydrocarbons (including aviation fuels), a wide range of flow rates and a broad spectrum of fuel pressures. The M77 systems dispenses fuel treatments in a steady, rate ensuring consistent agitation with fuel.

The **M77** comes in two formats; the '**M77 T**' (Turbine fuel-driven injection) and the '**M77 E**' (Electronic injection) using high specification Grundfos dosing pumps. Each is used in different applications based on flow rates, dosing rates, power availability and cost.



Why use a dosing system?

- ZERO** fuel quality issues. Highly precise dosing ensures complete fuel protection & uninterrupted fuel usage.
- ZERO** wastage. Precision blending ensures economic long term application of fuel treatments.
- ZERO** human error. Operators not required ensuring under/over-dosing is avoided.
- ZERO** chemical exposure. Systems are designed so operators are not exposed to hazardous chemicals.



M77 E - Superyacht Fuel Biocide Injection System

Applications for the M77

The **M77** systems are suitable for use with all middle distillate fuels including Diesel, Gas Oil, Petrol, Heating Oil, Biodiesel, Jet A-1 & Fuel Emulsions. The **M77** systems have been used for over 20 years in a wide range of industries including Marine, Rail, Agriculture, Automotive, Home Heating, Power & almost any other fuel-using application when the need to treat fuel is critical to ongoing operations.

The systems are capable of dosing a wide range of industrial fuel additives including those with extremely hazardous safety classes. Storage systems complement the M77 including the design & fabrication of dosing pots, specialist tanks or simply provide feeds from an existing additive vessel. All systems are designed to provide chemical compatibility with the chosen product.



Existing users of the M77

The **M77 T** system has been used worldwide for dosing fuel treatments for over 20 years. The technology is the only trusted means of dosing aviation fuels with fuel treatments due to its inherent safety and reliability. Fuelcare promote use of the system mainly in the marine, bus & rail markets where fuel treatments have become increasingly important to the timely operations of fleets.

Our existing users include Southern Railway who dose both **Kathon™** FP 1.5 and **EcoClean™** HSDI products from Fuelcare into their fuel for complete protection against changing fuel specifications. Other customers include m/y Kibo & m/y Secret Superyachts (who use the **M77 E** electronic version). Fuelcare also provide the system to other Superyachts where the dosing of biocide protects fuel from the 'diesel bug' round the clock - irrespective of fuel specification, fuel provenance or storage procedures. The **M77 E** has also now been deployed with great success into rail & bus terminals across the UK, providing remote telemetry control & measurement of dosing & fuelling operations.

Monitoring & Support

The **M77 T** system can dose up to 4 additives simultaneously, giving insurance against other possible fuel issues (lubricity, stability, injector failures) that may arise in future as a result of changing fuel legislation. Electrical power or compressed air is not required; injection is produced solely from fuel pressure.

All systems are provided CE marked, ATEX (ATmosphères EXplosives) and PED (Pressure Equipment Directive) approved. Lloyds Registry approval is granted for marine applications. Systems are designed for 'fit & forget' operation. Options include remote monitoring of the injector & biocide, vertical flow & bypass pipework.

Our monitoring package is designed to work either by GSM data or satellite communication systems, allowing 24/7 global analysis of the **M77** system. The **M77 E** system also provides a measure of remote control; the ability to adjust dosing rates across dosing systems nationally within seconds, all done through a secure online website.

For a demonstration or more information on this feature please get in touch with Fuelcare directly.

Fuelcare is a private British company that specialises in improving fuel quality. Our head office & laboratory based in Shrewsbury, U.K., is dedicated to fuel engineering. All Fuelcare staff are members of the Energy Institute & IASH (Stability, Handling & Use of Liquid Fuels).



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