



 **FuelClear™ AIS**

Additive Injection Systems

Applications for fuel terminals, forecourts, marine vessels & transport hubs

## FuelClear AIS

FuelClear Additive Injection Systems provide users with continuous application of fuel additives in high volume refuelling operations. Utilising the latest in digital dosing accuracy our systems are bespoke for each application.

Our systems are compatible with all fuel specifications, a wide range of fuel flow rates, additive chemistries & fuel pressures and can be tailor made to suit your specific installation. All additive injection systems are CAD designed, fabricated & tested at our engineering workshops in the U.K. with deployment worldwide.

Primarily, the system is designed for the application of fuel additives in high fuel volume fuel operations in terminals, forecourts, aboard marine vessels, railway terminals, bus terminals and any application where fuel volumes warrant ongoing large-scale fuel dosing. The FuelClear Additive Injection Systems dispense fuel treatments in a steady rate ensuring consistent agitation with fuel.



## Principal Specifications

### Composition

A low-cost, robust and automated bespoke manufactured additive injection system for any high volume fuelling application, any fuel type, any additive chemistry.

### Applications

Terminals, Forecourts, Marine Vessels & Transport Hubs.

### Precision

1.5% of Set Point + 0.1% of Full-Scale Flow.

### Dimensions

Bespoke manufactured.

### Dosing Ratios / Pressures

0.0025 L/hr (Min 2 bar) to 200 L/hr (Max 4 bar).

### Pipework

0.25" DN8 – 8" DN200

## Engineering

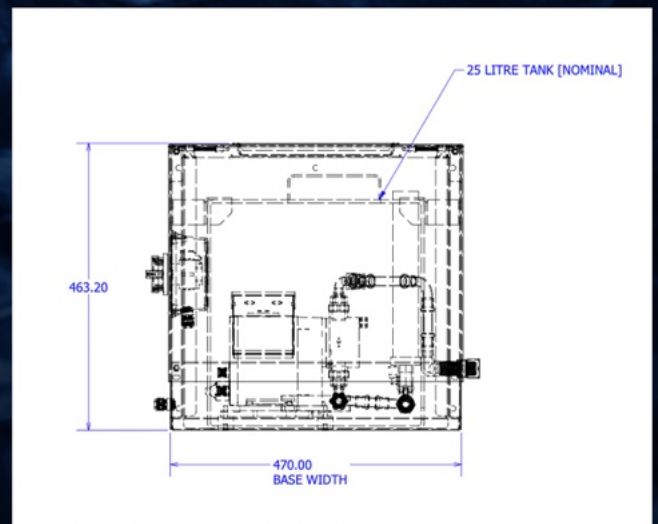
FuelClear AIS takes care of the complete engineering package for additive injection. The system is 100% automated with flow meters located in fuel lines that drive the digital additive dosing system.

The systems are designed to work with a wide variety of fuels, additives, flow rates & pressures and can seamlessly slot into existing fuelling operations.

The pipework, pumps, valves and fittings are designed for the highest tolerances, low corrosion and chemical compatibility with fuel additive chemistries.

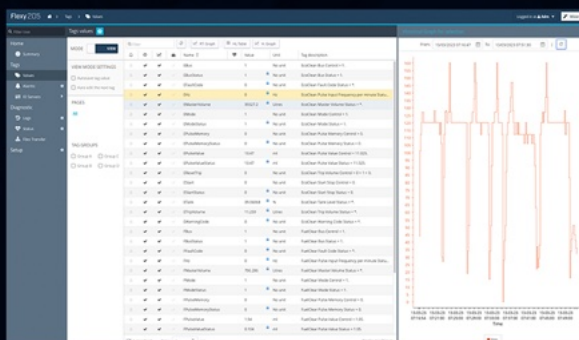
Fuelcare have over 40 years' experience in additive engineering solutions with systems deployed in the Far East, European, the Caribbean, the U.S. and the Middle East. The systems are engineered to be robust for each environment and deliver precision dosing of additives.

All systems are CAD-designed and manufactured at our 5,000 sq. ft. facility located in Shrewsbury, U.K.



## Data & Analytics

A key component in the system is the application of IoT (Internet of Things) technology to safely and securely dose additives in hundreds of locations automatically. This uses common technologies to monitor and control systems 24/7 using software bespoke designed by Fuelcare for additive injection applications.



These systems include tank levels, alarms (email/SMS), fuel delivery data, communication control, pressures, leaks and any other sensor available in the industrial sector. This can be fed into any corporate audit system via API and includes the ability to reorder stock in automated function.

## Experience & Approvals



Fuelcare have over 40 years' experience in dosing of chemicals with 15 years applying additives to fuel. This experience was a key factor in the invitation to co-write the Energy Institute document for standardising the additive injection systems for aviation.

Fuelcare now have built hundreds of systems for clients globally, from terminals to offshore platforms to forecourt customers.

FuelClear AIS systems are designed for the following approvals: CE Marked, PED approved, ATEX Intrinsically Safe. Lloyds Approval based on post-installation inspection. Components all approved to D.N.V. & A.B.S., B.V.



**Headquarters**  
Fuelcare Limited  
Stadium Point  
Shrewsbury  
SY2 6NE  
UNITED KINGDOM

Tel: +44 (0)1743 360784  
Email: [sales@fuelcare.com](mailto:sales@fuelcare.com)  
<http://www.fuelcare.com>

**Mediterranean Stock Point**  
Freedom Maritime  
c/o Fuelcare  
4 Av. Mirabeau  
06600 Antibes  
FRANCE  
+33 4 93 34 01 68

**North Sea Stock Point**  
Fjord House  
Aberdeen  
AB12 3AD  
UNITED KINGDOM  
+44 (0)1224 953784

