



# FLIGHTLINE SUPPORT LTD

## MKII MOBILE ADJUSTABLE ADDITIVE INJECTION SYSTEM



### GENERAL SPECIFICATION

The system has been designed to inject a variety of aviation fuel additives at any ratio between 50 and 300 PPM, whilst an aircraft is being refuelled. The injection system is powered by fuel flow through the positive displacement meter, which in turn drives the additive pump. A fail-safe system will stop the flow of fuel if the additive flow ceases.

### PRINCIPAL FEATURES

- Injection ratios can be easily adjusted by the operator. Without the need for re-calibration.
- Equipment is mounted on a robust stainless steel trailer with integral brake.
- Designed to inject additive at ratios between 50 and 300ppm.
- Fail-safe system stops the fuelling operation if the additive reservoir is empty.
- Weights and measures approved meter with calibration system.
- Dry break quick release couplings to minimise operator contact with the additive.
- Proven design offers safe and reliable operation.
- Integral drip-tray and drain valve.
- Pressure relief system
- Reduced size Air- transportable version available, complete with packing case, for use away from main base.

### MOBILE TROLLEY

The injection system and additive reservoir are mounted on a robust four-wheel trailer complete with towing frame and integral parking brake. The Additive containers are stored in a bunded area at the rear of the trailer. The bund is fitted with an integral drain valve.

The trailer frame is manufactured in stainless steel for maximum

resistance to corrosion and may be towed at speeds up to 12 mph.

### DESIGNED FOR USE WITH

- Kathon FP 1.5
- Biobor JF

### INJECTION SYSTEM

The control system is mounted in a stainless steel box protected by a 2" box steel frame. All components that may come into contact with the additive are manufactured from stainless steel, viton or PTFE. Designed to allow easy priming on initial start up and equipped with all the necessary fittings to allow for routine calibration.

### METERING PUMP

A positive displacement diaphragm pump with an adjustable stroke length is fitted. The stroke length is controlled by a 10-turn micrometer and is infinitely adjustable from 0 to 100%. Injection ratios are altered by re-setting the micrometer. The pump has been seized to deliver additive at increasing ratios up to 300 parts/million.

### METER

An Avery Hardoll BM950 positive displacement meter is fitted and provides the motive force to drive the metering pump. The meter is fitted with a single digit Veeder Root register. The input and output connections to the meter are Avery Hardoll CMY107M5L self sealing aviation couplings.

### AUTO CUT-OFF

A pneumatically operated spring return stainless steel ball valve is fitted to the input of the positive displacement meter. This valve will close down the flow of fuel if the control system detects no additive flow.

The fail-safe cut-off system will require a local supply of compressed air or Nitrogen to operate.  
A standard Nitrogen bottle can be accommodated on the trolley.

## **GENERAL STATISTICS**

Part No 115-01

1500mm L x 1000mm W x 1400mm H

System weight 340Kg

## **OPTIONS**

- Part No115-02 Closed circuit calibration jar. This allows the system to be calibrated without the need to dispense additive into an open container
- Part No115-03 Jumper hose. A 5 metre x 2 " C type aviation jumper hose complete with Avery Hardoll HU4000 or Cater 64200 couplings
- Part No115-04 Weather proof dust cover
- Part No115-05 Re-usable shipping crate

## **MAINTENANCE**

We offer a full service and calibration facilities.

Flightline Support Ltd  
Lakeside Industrial Park  
Cotswold Dene  
Standlake  
Witney  
Oxfordshire  
OX29 7PL  
U.K.

Tel +44 (0) 1993 776564  
Fax +44 (0) 1993 778953

**fsluk.com**