



MODEL SM600- RH1



HAMMONDS TECHNICAL SERVICES, INC.

fyt for your information...

A well-known Flight Demonstration Squadron approached Hammonds with a unique application. They needed a way to easily blend a Corrosion Inhibitor/Lubricity Improver into commercially available Jet A with FSII without having to contaminate the fuel suppliers fuel truck with an additive required for their high-performance aircraft. The system would need to be both compact and light weight. The system would be carried on a support aircraft to each airshow. Hammonds responded with a custom-built system using our Fluid Powered injector in order to satisfy all of the requirements of this very special customer.

Fluidpower PROPORTION to FLOW Additive Blending

The SM600-RH1 is designed specifically to deliver CI/LI in its native injection rate, a mere 9 – 24 ppmV. Hammonds Fluid Power delivers CI/LI proportionately across a 20 – 350 gpm flow range. Simply install the injector between the fuel truck and the aircraft to allow CI/LI to be blended directly into the fuel without contamination of the fuel truck. Using a unique 32 ounce additive bottle with custom siphon tube to keep things compact, allows up to 27,777 gallon of fuel to be treated.

INNOVATION—pure and simple
www.hammondscos.com

How Well Do We BLEND?

The SM600-RH1 is a wonderful example of how accurately Hammonds Fluid Powered systems can blend additive, even at the extremely low injection rates required by CI/LI. Using a mid-range setpoint of just 16.5 ppmV, every revolution of our additive pump delivers 0.0015 fluid ounces (0.044 mL) of additive in order to maintain the desired 16.5 ppmV set point. The higher the fuel delivery rate, the faster our pump turns, proportionately delivering the proper amount of additive to the fuel load.

Fuel Flow Rate	Desired ppmV	Injections per minute	Injections per SECOND	Volume of EACH injection
20 gallons per minute	16.5 ppmV	28	1 injection every 2 seconds	0.0015 ounces per injection
75		105	1.75 injections per second	
150		210	3.5 injections per second	
250		350	5.83 injections per second	
350		490	8.17 injections per second	