



ECLIPSE  
AVIATION

## PHOSTREX ADVANTAGES



The PhostrEx fire suppression system has been patented by Eclipse and is exclusive to the Eclipse 500. PhostrEx is superior to Halon systems in all respects.

### **More Effective**

Two teaspoons of the PhostrEx agent are equivalent to 2-1/2 cups of Halon. And it is proven to actually extinguish fires.

### **Lightweight**

Because of the effectiveness of the PhostrEx agent, the total PhostrEx fire suppression system weight is approximately 90 percent less than a traditional Halon system.

### **Low Maintenance Costs**

The PhostrEx fire suppression system is much less complex than Halon systems and is designed to be maintenance-free for 10 years. After 10 years, the PhostrEx agent canister is simply removed and replaced. In contrast, most Halon systems require recurring maintenance every five years. Overall life-cycle costs for the PhostrEx system are projected to be approximately one-tenth of a Halon system.

### **Proven in Extensive Testing**

Eclipse initiated a multi-million-dollar development effort in 2003 to prove the efficacy of the PhostrEx agent by testing it in nearly 200 actual fires identical to those that might occur in aircraft engines. A Fire Test Rig was designed and built to provide a platform to simulate engine-born fires. Eclipse is the only aircraft manufacturer to have an FAA-certified fire suppression system proven through actual fire testing.

### **Environmentally Friendly**

The PhostrEx agent has no ozone-depletion potential and contributes nothing to global warming. When the PhostrEx agent is released from its hermetically-sealed canister, it works in less than one-tenth of a second, combining with moisture in the air and quickly becoming inert. Because of this rapid reaction with moist air and surfaces, the agent cannot be transported to the stratosphere where ozone depletion could occur. In a fire, the PhostrEx agent decomposes 1,000 times more rapidly than Halon and undergoes three sequential losses of bromine atoms, which are the power behind this agent. These atoms catalyze suppression of the fire.