

# **TKS DE-ICE SYSTEMS . . .**

## ***for twin Commanders***

CAI is proud to offer TKS De-Icing systems for your twin Commander.

Porous, laser drilled titanium panels are installed on the leading edges of the wings, and horizontal and vertical stabilizers. A slinger ring is installed on the propeller and a spray bar is positioned on the windshield for protection. A glycol based fluid is exuded through the panels and flows over these surfaces keeping the aircraft virtually ice free.

The glycol based fluid is metered from a tank by a small electrically driven pump through a micro-filter to proportioning units. The proportioning units contain calibrated capillary tubes which apportion fluid to the individual panels and the propeller slinger ring. The windshield is protected with an on-demand pump and spray bar. A significant advantage for the pilot is the simple operation of the system. Just turn the system **ON** when icing is encountered and **OFF** when leaving icing conditions.



Only one choice exists for the pilot while operating the ice protection system: anti-ice or de-ice mode. In the anti-ice mode, a protective film of glycol prevents the formation of ice. In the de-ice mode, the glycol chemically breaks the ice bond. A significant feature of both modes is the elimination of run back ice.

The weight added to an aircraft as a result of the TKS ice protection installation is minimal. The TKS system weights approximately 40 lb without fluid (lighter than a rubber boot system, if one was available) and approximately 100 lbs with a full tank of fluid.

The attractive TKS system requires a minimum of upkeep. As the system is used, it flushes out any accumulation of debris on the panels. Glycol, the main ingredient of the ice protection fluid, has cleaning properties and will not harm the paint finish on the aircraft.

There is absolutely no loss in aircraft performance as a result of installing the TKS system, yet significant anti-ice and de-ice capabilities are added. Up to 3.0 hours of continuous anti-ice protection is possible with a full tank of ice protection fluid.



**For further details or a quotation call Gary Kromer at 888.881.5580.**