# ICE AND RAIN PROTECTION SYSTEM DESCRIPTION/OPERATION [A320]

**GENERAL**

The window and windshield anti-icing and demisting system is designed to maintain clear visibility through the cockpit front and side windows in icing or misting conditions. Windshields are de-iced, sliding and fixed windows are demisted.

**POWER SUPPLY**

Each Window Heat Computer (WHC), windshield and one-side window have its own power supply. The WHC is supplied with 28 VDC. The windows are supplied with 115 VAC, the windshield is supplied with a dual phase of 115 VAC.

**CONTROL**

The heating is cut off, when the three ground signals are sent to the AND logic. The windshield and windows are heated either when one engine is running or when the PROBE/WINDOW HEAT P/B is set to ON.

**COMPUTER**

Each WHC fulfils the monitoring of its system. It identifies and memorizes the faulty component. It also incorporates protection against overvoltage due to lightning strike and to static electricity on the windows. The WHC supplies independent temperature regulation between 35 and 42°C (95 and 107.6°F). Safety: heating is cut off if temperature reaches +/-60°C (140 or -76°F).

**USERS**

Each window comprises a heating element and two single loop sensors; one of the two sensors is a spare. Each windshield has a heating element and three loop sensors; one sensor activates the others.