



# Ice and Rain Protection & Control System Trainer

Model AID-100A



AID-100A Ice and Rain Protection System Trainer offers opportunity to trainees to physically see various components and connections in between them in real-life like mechanism. It brings together all aspects of deicing and rain protection system on aircrafts. AID-100A is manufactured with authentic aircraft components. It is mounted on movable four-wheeled frame that can be positioned as necessary

## Specifications

### Features

- Understanding fundamentals of aircraft Ice & Rain Protection & Control System and its components.
- Windshield heating system
- Pitot tube heating system
- The pitot tube is in a transparent protection area.
- Propeller blade heating system
- Slipping system for propeller principles is exhibited
- Drain heating system
- Pneumatic de-ice boot
- Windshield wiper system
- Windshield wiper is in a compartment with a transparent front part.
- windshield wiper is automatically spray alcohol to the surface.
- Water in windshield wiper compartment is accumulate to alcohol tank through drain line.
- The hose and tubes used in the trainer are labeled according to aviation standards.
- Wirings on the trainer are connected via terminals.
- Wires should have clear identification labels for each wire.
- All wires should be coded and labeled for troubleshooting.
- Instructor's panel for Fault Insertion
- The system mounted on a metal/aluminum mobile stand.
- Metal/aluminum frame with 4 wheels. 2 of 4 wheels are lockable.
- Training video for teachers
- Delivered fully assembled tested and ready to operate
- Colored Ultraviolet printing method on aluminum composite panel

## Components

- Lower EICAS or ECAM
  - Bleed valve status
  - Bleed line pressure
  - Fuel flow indicator
  - Switch Position
  - Valve status
- Bleed Control Panel
- Windshield wiper control panel
  - Off position
  - Park position
  - Low and High position
  - The text on the panel should back lighted like in aircrafts, not printed or stickers.
  - Panel should be independent of other panels.
- Window heat panel
  - Left side and forward control
  - Right side and forward control
  - The text on the panel should back lighted like in aircrafts, not printed or stickers.
  - Panel should be independent of other panels.
- Wing and Engine Anti-Ice control panel
- Windscreen Wiper
- Windscreen Wiper motor/actuator
- Windscreen Wiper Arm/blade
- Aircraft Window with heating elements
- Temperature control thermostat
- Window heating timer control box
- Windshield De-Icing Alcohol Dispensing
- Alcohol Pump
- Alcohol Tank
- Sprayer
- Pitot Tube with electrical heating elements
- Pitot tube heating timer control box

- Aircraft composite Propeller blade with electrical de-ice boot
- Propeller heating timer control box
- Propeller Slip-ring
- Pneumatic De-Ice Boot
- Pump for Pneumatic De-Ice Boot
- Drain with heating elements

## Documentation

- User's Manual
- Study Guide
- Instructor's Guide
- Components Diagrams

## Power Specs

- Electrical box
- Residual current device
- Emergency Button
- Energy Signal Lamp
- 110 VAC 60 Hz or 220-240 VAC 50 Hz