



## CLEAN EVAP™

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### ***SAFETY PRECAUTIONS***

- ***Keep out of reach of children!***
- ***Avoid skin and eye contact!***
- ***Wear safety glasses and gloves!***
- ***Avoid breathing vapor!***

### ***FIRST AID INSTRUCTIONS***

- ***If skin contact occurs, wash with soap and water.***
- ***If eye contact occurs, flush with clean water.***
- ***Seek medical assistance when in doubt.***

## **I. CLEAN EVAP**

### **Materials Needed:**

- 1 Bottle, 8 fl. oz./236ml, AirSept CleanEvap™
- 1 Ulti-Flex™ Applicator Tool Assembly
- 1 Air Line Quick Connect Fitting

### **Applicator Tool Kit Assembly:**

Attach a compatible air line quick connect fitting to the air gun.

### **General Application Instructions:**

When applicable, refer to the appropriate Airplane Maintenance Manual for model specific evaporator access . Generally, the following application instructions should suffice.

This procedure takes about 30 minutes. If this procedure is in preparation for application of AirSept's Cooling Coil Coating™ or AC Odor Shield™, **the evaporator must be thoroughly dried after applying CleanEvap** and prior to applying either these products. **Please note that**



**if you do not allow adequate time for drying, the coating product will not adhere to the evaporator surface. This means that you will have a comeback.**

1. Verify that the air conditioner drain hose is not clogged and place a drain pan beneath vehicle.
2. Verify that the plenum and evaporator leading edges are free of any debris.
3. Place a protective cover over the carpet below the evaporator.
4. Remove cabin air filter and cover the opening prior to applying AirSept® CleanEvap™, as the product may clog filter. (If cabin air filter appears to have little or no remaining useful life, suggest replacement to your customer).
5. If evaporator housing has a blower motor cooling tube, DO NOT TO SPRAY CLEANEVAP™ DIRECTLY INTO BLOWER MOTOR COOLING TUBE.
6. Use the Ulti-Flex™ spray tool to apply CleanEvap™ at 85 to 115 PSI and, for best results, within 0 to 2 inches from the surfaces to be cleaned. If skin contact occurs, wash with soap and water. If eye contact occurs, flush with clean water
7. APPLICATION METHODS:
  - A. Remove Blower Motor, see applicable service manual
    - i. Clean any debris from the plenum and evaporator surface.
    - ii. Apply CleanEvap directly to the evaporator through the blower motor opening.
    - iii. Use the flexible wand to direct product over the entire evaporator and surrounding gasket surfaces.
    - iv. When the application is complete, reinstall the blower motor.
  - B. Remove Blower Resistor/Fin Sensor Access Panel, (fig. 2) or see applicable service manual
    - i. Clean any debris from the plenum and evaporator surface.
    - ii. Apply CleanEvap directly to the evaporator through the blower resistor/fin sensor panel opening
    - iii. Use the flexible wand to direct product over the entire evaporator and surrounding gasket surfaces.
    - iv. Reinstall the blower resistor/fin sensor access panel, when the application is complete.
  - C. If neither of the previous two access options is available, drill a hole in the plenum.
    - i. Drill a ½" hole in the plenum chamber between the blower motor and the evaporator (fig. 3). (CAUTION: Keep drill clear of evaporator core and fan).
    - ii. With the vents closed and heat fan on HIGH, insert the tool into the hole and spray CleanEvap into the air stream toward the evaporator.
    - iii. Use a manufacturer-approved RTV sealant to plug the hole.



**iv. Wear protective clothing and goggles when using this application method.**

8. It is not necessary to rinse the evaporator after CleanEvap™ application but a rinse with 8 ounces of potable water will assist in flushing loosened contamination from the evaporator and plenum and cleaning of the tool.
9. Run the blower motor on HIGH to assist in draining CleanEvap™ and any loose contaminants.
10. Shut off engine.
11. After use, rinse Ulti-Flex with water to prolong the life of the tool. Be sure to spray water through the nozzle to rinse out any residual product still in the pick up tube to prevent clogging. Also, remove the small green valve from the bottle cap and rinse it thoroughly while rolling it between two fingers then reinstall it. If this valve is clogged, product will not flow through the tool.
12. Remove protective plastic coverings from inside the vehicle and remove the drip tray from the workshop floor.
13. Reinstall cabin air filter.
14. Note CleanEvap™ application date in service record sheet.

## **I. COOLING COIL COATING**

### **Materials Needed:**

- 1 Bottle, 4 fl. oz./118ml, AirSept® Cooling Coil Coating
- 1 Flexible Applicator Tool Assembly
- 1 Air Line Quick Connect Fitting

### **Applicator Tool Kit Assembly:**

Attach a compatible air line quick connect fitting to the air gun.

### **Application Instructions:**

When applicable, reference the appropriate Technical Service Bulletin for specific vehicle platform application Instructions for AirSept® Cooling Coil Coating. For all other vehicles, the following application instructions should suffice. The procedure takes about 1 hour, including drying and curing. However, actual labor only consumes, at most, 30 minutes.

**Please note that if you do not allow the proper time for drying and curing, the product will wash away with the condensate. This means that you may have a within two weeks.**

1. Verify that the air conditioner drain hose is not clogged and place a drain pan beneath vehicle.
2. Verify that the plenum and evaporator leading edge is free of any debris.



3. Place a protective cover over the carpet just below the evaporator.
4. Remove cabin air filter and cover the opening prior to applying AirSept® Cooling Coil Coating, as the product may clog filter. (If cabin air filter appears to have little or no remaining useful life, suggest replacement to your customer).
5. If evaporator housing has a blower motor cooling tube, be careful NOT TO SPRAY THE COOLING COIL COATING DIRECTLY INTO BLOWER MOTOR COOLING TUBE.
6. Remove A/C compressor fuse or unplug the connector to compressor clutch to ensure that the air conditioner's compressor will not engage. (Compressor engagement will cause the evaporator to remain wet, and prevent full adherence of the coating to evaporator surfaces.)
7. Start the engine. Take proper precautions for working on an aircraft with the engine running.
  - A. Set a/c mode to RECIRCULATE/MAX and heat and fan on high.
  - B. Open one window about ½”.
  - C. Run the engine for approximately 20 minutes then shut off. (In this mode you are running hot air over the evaporator and drying it.)
8. Shake the bottle of AirSept® Cooling Coil Coating well.
  - A. Screw the bottle onto the cap on the tool's pick-up tube. (NOTE: The pick up tube is designed for 4 and 8 ounce bottles and should coil slightly in the bottom of a 4 ounce bottle.)
  - B. Attach Ulti-Flex Pressure Spray Tool to a compressed air line operating at 85 to 115 psi.
9. USE ONE OF THE THREE FOLLOWING METHODS:
  - A. Remove Blower Motor, see applicable service manual
    - i. Clean any debris from the plenum and evaporator surface.
    - ii. Apply AirSept® Cooling Coil Coating directly to the evaporator through the blower motor opening.
    - iii. Use the flexible wand to direct product over the entire evaporator and surrounding gasket surfaces.
    - iv. When the application is complete, reinstall the blower motor.
  - B. Remove Blower Resistor/Fin Sensor Access Panel, (fig. 2) or see applicable service manual
    - i. Clean any debris from the plenum and evaporator surface.
    - v. Apply AirSept® Cooling Coil Coating directly to the evaporator through the blower resistor/fin sensor panel opening



- vi. Use the flexible wand to direct product over the entire evaporator and surrounding gasket surfaces.
        - vii. Reinstall the blower resistor/fin sensor access panel, when the application is complete.
  - C. If neither of the previous two access options is available, drill a hole in the plenum.
    - i. Drill a ½" hole in the plenum chamber between the blower motor and the evaporator (fig. 3). (CAUTION: Keep drill clear of evaporator core and fan).
    - ii. With the vents closed and heat fan on HIGH, insert the tool into the hole and spray Cooling Coil Coating into the air stream toward the evaporator.
    - iii. Use a manufacturer-approved RTV sealant to plug the hole.
10. Run the engine for approximately 10 minutes with the compressor disabled, mode in RECIRCULATE/MAX, heat and fan on HIGH, and open one window approximately ½". (This cures the product onto the evaporator's surface.)
11. While the engine is running, rinse the applicator tool with warm water to prolong the life of the tool. Be sure to spray warm water through the nozzle to rinse out any residual product still in the capillary tube, otherwise it will dry and clog the tool. Also, remove the small green valve from the bottle cap and rinse it thoroughly while rolling it between two fingers then reinstall it. If this valve is clogged, product will not flow through the tool.
12. Shut off the engine.
  - A. Reconnect the compressor.
  - B. Test A/C operation.
13. Remove protective plastic coverings from inside the vehicle and remove drain pan placed beneath vehicle.
14. Reinstall cabin air filter.
15. Note AirSept® Cooling Coil Coating application date in service record sheet.