

AIR CONDITIONING - GENERAL

1. Scope

- A. This chapter describes those units and components which furnish a means of heating, cooling and ventilating the cockpit and cabin/cargo areas of the airplane.

2. Definition

- A. This chapter is divided into sections to aid maintenance technicians in locating information. Consulting the Table of Contents will further assist in locating a particular subject. A brief description of the sections follows:
- (1) The section on distribution describes that portion of the system used to distribute fresh and heated air throughout the cockpit and cabin area.
 - (2) The section on heating describes those components used to generate (but not distribute) heat for the airplane.
 - (3) The section on cooling describes the freon air conditioning system used to generate and distribute cool air throughout the cockpit and cabin.
 - (4) The section on temperature control describes components used to control heat in the cabin area.

3. Tools, Equipment and Materials

NOTE: Equivalent substitutes may be used for the following listed items:

NAME	NUMBER	MANUFACTURER	USE
Primer	S4155	General Electric Silicone Products Dept. Hudson River Rd. Waterford, N.Y. 12188	Priming mating surface of instrument panel and inlet.
Sealant	RTV-102	General Electric	Sealant for air ducts.
Sealant	RTV-103	General Electric	Sealant used on compressor bleed air installation.
Clear Adhesive	A1186B	BFGoodrich 250 N. Cleveland Massillion Rd. P. O. Box 5501 Akron, OH 44318-0501	Resealing component parts in cabin air valves.
Sealant	GC-1900	Goal Chemical Sealants Corp. 3137 E. 26th St. Los Angeles, CA 90023	Sealant for heater and defroster valve flanges.
Stoddard Solvent	P- D-680	Commercially available	Cleaning.
Methyl n-Propyl Ketone		Commerically available	Cleaning.
Isopropyl Alcohol	Federal Specification TT-I- 735	Commercially available	Cleaning.
Silicone Lubricant	113A10010	Parker Hannifin Airborne Air & Fuel Products 711 Taylor Street Elyria, OH 44035	Lubricant for Bal-seals.
Sealant	Silastic E	Dow Corning	Used on diverter valves.
Primer	DC-1200	Dow Corning	Used in diverter valve reassembly.
Anti-Seize Compound	26316503	Parker Hannifin Airborne Air & Fuel Products	Used on bleed air flow control valve.
Sealant	RTV-157	General Electric	Used on diverter valves.

Refrigerant Oil (500 viscosity minimum)	Capella WF 100	Texaco Oil Company Box 1601 White Plains, NY 10650	Lubricate compressor, fittings and O-rings.
Refrigerant Oil (500 viscosity minimum)	Suniso 5GS	Sun Oil Company 1801 Market Street Philadelphia, PA 19103	Lubricate compressor, fittings and O-rings.