

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.