

KAPS II

Kollsman Autoschedule Pressurization System

With over 30 years of cabin pressurization experience, Kollsman has introduced a second generation Autoschedule Pressurization System (KAPS II), designed to answer the requirements of the modern, fully integrated Corporate, Regional, Very Light and Personal Jet aircraft market. KAPS II automatically provides for the most comfortable cabin environment possible.

The Kollsman KAPS is designed to minimize cost, weight, and panel space. This is accomplished with a 100% solid-state autoschedule controller. The autoschedule controller simplifies management of the pressurization system and significantly reduces pilot workload, and reduces cost and maintains high reliability. System maintenance and testing are facilitated with on-aircraft diagnostic capability, which assists in isolating discrepancies to the line replaceable unit (LRU) level.

Consists of:

1. KAPS II Autoschedule Controller:

- Maximum cabin comfort
- No integral display or pilot input controls required
- Interface via ARINC 429
- Can be installed most anywhere in the aircraft
- Offers high - altitude field operation capability (> 8,000 feet)

2. Outflow Valves:

- Safely regulate cabin differential pressure and cabin altitude
- Reduced weight
- Reduced parts count
- No electrical connection required
- Self-regulating; will maintain cabin altitude safely in the event of power loss

3. Optional Cabin Altitude Pressure Sensor:

- Provides an independent cabin altitude pressure reading to glass cockpits for display
- No panel space requirements
- Compact and light weight



Benefits:

- Comfortable cabin environment
- Assured aircraft and passenger safety
- Reduced pilot workload
- Simple installation and maintenance

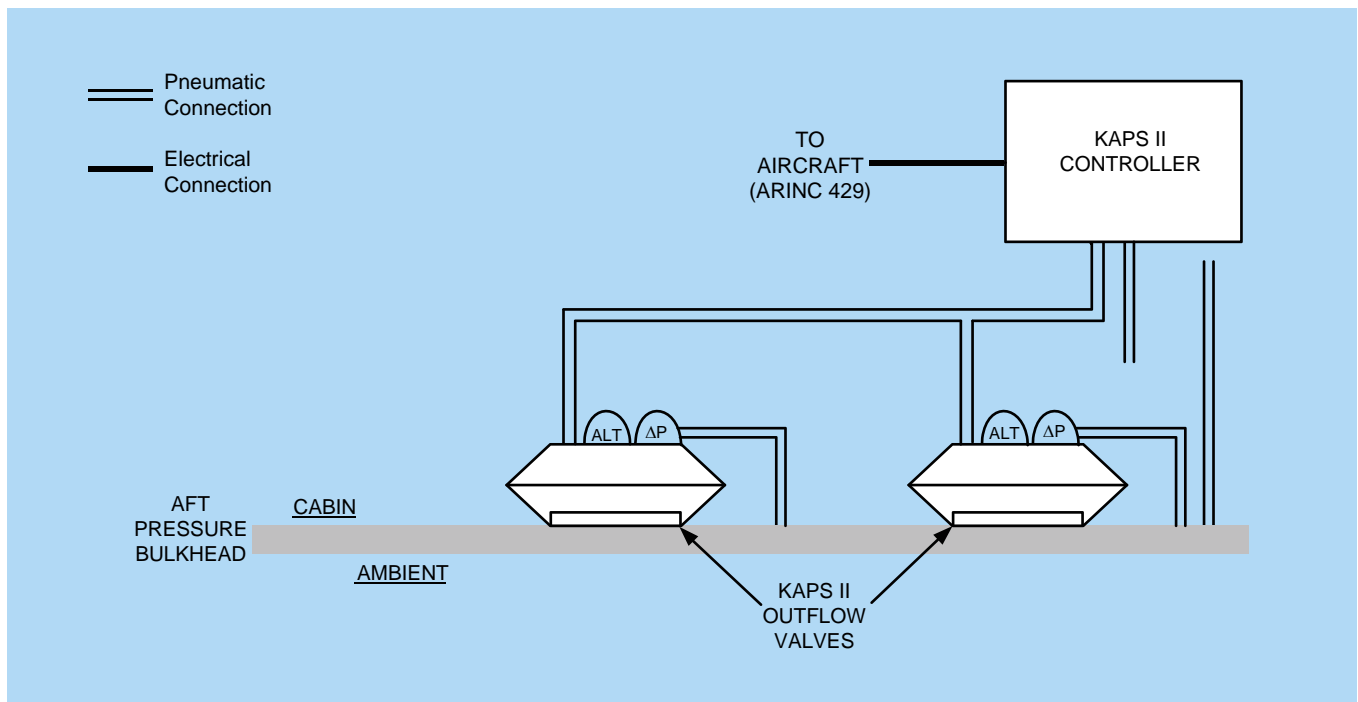
System Benefits:

- No bleed air required
- Lower cost, lower weight, higher reliability
- Cabin pressure smoothly regulated automatically
- System design based on field proven technology
- Fully backward compatible with existing KAPS I installations
- Interfaces easily with "next generation" aircraft displays
- Reduced installation & maintenance costs
- Reduced operating cost
- On-Aircraft Built-in-Test (BIT) diagnostic capabilities

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Technical Specifications

System Weight	<6 lbs (depends on installed configuration)
System Power	28 VDC aircraft power (<30W)
Cabin Pressure Range	-1,500 to 12,000 ft
Cabin Rate (climb)	Automatically controlled
Cabin Rate (dive)	Automatically controlled
Maximum Cabin Altitude	13,500 ± 1,500 ft (adjustable)
Maximum Differential Pressure	8.7 ± 0.1 PSID (adjustable)
Operating Temperature	-40°C to 70°C
Startup Temperature Range	-55°C to 70°C
Ground Survival Temperature Range	-65°C to 85°C
Certification Compliance	ARP 1270, Part 23, Part 25



Typical Aircraft Installation Configuration