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**From:** jeffrey E. <jeevacation@gmail.com>  
**Sent:** Sunday, June 28, 2015 9:52 AM  
**To:** lvjet  
**Subject:** ram air duct door. ? the adc controls valves. bad adc?? ?!

ACM and rotates in consonance with them. It provides cooling air flow across the primary and secondary heat exchanges whenever the air

conditioning unit is in operation. Air for cooling is delivered through the dorsal fin ram air inlet

inflight and through that inlet plus a flapper door in the refrigeration unit ducting on the

ground. All air is then ported overboard. The cooling fan cannot be individually controlled.

#### MAINTENANCE MANUAL

Included in the Environmental Control System (ECS) are two ACM bypass shut-off valves and

associated ducting. The ACM bypass shut-off valves are 1.5 inch nominal diameter valves

which allow airflow around the turbine section of the ACM whenever open. The unit receives

its signals from the air data computer which opens valves at an altitude of 42,000 feet or

greater and closes valves at an altitude of 40,000 feet or less. The valve is spring-loaded to

close in event of failure. The valve contains a

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