



## RWMI DHC-6 Freon Air Conditioning System For Legacy DHC-6 Twin Otter Series

### FACT SHEET

**PRODUCT:** RWMI DHC-6 Freon Air Conditioning System

**APPLICABILITY:** Viking de Havilland DHC-6-100, -200, and -300 Twin Otter Airplanes

**AUTHORIZATIONS:** United States (FAA STC No. SA7738SW); Canada (TC STC SA00-24)

**DESCRIPTION:** The RWMI DHC-6 Freon Air Conditioning system provides a ruggedized FAA Certified system to enhance passenger comfort in the cabin.

The compressor motor and condenser are located in the aft baggage compartment extension. The air intake and exhaust outlet for the condenser are incorporated in the sides of the aft fuselage.

An evaporator unit is located on the aft side of the FS332 bulkhead. Return air from the cabin is admitted through a grill in the lower part of the FS332 bulkhead located below the seats. Cabin air is cooled by the evaporator and then delivered through a register in the top of the FS332 bulkhead. This air is directed forward along the centerline of the aircraft.

The system is powered through the left DC bus and is protected by three circuit breakers. Two circuit breakers are located on the cockpit circuit breaker panel: one (1) for the air conditioning system and one (1) for the evaporator blowers. A separate circuit breaker for the compressor is located on the relay tray under the aft baggage compartment floor.

Two (2) control switches are located in the cockpit on the overhead console:

- One switch is marked FAN-OFF-A/C.
  - In the FAN position, both blower fans will recirculate cabin air with no cooling.
  - The OFF position removes all power from the system.
  - The A/C position switch activates both blower fans and the compressor motor for cooled air operation.
- The second switch changes the blower fan speed from high speed to low speed.

The blowers can be operated whenever there is power on the left DC bus. The air conditioning system can be operated if external power is connected to the aircraft and the engines are not being started, or if both generators are ON and functioning. During operation of the air conditioning system with power from the aircraft generators, an automatic load shed circuit will deactivate the compressor motor if either generator drops off line. The normal operating load with the air conditioning on is 120-amps with a normal load meter indication of .3.

The system weight is approximately 155 pounds (70.3 Kg).

*Information subject to change without notice.*

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