

Advisory Wire

I REFERENCE NO:	AW700-25-0776	INFORMATION TYPE:	Maintenance Operational
ATA:	25-10	EFFECTIVITY:	Global 7500 (70006 – 79999)
SUBJECT:	Appliances - Chiller Unit Performance		

1. REFERENCES:

- 1.1. Global 7500 AMP BD700-A-J24-00-00-00AAA-561A-A, Non-Thermal Circuit Breakers – De-Energize Electrical Network
- 1.2. Global 7500 AMP BD700-A-J24-00-00-00AAA-761A-A, Non-Thermal Circuit Breakers – Energize Electrical Network

2. INTRODUCTION:

This Advisory Wire is to inform operators that chiller unit performance on ground could be affected by the cabin ambient temperature when aircraft is operated in hot weather environment.

3. DESCRIPTION:

The chiller unit is thermally protected and is designed to operate at internal temperature ranging from 2°C to 46°C.

When the cabin entrance area ambient temperature is high, the temperature around the compressor may be higher and reach the upper internal limit. The chiller unit may stop cooling to prevent damages to the unit internal components. Subsequently, a chiller unit fault message “253APL0011 - Appliance Chiller Unit Temporary Failure” will be posted on the CMS Fault Message Center (FMC).

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4. ACTION:

Operators should be familiar with the following recommendations to optimize chiller unit performances and avoid fault messages.

- 4.1 Before every cabin power shutdown, the chiller unit should be de-energized thru the e-CB page, as per AMP procedure BD700-A-J24-00-00-00AAA-561A-A (Ref 1.1).
- 4.2 Bombardier recommends leaving the chiller unit to OFF during aircraft maintenance or parking, or after cabin power-up when the entrance cabin ambient temperature is not controlled (i.e. cabin ECS OFF).
- 4.3 At cabin power-up, when chiller operation is required:
 - 4.3.1 Make sure that the Environmental Control System (ECS) is operational and providing conditioned air to the cabin.
 - 4.3.2 Close the PAX door or the PAX door curtain when ECS is operating.
 - 4.3.3 Energize the chiller unit from the e-CB page, as per AMP procedure BD700-A-J24-00-00-00AAA-761A-A (Ref 1.2).
- 4.4 Bombardier recommends turning on the chiller unit only when entrance cabin ambient temperature has reached the targeted zone/cabin temperature.
- 4.5 If the CMS fault message “253APL0010 - Appliance Chiller Unit Fail” is displayed during preparation for flight, or after generator switching, the chiller unit circuit breakers can be cycled to restore chiller unit operation.

Bombardier is currently working on a resolution for this condition. Additional details on the corrective action will be communicated by further revision of this AW.

Should you have any questions pertaining to this AW or require additional information, please contact your Bombardier Field Representative (FSR) or Customer Response Center (CRC).