



SI-328-21-167

Title: ATA21 – Corona Virus - Cleaning Recommendations and Cabin Air Supply

Effectivity

Dornier 328-100
Type Certificate Data Sheet EASA.A.096
Serial No.: All Aircraft

Reason

The purpose of this document is to inform operators about current cleaning / disinfection recommendation regarding COVID-19 and 328 SSG guideline for cabin air supply.

Information

In order to reduce the risk on an infection of COVID-19 on board of the aircraft the following documents from national/international authorities have been issued:

	Date	Name	Dept.	Signature
Approved by CVE (leading ATA)	17. 03. 20	M. Kochs-Kämper	E	
Released by AOS	17. MRZ. 2020	C. Thallmayr	E3	

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The Design Organisation 328 Support Services GmbH is the TC-Holder of Dornier 328-100 and 328-300 and authorised to provide necessary approved data under the privilege of EASA approval number EASA 21J.438.

It is the operator's responsibility to comply with the relevant aviation regulations of the country in which the aircraft is registered.

- (1) Coronavirus 'SARS-CoV-2' Infections – Operational Recommendations
EASA Service Information Bulletin: SIB 2020-02 (and their revisions)
<https://ad.easa.europa.eu/ad/2020-02R2>
- (2) Guide to hygiene and sanitation in aviation – Third edition
Chapter 3
https://www.who.int/water_sanitation_health/publications/aviation_guide/en/
- (3) Interim guidance for environmental cleaning in non-healthcare facilities exposed to SARS-CoV-2 – ECDC TECHNICAL REPORT
<https://www.ecdc.europa.eu/sites/default/files/documents/coronavirus-SARS-CoV-2-guidance-environmental-cleaning-non-healthcare-facilities.pdf>
- (4) List N: Disinfectants for Use Against SARS-CoV-2
United States Environmental Protection Agency
<https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>

Cleaning / Disinfection

If disinfection is required, 328SSG recommends applying procedures given in (1),(2) and (3) by using disinfectants acc. to publications (3) and (4).

For painted interior surfaces, disinfectants are recommended which are alcohol based:

Ethanol min. 70%, Isopropanol (IPA) min. 50%

Commercial products e.g.:

- LYSOL 777-99
- LYSOL 777-127
- PEAK 88494-3
- PEAK 88494-4

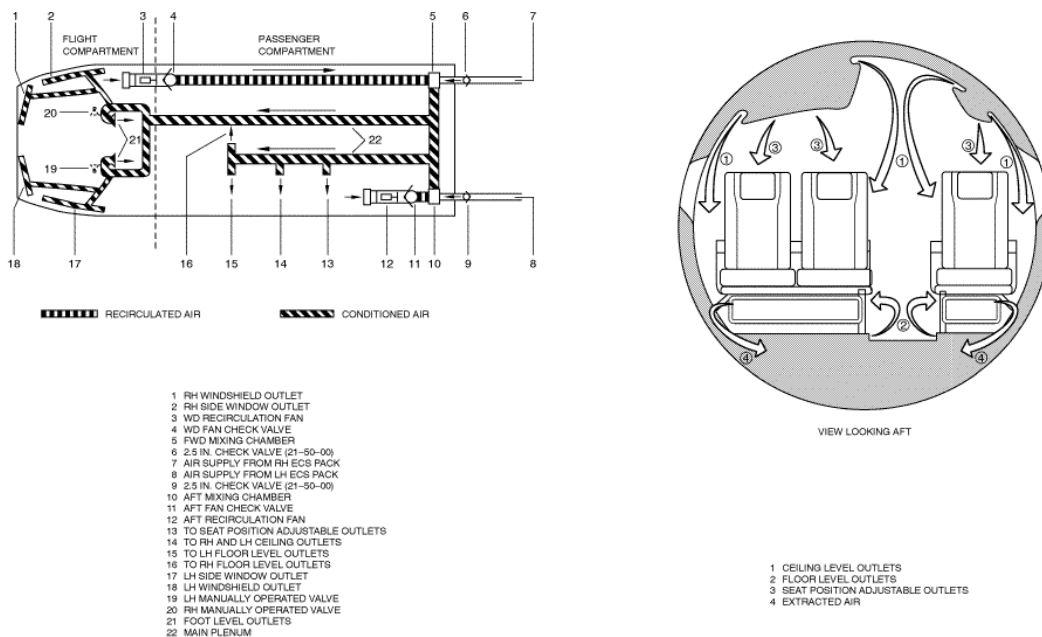
CAUTION: NO SPECIFIC COMPATIBILITY TESTING HAS BEEN PERFORMED WITH THESE COMMERCIAL DISINFECTANTS ON D328 INTERIOR SURFACES YET. BEFORE USE, PLEASE TEST ON SMALL HIDDEN SURFACES OR SCRAP PARTS IF DECOLORING OR DISSOLVING OF PAINT SURFACE OCCURRS.

Cabin air supply

Conditioned air for the cabin flight deck is supplied from the outlet of each ECS pack through independent ducts and 2.5 in. check valves to a forward and aft mixing chamber. The two annular mixing chambers are interconnected by a longitudinal main plenum. The plenum has outlets for the flight compartment ducting and for the passenger compartment ducting.

Used air from the pressure cabin is extracted into the underfloor area through openings on the lower LH and RH sidewalls of the flight and passenger compartments. The used air is partially collected by the recirculation and avionic fans and partially discharged overboard through the cabin pressure outflow valve. The used cabin air collected by the recirculation

fans is directed to the mixing chamber, where it is mixed with fresh air from the ECS packs. The mixed air is lead to the distribution lines of the cabin.



Conditioned Air Distribution – Schematic

ICN : D1-A-2120-D0012-A-02

Air Distribution in Passenger Compartment

ICN : D1-A-2120-D0013-A-01

In order to get a constant renewal of cabin/flight deck air 328SSG gives the following interim operational procedure:

- Switch off the recirculation fan by pushing the RECIRC switch/light on the ECS control panel (16VE).
Make sure that RECIRC OFF illuminates.
- For climb/cruise/descent: Set ECS flow to HIGH by pushing the FLOW MODE switch/light.
Make sure that the FLOW MODE HIGH illuminates and the EICAS ECS page shows a blue HIGH message.

CAUTION: AN OPERATION IN HIGH ECS FLOW MODE FOR A LONGER PERIOD HAS TO BE CONSIDERED FOR FLIGHT PLANNING AND FUEL CONSUMPTION.

CAUTION: FOR TAKEOFF AND LANDING RETAIN STANDARD PROCEDURE.