



Air Purification System (APS™) for Boeing 777



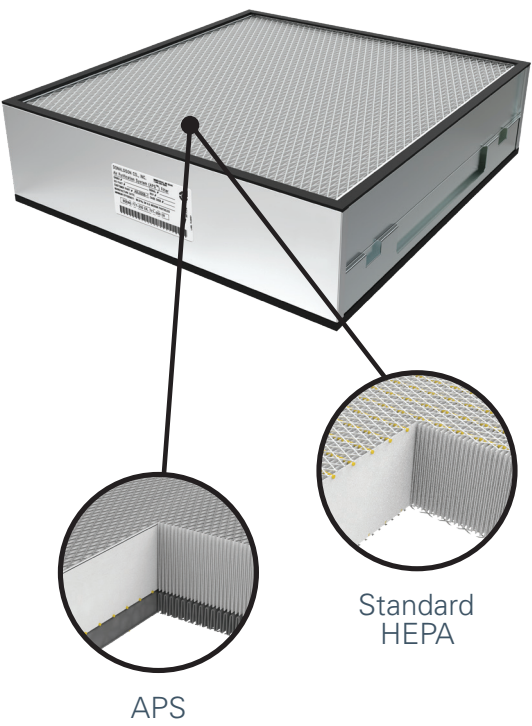
BREATHE EASY

Donaldson’s Air Purification System (APS™) combines particulate and chemical filtration in one filter for cleaner air in commercial aircraft. These two stages work together to remove a wide range of contaminants from the air.

- + Particulate filtration removes dust, allergens, and other irritating particles from the air.
- + Chemical filtration utilizes gas phase adsorption to remove bio-effluents, fuel by-products, volatile organic compounds (VOC), and other contaminants from internal and external sources.

Donaldson APS solutions effectively and reliably:

- + Remove gaseous contaminants including odors
- + Provide HEPA-efficient particulate removal
- + Match current change intervals
- + Maintain same weight as standard particulate filter
- + Permit HEPA and APS filters to be used interchangeably



Boeing 777 Cabin Air Solutions

	P512777 (Standard HEPA)	P639821 (APS)
Particulate Removal	HEPA (99.97% on 0.3 µm)	HEPA (99.97% on 0.3 µm)
VOC Removal	No	Yes
Weight	3.2 kg (7.0 lbs) clean	3.2 kg (7.0 lbs) clean
Estimated Change Interval	6,000 hours	6,000 ¹ hours
Dimensions	20.0" x 18.7" x 5.0" 510 mm x 475 mm x 125 mm	20.0" x 18.7" x 5.0" 510 mm x 475 mm x 125 mm
Approvals	OE Production Approval: Boeing 777-200 Series, 777-200LR Series, 777-300 Series, 777-300ER Series	FAA T&C ² PMA Approved: Boeing 777-200 Series, 777-200LR Series, 777-300 Series, 777-300ER Series

1 - Calculated using the dust concentration from Boeing SCD S214W901 (dated 2017)

2 - Test and Computation

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