

# **Boeing® 747-100/200/300 and 400 HEPA Cabin Air Recirculation Filters Odor Adsorptive Filter**



Donaldson manufactures aircraft filters that lead the industry in cleaning critical environments. Our aircraft filters keep cabin environments pleasant for crew and passengers.

## **HEPA Cabin Air Recirculation Filters**

Donaldson High Efficiency Particulate Air (HEPA) filters meet and exceed the Boeing specification for aerosol particulate removal. Donaldson HEPA filters trap dust, lint, pollen, smoke, bacteria, viruses, spores and other contaminants.

## **Odor Adsorptive Filter for B747-400**

Hundreds of trace chemicals are present in aircraft cabin air. Most are unnoticeable and all are normally within safe limits. However, noticeable odors are a key cause of reduced passenger comfort. Donaldson's Odor Adsorptive filters with activated carbon are designed to trap food, smoke and other organic vapors present in the air recirculation system and keep them from reentering the cabin air supply.

Donaldson filters provide highly efficient air recirculation, which means passengers and crew can breathe a whole lot easier.

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## Structural Advancement

Donaldson HEPA cabin air recirculation filters feature a pleated media design that offers more media surface area per filter for higher efficiency and longer filter life. For operators, that means one C-Check interval, with an additional safety margin.

## Activated Carbon Adsorption

Odorous chemicals in aircraft cabin air may be generated from a variety of sources including fuel, jet exhaust, hydraulic fluids, deicing fluids, cleaning solutions, food and beverage service, and bioeffluents (people or cargo).

Donaldson's Odor Adsorptive filters contain activated carbon. The porous nature of carbon provides a very large surface to which gas molecules attach and become trapped. Activated carbon adsorption efficiency and capacity increase as odor concentration increases. The stronger the odor, the better the filter works.

## Also for B-747 Aircraft

For your convenience, Donaldson also offers FAA-PMA and OEM approved filters for in-flight entertainment systems, crew rest stations, smoking sections, fuel tank pressurization systems and vacuum lavatory air compressors. For aircraft applicability and part numbers, please contact your regional Donaldson office.



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Design Requirement	HEPA Cabin Air Recirculation Filters		Odor Adsorptive Filter
Aircraft Applicability	B747-100/200/300	B747-400	B747-400
Part Number	P199000	P199747	P192839
FAA-PMA	Yes	Yes	Yes
OEM	Pending	Yes	Yes
Efficiency	99.97% on 0.3µm	99.9% on 0.3µm	90% activity on CCl <sub>4</sub> to saturation
Rated Airflow	700 SCFM	680 SCFM	680 SCFM
Recommended Service Interval	C-Check	C-Check	C-Check
Skydrol® Tested	Yes	Yes	N/A
Dimensions	23.38 × 23.38 × 5.88 (in.) 593.9 × 593.9 × 149.4 (mm)	16 × 20 × 3.88 (in.) 406.4 × 508.0 × 98.55 (mm)	16 × 20 × 7.13 (in.) 406.4 × 508.0 × 181.1 (mm)