



REDUCE LIFE CYCLE COSTS

## Donaldson PJAC™ Ultra® Self-Cleaning Air Cleaner

### When downtime is not an option....

The self-cleaning Donaldson Pulse Jet Air Cleaner (PJAC) Ultra provides advanced engine protection in the most extreme military environments. Pulses of compressed air automatically clean the air filter, keeping vehicles operational during critical missions.



# greater mission

## Pulse Jet Air Cleaner (PJAC™) Ultra®

The Donaldson PJAC is a self-cleaning air filter that cleans filter elements with short duration pulses of compressed air. Using Donaldson's UltraWeb® Nanofiber Filtration Technology, the PJAC Ultra air cleaner provides the highest level of efficiency – 99.997+% – and has a filter life of greater than 200 hours when tested per MIL-PRF-62048. Lab and field tests have demonstrated that filter servicing is reduced to less than one-tenth compared to conventional air cleaners.

## Expect Measurable Reductions in Maintenance Costs



### PJAC™ Ultra® Advantages

- Longer filter life (10 times the life of conventional filters)
- Reduced vehicle life-cycle maintenance costs
- Small overall size allows for under hood applications
- Low average restriction delivers improved vehicle power and fuel economy
- High efficiency filtration provides superior engine protection

**Field Tested in Harsh Environments -**  
More than 2,000 units are already in use in Iraq, Afghanistan and other harsh military environments.

### PJAC™ Ultra® Features

- 2-stage filtration process uses Donaldson Ultra-Web® Nanofiber Technology (99.997% efficient)
- Ultra-Web media captures even the smallest dust and dirt particles
- Ultra-Web media's surface loading of contaminants provides superior cleaning capability
- Ideal for vehicles in high-dust conditions – with airflow requirements of 400 CFM (11.33 m<sup>3</sup>/min) to 1400 CFM (39.66 m<sup>3</sup>/min).
- Available in scalable sizes from 11" to 16" diameter
- Scavenge or scavenge-free options are available
- Easy servicing / filter changeout – no tools required
- Corrosion-resistant air cleaner housings in aluminum or steel

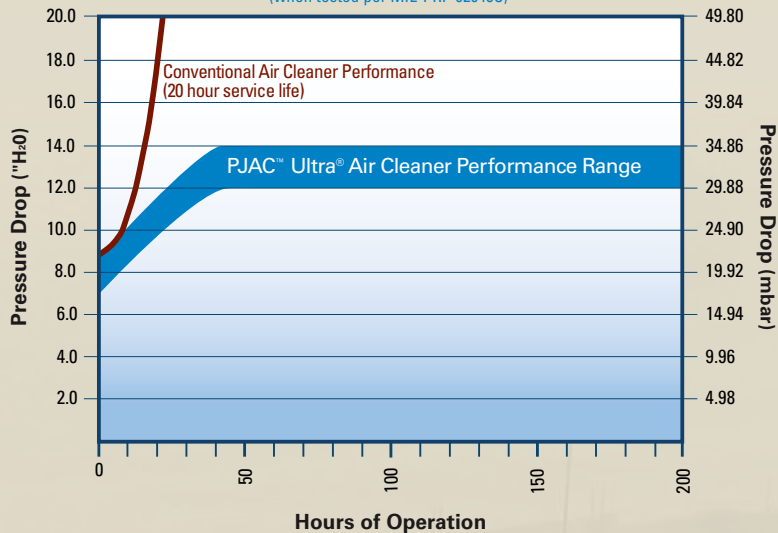
# availability

## Ten Times the Life

PJAC™ Ultra® Self-Cleaning Air Cleaner provides more than 10 times the life of a conventional air cleaner.

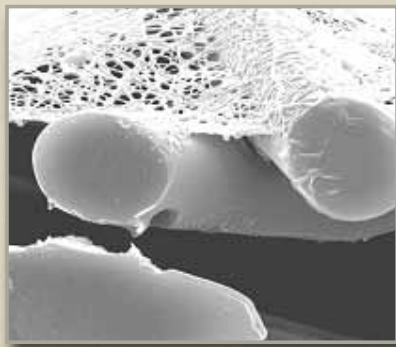
### PJAC™ Ultra® Air Cleaner Lab Dust Test

(when tested per MIL-PRF-62048C)

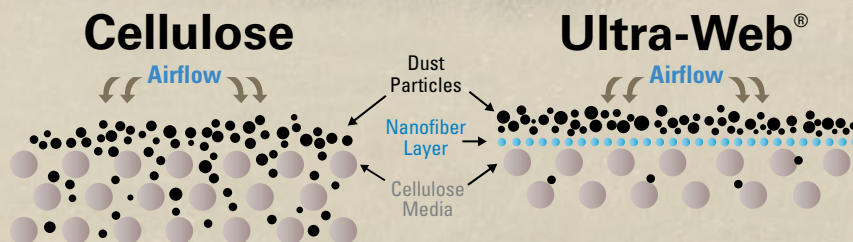


## Advanced Media

Surface loading Ultra-Web® nanofiber media is the key to Donaldson's field-proven pulse cleaning technology.



Ultra-Web nanofiber media has sub-micron diameters and small interfiber spaces, resulting in the contaminant being captured on the surface of the media, greatly improving filtration efficiency and making effective pulse cleaning possible.



**“Extreme conditions require prepositioned ground fleet to be equipped with PJAS.”**

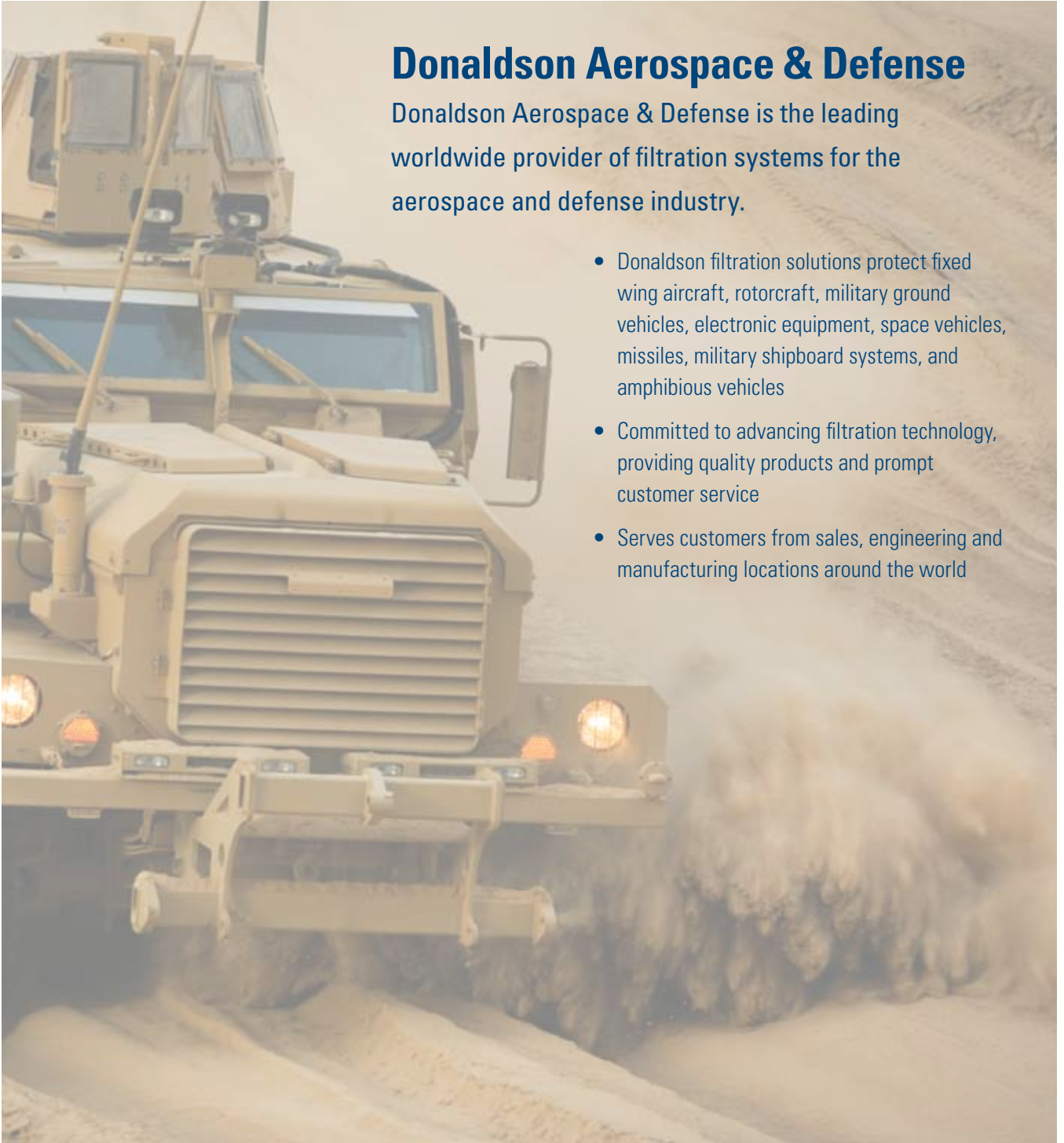
*PM Combat Systems, U.S. Army speaking about lessons learned with tanks in Operation Iraqi Freedom*

*Note: The Army uses Pulse Jet Air System (PJAS) interchangeably with Pulse Jet Air Cleaner (PJAC)*

## Innovative and original

Proven Pulse Jet Air Cleaner technology has been used for decades on heavy-duty military equipment. Now the same PJAC technology is available as the PJAC Ultra for medium- and light-duty vehicles.





## Donaldson Aerospace & Defense

Donaldson Aerospace & Defense is the leading worldwide provider of filtration systems for the aerospace and defense industry.

- Donaldson filtration solutions protect fixed wing aircraft, rotorcraft, military ground vehicles, electronic equipment, space vehicles, missiles, military shipboard systems, and amphibious vehicles
- Committed to advancing filtration technology, providing quality products and prompt customer service
- Serves customers from sales, engineering and manufacturing locations around the world



**Donaldson**  
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Donaldson Company, Inc.  
PO Box 1299  
Minneapolis, MN  
55440-1299

Aerospace & Defense  
952-887-3435  
Toll-free 866-323-0394

[www.DonaldsonAerospace-Defense.com](http://www.DonaldsonAerospace-Defense.com)

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