



ALTERNATIVE ELEMENTS

Donaldson Ultrafilter DF Series



There is an alternative...

Walker Filtration manufactures and supplies one of the most comprehensive and competitively priced ranges of Alternative Filter Elements in the market today. With a dynamic approach to design, material selection and construction, our engineering team reviews the original design, not only to create an alternative, but also to provide a superior product.



Features & Benefits



Compatible with OEM Housings

Same 'oval' geometry port gives full compatibility and minimizes differential pressure



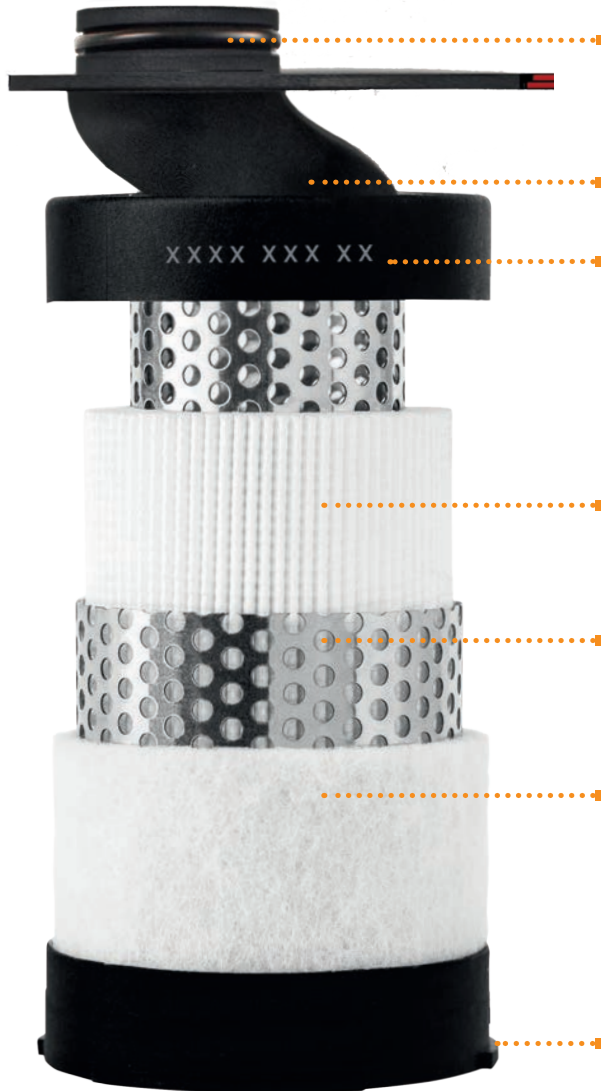
Pleat Pack Depth

of the alternative element is equal to or better than the original



Deeper End Caps

provide better adhesion than the original



Custom engineered top cap design allows for installation in standard and reverse flow configuration, with red indication marker.

Corrosion resistant glass filled nylon top end caps provide an optimum flow path.

Full traceability and easy identification ink jet marking enables easy grade and part number identification, branding and batch code traceability in line with our ISO9001 manufacturing process.

Deep bed pleated media gives significantly more surface area for particulate removal and lower Delta P.

High quality stainless steel cylinders provide corrosion resistance and deliver strength and stability to the element.

Custom outer drainage layer prevents oil carryover and improves coalescence performance. Polyester needle felt sleeve is designed for unique coalescing action to quickly drain oil. Element sleeves are ultrasonically welded down the seam and will not decay with age.

Winged base cap allows for sufficient spacing between bowl and cap, ensuring no re-entrainment will occur.



Guaranteed Performance

- ✓ Lower differential pressure
- ✓ High oil removal efficiencies
- ✓ Performance equal or superior to OEM elements
- ✓ In house and independent testing in accordance with industry standards



Cost Effective

- ✓ Increased energy efficiencies
- ✓ Lower operational costs
- ✓ Competitive pricing



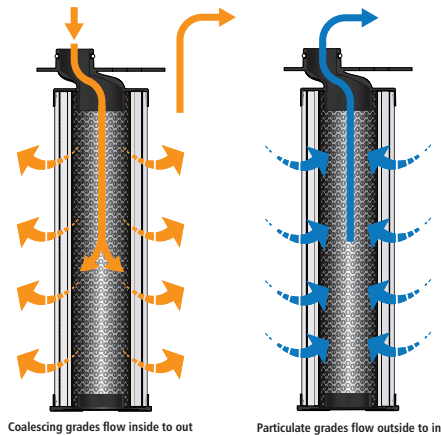
Quality Design

- ✓ Corrosion resistant high grade stainless steel support cylinders
- ✓ High quality filtration media and pleated construction for improved efficiencies
- ✓ Made in the UK



Material Comparison

Coalescing / Particulate Filter			
Component	Donaldson (V/M/S Grade)	Walker Filtration (X5/X1/XA Grade)	
Filter media	Polyester fiber fleece/ borosilicate glass fiber fleece	Borosilicate glass microfibers	<ul style="list-style-type: none"> Borosilicate Microfiber Glass withstands higher temperatures, is completely inert and is immune to degradation
Coalescing sleeve	Polyester fleece	Nonwoven polyester fabric	
Inner and outer support liner	Stainless steel	Stainless steel	<ul style="list-style-type: none"> Pleated construction for optimum particulate removal and low differential pressure
End cap	Glass fiber reinforced polymer	Glass fiber reinforced polymer	
O-rings	Viton	Viton	
Potting compound	Polyurethane	Polyurethane	



Activated Carbon Vapor Filter			
Component	Donaldson (A Grade)	Walker Filtration (AC Grade)	
Adsorption stage	Activated carbon granulate	Activated carbon wrap	<ul style="list-style-type: none"> Utilizes high speed activated carbon cloth for more consistent vapor removal
Filtration Stage	None	0.01 micron glass microfiber	
End cap	Glass fiber reinforced polymer	Glass fiber reinforced polymer	<ul style="list-style-type: none"> High capacity carbon for extended service life
O-rings	Viton	Viton	
Inner and outer support liner	Stainless steel	Stainless steel	<ul style="list-style-type: none"> Includes 0.01 micron layer of glass microfiber on the inlet and outlet to prevent granular carbon carryover
Potting compound	Polyurethane	Polyurethane	

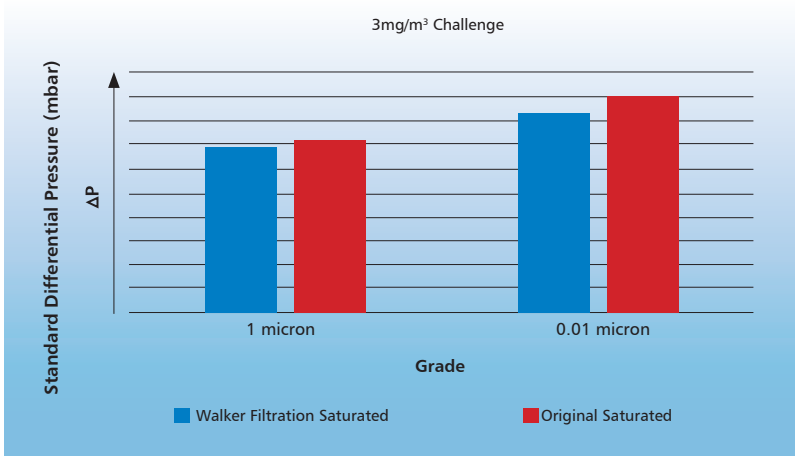


Performance

Validated performance data in accordance with ISO 12500-1, ISO12500-2 and ISO 12500-3.

Walker Filtration’s Alternative Filter Elements perform equal to or better than the original manufacturers, meeting or exceeding the original OEM’s specifications.

Our Donaldson DF alternatives provide cost effective, reliable, energy efficient filter elements that deliver quality compressed air in line with ISO 8573-1.



Technical Specification

Table shows original equipment performance claims as published by manufacturer (Donaldson).

Walker Filtration guarantees performance of alternative filter elements to be equal to or exceeding that of the original filter element when placed in service under identical conditions.

Walker Grade	X5		X1		XA		AC		
Donaldson Grade	V		M		S		A		
Filter Type	Coalescing / Particulate		Coalescing / Particulate		Coalescing / Particulate		Activated Carbon		
Initial Differential Pressure (element & housing)	Dry*	1.7 psi	117 mbar	1.89 psi	130 mbar	2.26 psi	156 mbar	2.89 psi	199.5 mbar
		1.6 psi	110 mbar	1.16 psi	80 mbar	1.45 psi	100 mbar	1.89 psi	130 mbar
Initial Differential Pressure (element & housing)	Wet**	2.03 psi	140 mbar	1.99 psi	137 mbar	2.41 psi	166 mbar	N/A	
		1.7 psi	120 mbar	2.03 psi	140 mbar	2.61 psi	180 mbar	N/A	
Particle Retention Rate (microns)	5		1		0.01		0.01		
	5		0.01		0.01		1		
ISO 8573-1 Residual Oil Content Class	4		2		1		3		
	3		2		1		3		
Max Temp	176°F (80°C)		176°F (80°C)		176°F (80°C)		176°F (80°C)		

*When challenged with 3mg/m³ oil content for Walker X1 and XA vs 3mg/m³ for Donaldson M and V at rated flow

**When challenged with 40mg/m³ oil content for Walker X5 and AC vs 3mg/m³ for Donaldson V and A at rated flow

Coalescing and Particulate Element Grades

Grade X5 - 5 Micron

Walker Model	Replaces Donaldson Filter Element
DU0035X5	0035V / 1C486003
DU0070X5	0070V / 1C486013
DU0120X5	0120V / 1C486023
DU0210X5	0210V / 1C486033
DU0320X5	0320V / 1C486043
DU0450X5	0450V / 1C486053
DU0600X5	0600V / 1C486063
DU0750X5	0750V / 1C486073
DU1100X5	1100V / 1C486083

Grade X1 - 1 Micron

Walker Model	Replaces Donaldson Filter Element
DU0035X1	0035M / 1C486001
DU0070X1	0070M / 1C486011
DU0120X1	0120M / 1C486021
DU0210X1	0210M / 1C486031
DU0320X1	0320M / 1C486041
DU0450X1	0450M / 1C486051
DU0600X1	0600M / 1C486061
DU0750X1	0750M / 1C486071
DU1100X1	1100M / 1C486081

Grade XA - 0.01 Micron

Walker Model	Replaces Donaldson Filter Element
DU0035XA	0035S / 1C486000
DU0070XA	0070S / 1C486010
DU0120XA	0120S / 1C486020
DU0210XA	0210S / 1C486030
DU0320XA	0320S / 1C486040
DU0450XA	0450S / 1C486050
DU0600XA	0600S / 1C486060
DU0750XA	0750S / 1C486070
DU1100XA	1100S / 1C486080

Grade AC - 0.01 Micron

Walker Model	Replaces Donaldson Filter Element
DU0035AC	0035A / 1C486006
DU0070AC	0070A / 1C486016
DU0120AC	0120A / 1C486026
DU0210AC	0210A / 1C486036
DU0320AC	0320A / 1C486046
DU0450AC	0450A / 1C486056
DU0600AC	0600A / 1C486066
DU0750AC	0750A / 1C486076
DU1100AC	1100A / 1C486086

