

The Donaldson® DF filters are designed for high quality filtration of compressed air or gas in a wide range of applications. The filter design combines high performance, greater efficiency, ease of use, flexibility, and safety.

- **High Performance** — the flow-optimized filter design, paired with innovative filtration technology, reduces pressure loss by 50% compared to conventional filters.
- **Safety** — the unique bayonet lock ensures that the filter cannot be opened under pressure for increased safety.
- **Energy Savings** — You will find that greater energy savings are achieved through timely filter element replacement. Element change out is determined by the Economizer that continuously measures the differential pressure. An integrated microprocessor evaluates the measured data and compares the higher energy costs caused by pressure loss with the costs of a new filter element.



FEATURES	BENEFITS
Multiple housing sizes, element types and accessories	Allows for unique and specialized solutions for each application.
Optimized flow design — reduced pressure drop by 50%	Minimum pressure loss means lower energy consumption compared to conventional filters.
Performance data is validated according to ISO 12500-1	Reliable filtration of compressed air according to ISO 8573-1.
Filter element can be removed together with filter bowl	Minimizes space needed for filtration installation.
Code clip inside the filter bowl can be changed for multiple flow directions through the element	Dual use housings can be used either as a coalescing filter (inside to outside flow) or a particulate filter (outside to inside flow).
Bayonet filter bowl lock - filter cannot be opened under pressure	Increased safety.
Integrated differential pressure indicator	Allows user to replace filter element at the proper interval.
Immersion-coated housing	Long-term protection against corrosion.

DIMENSIONS & SPECIFICATIONS

Model	Capacity ¹ (scfm)	Connection (inches FNPT)	Element		Dimensions (inches)				Standard ² Weight (lbs)	Superplus ² Weight (lbs)
					Standard		Superplus			
			Size	Qty.	Height (A)	Width (I)	Height (A)	Width (J)		
DF 0035	20	1/4	0035	1	7.5	3.5	16	3.5	1	3
DF 0070	41	3/8	0070	1	11.5	4.5	18	4.5	2	4
DF 0120	70	1/2	0120	1	13.5	4.5	20	4.5	2	4
DF 0210	123	3/4	0210	1	14.5	6	21	6	5	6
DF 0320	188	1	0320	1	17.5	6	24	6	5	7
DF 0450	264	1-1/4	0450	1	23	7.5	29	7.5	12	7
DF 0600	353	1-1/2	0600	1	23	7.5	31	7.5	12	7
DF 0750	441	2	0750	1	23	7.5	31	7.5	12	7
DF 1100	647	2	1100	1	30	7.5	35	7.5	16	15

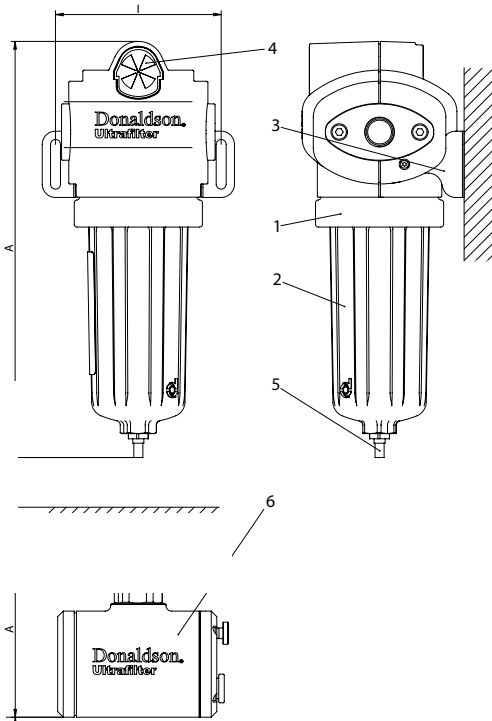
¹ Capacity based on 100 psig inlet pressure.

² Without filter element.

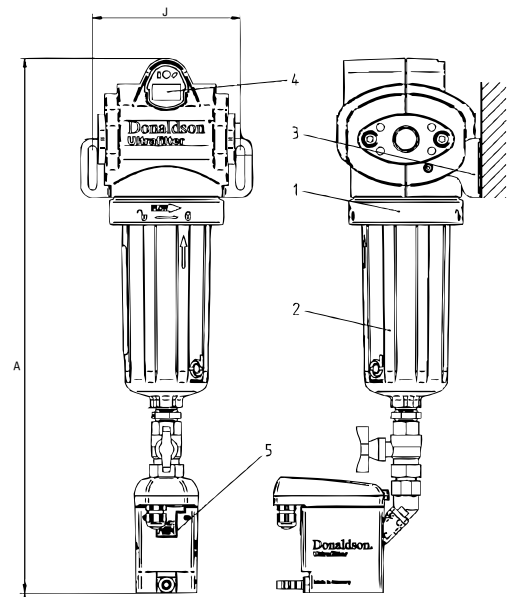
CAPACITY CORRECTION FACTORS

Operating Pressure (psig)	15	30	45	60	75	90	100	115	130	150	160	175	190	200	220	230
Correction Factor	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.8	1.9	2.0	2.1

DF Standard



DF SuperPlus



No.	Quantity	Description
1	1	Filter Head
2	1	Lower Housing Bowl
3	2	Wall Bracket (option)
4	1	Economizer
5	1	Internal Automatic Drain KA 1/2
6	1	External Automatic Drain UFM-P (optional)

No.	Quantity	Description
1	1	Filter Head
2	1	Lower Housing Bowl
3	2	Wall Bracket (option)
4	1	Economizer
5	1	Condensate Drain UFM-D03 (DF 0035 - DF 1100)

MATERIALS

Filter Housing	Aluminum die cast
Differential Pressure	DF Standard: Econometer DF SuperPlus: Economizer
Float Drain	DF Standard: Polymer/Aluminum Mold Cast (Note: DF1100 MK comes with UFM-P drain valve) DF SuperPlus: Aluminum, Glass fiber reinforced polymer
Housing Bowl Gasket	Perbunan

DESIGN PRESSURE AND TEMPERATURE

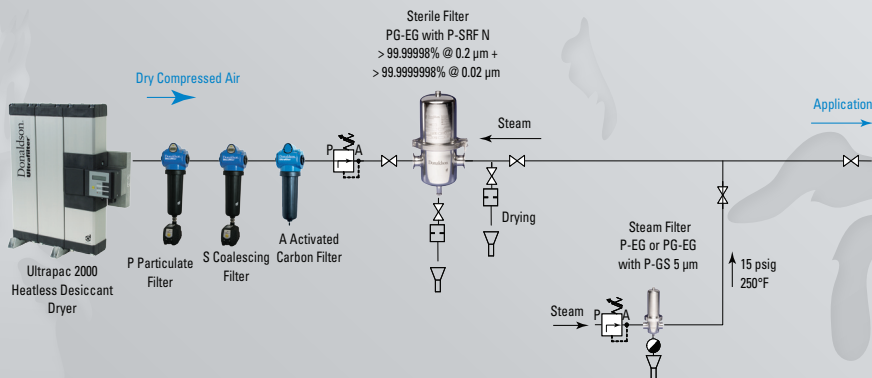
250 psig at 150°F

ELEMENT PERFORMANCE DATA

Type	Element & Housing		Element Only		Residual Oil Content	Particle Retention Rate
	Initial Δp (psid) Dry	Initial Δp (psid) Wet	Initial Δp (psid) Dry	Initial Δp (psid) Wet		
P Particle Filter	2.17	2.90	1.08	1.81	NA	25 micron absolute
B Particulate Filter	1.74	NA	0.50	NA	NA	25 micron absolute
V Coalescing Filter	1.60	1.74	0.50	0.65	1 ppm	99.9% on 5 micron particles
M UltraPleat™ Coalescing Filter	1.09	2.03	0.50	1.52	1 ppm	99.9999% on 0.01 micron particles
S UltraPleat™ Coalescing Filter	1.45	2.61	0.64	2.00	<0.003 ppm	99.99998% on 0.01 micron particles
A Carbon Filter	1	NA	0.79	NA	<0.003 ppm	1 micron absolute

think PURITY think DONALDSON

Donaldson Compressed Air & Process is the leading worldwide provider of compressed air purification equipment and process filtration.



RELIABLE FILTRATION FROM COMPRESSOR TO POINT-OF-USE

- Energy saving, reliable filters and dryers
- Provide filtration for air, liquids and steam used in the food & beverage processing and aseptic packaging, inks, paints, coatings, pharmaceuticals and more.

READILY AVAILABLE PARTS

- Ready-to-ship filter elements within 24 hours
- Active inventory management to ensure we have high moving product in stock

GLOBAL CUSTOMER SUPPORT AND A CENTURY OF FILTRATION EXPERIENCE

- Over 1,000 engineers and scientists worldwide
- Proprietary media for durability and performance
- Prompt technical expertise and support



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{Contains Donaldson proprietary technology.}