

DEFIANT[®] Bag
Extended Pocket Filters


Purolator[®]
Air Filtration
a CLARCOR company

Redefining filtration technology

Purolator's DEFIANT 70/85/95% media meets today's ASHRAE challenges in process control and contaminant reduction. The unique, patented non-woven process used to manufacture DEFIANT filters creates a media which outperforms similar products with respect to initial efficiency, average efficiency, and dust holding capacity.

The continuous hydrophobic fibers which make up DEFIANT media do not absorb moisture and are thermally bonded to eliminate the need for chemical containing binders that could promote microbial growth or generate VOCs. Both characteristics create a durable media able to withstand turbulent, high velocity conditions, even when high humidity is a factor.

Fire resistance

All DEFIANT bag filters are listed Class 2 by Underwriters Laboratories, Inc. Testing is performed in accordance with UL Standard 900. The recommended operating temperature for these filters is $\leq 200^{\circ}\text{F}$.

Improved efficiency

DEFIANT media utilizes a dual-stage electrostatic enhancement, and continuous fiber structure to initially capture an increased amount of smaller particulate than conventional glass media—thereby improving overall particle size efficiency (see chart below).

Applications

DEFIANT 70/85/95% media bag filters are specifically manufactured for system applications requiring high efficiency, non-shedding media filtration. These include hospitals, health care facilities, food processing plants, pharmaceutical manufacturing, telecommunications, and other HVAC applications.

The DEFIANT 70/85/95% media has multiple performance characteristics which combine to provide optimum filter service life, and lower maintenance and energy costs.

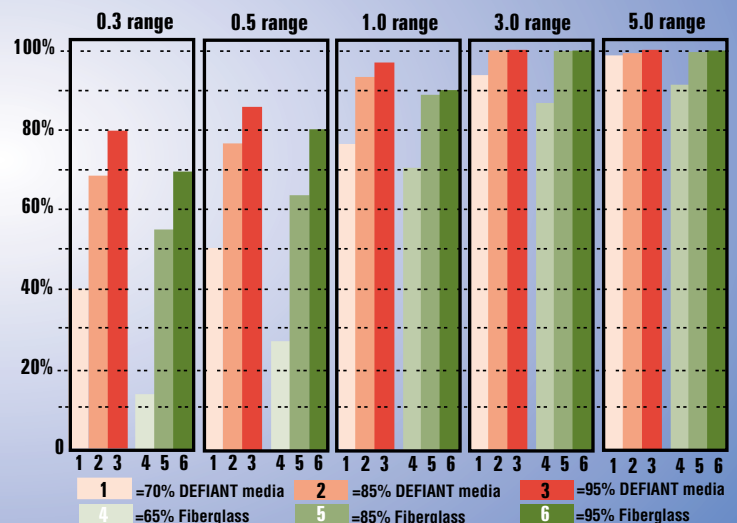
DEFIANT® Bag Filters

Performance Information Charts

MERV chart

ASHRAE 52.1	ASHRAE 52.2	ASHRAE 52.2 MERV
70%	65 - 70%	12
85%	80 - 85%	15
95%	90 - 95%	15

Particle size efficiency chart*



* (1) Based on 70/85/95% ASHRAE rated 1/4" fiberglass and DEFIANT synthetic media. (2) Test method: Aerosol Retention Efficiency (3) Efficiency test based on test challenge agent KCl (Potassium Chloride). (4) Initial efficiency based on air-flow rate of 25 FPM.

DEFIANT® Bag Filters

Product Specification

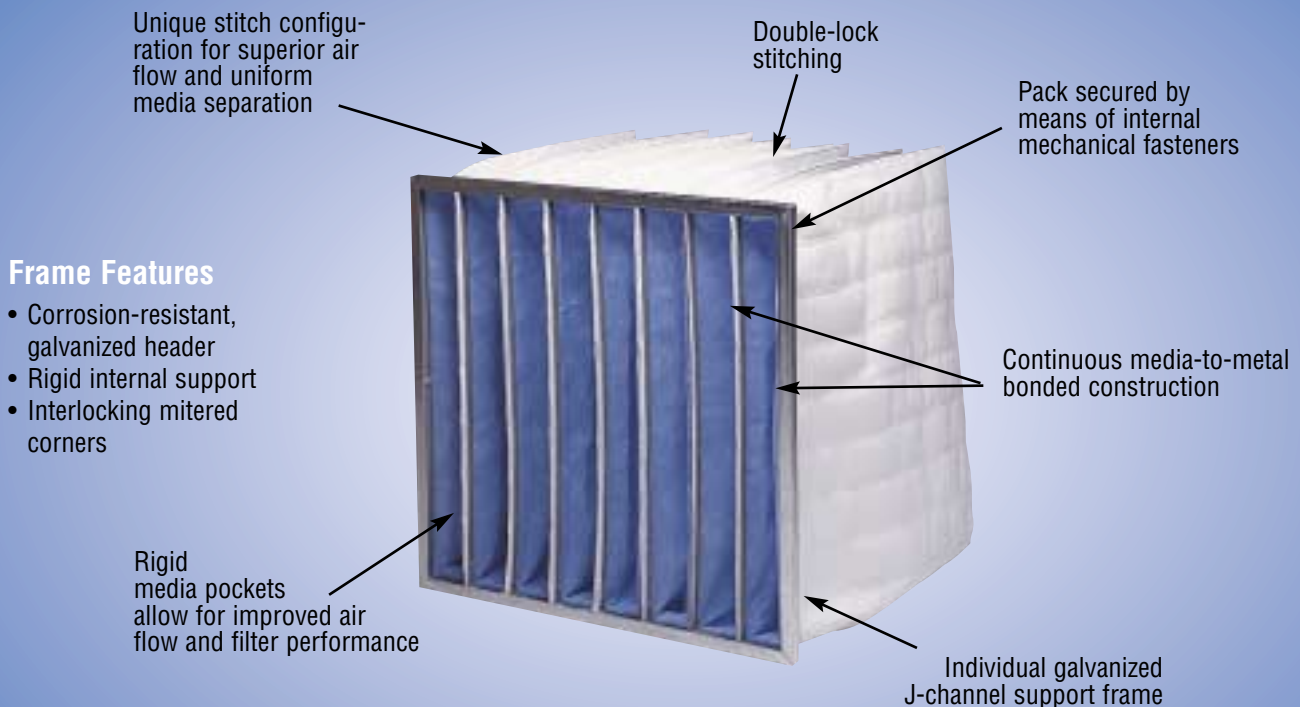
Air filters shall be replaceable, factory assembled filters consisting of multiple dust holding pockets assembled in a corrosion resistance galvanized steel frame.

Filter media shall be made of continuous, synthetic and hydrophobic fiber that is thermally bonded and absent of any chemical binders. The filter shall have an initial efficiency of ___ and an average efficiency of ___ when tested in accordance with ASHRAE Standard 52.1. Filter shall have a MERV rating of ___ when tested in accordance with ASHRAE 52.2.

The dust holding capacity of the filter shall not be less than ___ grams. Each filter shall have a rated airflow of ___ cfm, and initial resistance not to exceed ___, and a final resistance of 1.00 w.g. Each filter shall have no less than ___ square feet of media area.

A multi-row stitching process shall produce individual self-supporting dust holding pockets to achieve uniform media spacing, thereby extending filter life and optimizing performance. The multiple rows of stitching shall be sealed with a thermal plastic adhesive. Dust holding pockets shall be bonded to their own metal support frame and assembled into a heavy 28-gauge galvanized steel enclosure frame. Side-by-side pockets shall be mechanically fastened to the adjacent frames. The open area of the filter shall be greater than 85% of the total face area.

The filter shall be rated Class 2 by Underwriters Laboratories, Inc.



DEFIANT Bag Filter Construction Features

PERFORMANCE DATA:

DEFIANT 70/85/95% Bag Filters

Nominal size WxHxD	# of pockets	Media area sq. ft.	CFM capacity			70%			85%			95%					
			low	med	high	DEFIANT 70% Bag filter model number	Resist. in. W.G.			DEFIANT 85% Bag filter model number	Resist. in. W.G.			DEFIANT 95% Bag filter model number	Resist. in. W.G.		
24x24x12	12	49	1000	1500	2000	D7012 4412	.08	.14	.21	D8512 4412	.18	.30	.44	D9512 4412	.22	.36	.52
20x24x12	10	41	850	1275	1700	D7010 0412	.08	.14	.21	D8510 0412	.18	.30	.44	D9510 0412	.22	.36	.52
20x20x12	10	33	700	1050	1400	D7010 0012	.08	.14	.21	D8510 0012	.18	.30	.44	D9510 0012	.22	.36	.52
12x24x12	6	27	500	750	1000	D7006 2412	.08	.14	.21	D8506 2412	.18	.30	.44	D9506 2412	.22	.36	.52
24x24x26	10	90	1500	2000	2500	D7010 4426	.15	.23	.33	D8510 4426	.24	.35	.50	D9510 4426	.24	.37	.54
20x24x26	8	73	1200	1600	2000	D7008 0426	.15	.23	.33	D8508 0426	.24	.35	.50	D9508 0426	.24	.37	.54
20x20x26	8	66	1050	1400	1750	D7008 0026	.15	.23	.33	D8508 0026	.24	.35	.50	D9508 0026	.24	.37	.54
12x24x26	5	45	750	1000	1250	D7005 2426	.15	.23	.33	D8505 2426	.24	.35	.50	D9505 2426	.24	.37	.54
24x24x19	10	66	1000	1500	2000	D7010 4419	.08	.14	.22	D8510 4419	.14	.23	.35	D9510 4419	.17	.30	.47
20x24x19	8	56	800	1200	1600	D7008 0419	.08	.14	.22	D8508 0419	.14	.23	.35	D9508 0419	.17	.30	.47
20x20x19	8	48	700	840	1120	D7008 0019	.08	.14	.22	D8508 0019	.14	.23	.35	D9508 0019	.17	.30	.47
12x24x19	5	33	500	750	1000	D7005 2419	.08	.14	.22	D8505 2419	.14	.23	.35	D9505 2419	.17	.30	.47
24x24x12	10	42	1000	1500	2000	D7010 4412	.07	.12	.20	D8510 4412	.18	.28	.42	D9510 4412	.24	.37	.54
20x24x12	8	34	850	1275	1700	D7008 0412	.07	.12	.20	D8508 0412	.18	.28	.42	D9508 0412	.24	.37	.54
20x20x12	8	31	700	1050	1400	D7008 0012	.07	.12	.20	D8508 0012	.18	.28	.42	D9508 0012	.24	.37	.54
12x24x12	5	21	500	750	1000	D7005 2412	.07	.12	.20	D8505 2412	.18	.28	.42	D9505 2412	.24	.37	.54
24x24x26	8	73	1500	2000	2500	D7008 4426	.12	.19	.27	D8508 4426	.22	.34	.48	D9508 4426	.23	.36	.52
20x24x26	6	57	1200	1600	2000	D7006 0426	.12	.19	.27	D8506 0426	.22	.34	.48	D9506 0426	.23	.36	.52
20x20x26	6	50	1050	1400	1750	D7006 0026	.12	.19	.27	D8506 0026	.22	.34	.48	D9506 0026	.23	.36	.52
12x24x26	4	37	750	1000	1250	D7004 2426	.12	.19	.27	D8504 2426	.22	.34	.48	D9504 2426	.23	.36	.52
24x24x19	8	54	1000	1500	2000	D7008 4419	.08	.14	.21	D8508 4419	.15	.25	.38	D9508 4419	.18	.28	.44
20x24x19	6	42	800	1200	1600	D7006 0419	.08	.14	.21	D8506 0419	.15	.25	.38	D9506 0419	.18	.28	.44
20x20x19	6	36	700	840	1120	D7006 0019	.08	.14	.21	D8506 0019	.15	.25	.38	D9506 0019	.18	.28	.44
12x24x19	4	27	500	750	1000	D7004 2419	.08	.14	.21	D8504 2419	.15	.25	.38	D9504 2419	.18	.28	.44
24x24x26	6	57	1000	1500	2000	D7006 4426	.06	.12	.19	D8506 4426	.14	.26	.36	D9506 4426	.16	.26	.40
20x24x26	5	35	800	1200	1600	D7005 0426	.06	.12	.19	D8505 0426	.14	.26	.36	D9505 0426	.16	.26	.40
20x20x26	5	42	700	840	1120	D7005 0026	.06	.12	.19	D8505 0026	.14	.26	.36	D9505 0026	.16	.26	.40
12x24x26	3	21	500	750	1000	D7003 2426	.06	.12	.19	D8503 2426	.14	.26	.36	D9503 2426	.16	.26	.40
24x24x19	6	42	1000	1250	1500	D7006 4419	.06	.08	.11	D8506 4419	.17	.23	.30	D9506 4419	.22	.29	.36
20x24x19	5	33	750	1000	1250	D7005 0419	.06	.08	.11	D8505 0419	.17	.23	.30	D9505 0419	.22	.29	.36
20x20x19	5	30	700	840	1120	D7005 0019	.06	.08	.11	D8505 0019	.17	.23	.30	D9505 0019	.22	.29	.36
12x24x19	3	21	500	625	750	D7003 2419	.06	.08	.11	D8503 2419	.17	.23	.30	D9503 2419	.22	.29	.36



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