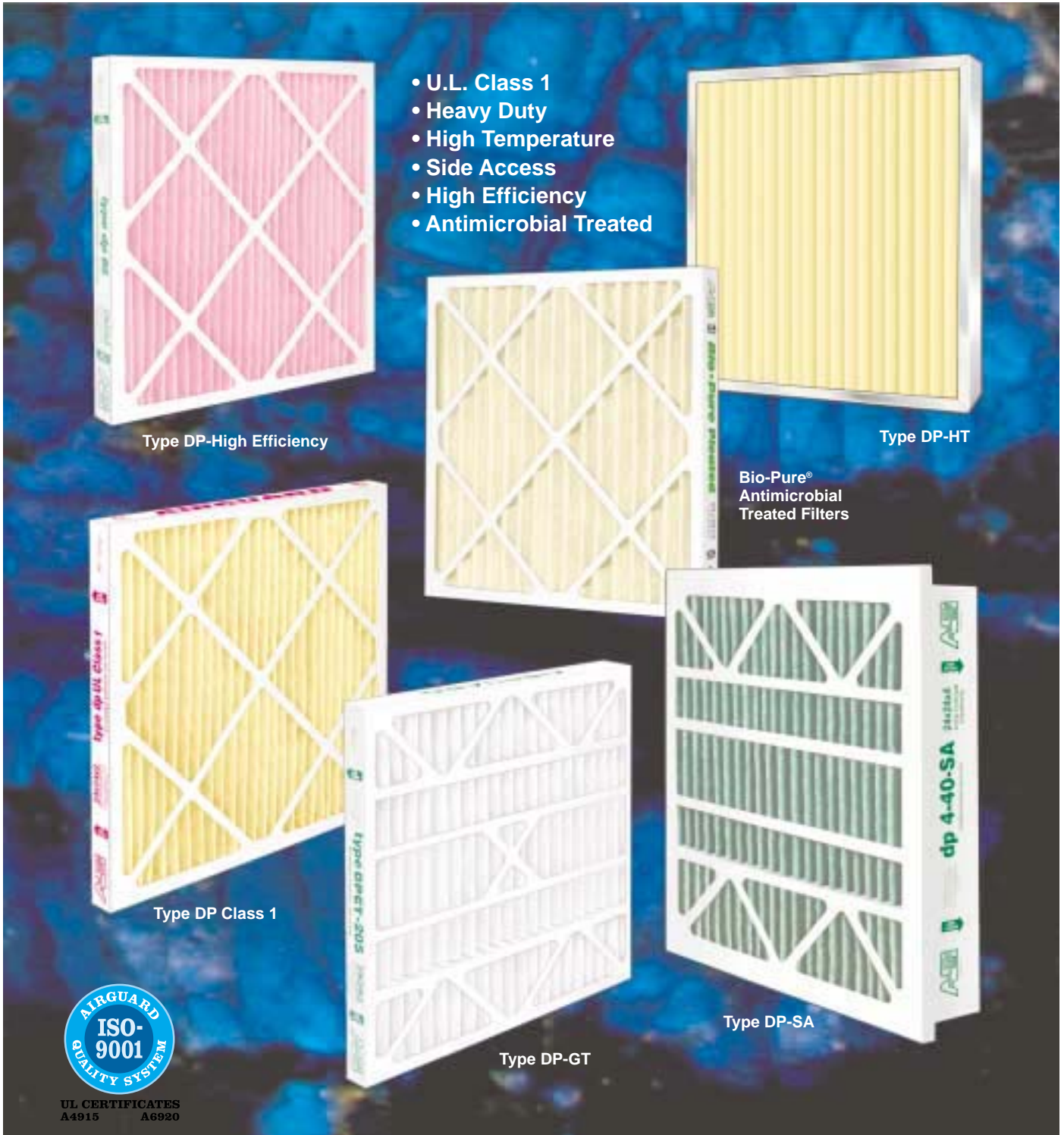




*Innovative
Clean Air
Solutions*

Pleated Filters for Specialized Applications



UL CERTIFICATES
A4915 A6920

Pleated Filters for Specialized Applications

FRAME CONSTRUCTION

All Airguard pleated filters (except High Temperature models) are assembled with a mating two piece die cut frame forming a double thick wall around the entire perimeter of the filter.

Diagonal support members are an integral part of the die cut frame on both sides. They are bonded to the pleat tips at all points of contact to maintain pleat shape, prevent fluttering in operation and increase filter rigidity.



Type DP Class 1

U.L. Class 1

35 - 40% Efficiency MERV - 8

1", 2", 4" Thicknesses
Standard Pleat Count (14.3 per inch
- 2" sizes)

Economy Pleat Count (10.0 per inch
- 2" sizes)

Frame Construction - Two piece die cut, fire retardant fiber board.

Media - Ultrafine microglass media with an expanded metal grid laminated to the air leaving side. A special fire retardant adhesive is used to seal the media pack inside the frame.

Applications - For use where a U.L. Class 1 filter is required.

Type DP-HT (High Temperature)

For Temperatures up to 500°F

35 - 40% Efficiency MERV-8

1", 2", 4" Thicknesses

Classified U.L. Class 1

Frame Construction - Aluminized steel channel with a heavy duty expanded metal screen on the air leaving side to support the media pack. A special high temperature adhesive is used to seal the media pack inside the frame.

Media - Ultra fine microglass fiber with a high temperature woven scrim backing on the air leaving side. The pleats are formed with an expanded metal grid.

Applications - For use in high temperature applications with continuous operating conditions up to 500°F.



Type DP-High Efficiency

Three efficiencies ✓ DP-65 - 50-55%;

DP-85 - 75-80%; - DP-95 - 80-85%

2", 4" Thicknesses

Classified U.L. Class 2

Frame Construction - Two piece die cut, high wet strength beverage board.

Media - Microglass fiber with an expanded metal grid laminated to the air leaving side to shape the pleats.

Applications - For use where higher efficiency filtration is required. Recommended for systems operating at low air flow velocities (4"): DP-65 - 500 FPM; DP-85 - 250 FPM; DP-95 - 125 FPM.

✓ 4" DP-65 provides the highest efficiency available in a pleated filter operating at 500 FPM (50-55%).

See Brochure KA-287 for Details



Type DP-GT
Heavy Duty Construction
30 - 35% Efficiency MERV-8
2", 4" Thicknesses
Classified U.L. Class 2

Frame Construction - Two piece die cut, high wet strength beverage board. GT filters are reinforced with pleat stabilizing fingers to maintain pleat spacing in difficult operating conditions.

Media - 100% nonwoven synthetic fibers, performance enhanced with an electrostatic charge. The pleats are formed with a rigid welded wire grid laminated to the air leaving side to increase pleat stability.

Applications - For use in higher velocity systems or difficult operating conditions, including turbulence or heavy dirt loading.

Type DP-SA (Side Access)

25 - 30% Efficiency MERV-6
4" Thick
Classified U.L. Class 2

Frame Construction - High wet strength beverage board with 3/4" thick header on the air entering side.

Media - Blend of cotton and polyester fibers with expanded metal grid laminated to the air leaving side.

Applications - For use in side access housings with a 1" track.

PowerGuard-SA

25 - 30% Initial Efficiency MERV-11
35 - 40% Average Efficiency
4" Thick
Classified U.L. Class 2

Frame Construction - High wet strength beverage board with 3/4" thick header on the air leaving side.

Media - Needled, electrostatically charged synthetic fiber with an expanded metal grid laminated to the air leaving side.

Applications - For use in side access housings with a 1" track.



Bio-Pure® Antimicrobial Treated Filters

25-30% Efficiency MERV-6
2", 4" Thicknesses

Standard Pleat Count (14.3 per inch - 2" sizes)

Economy Pleat Count (10.0 per inch - 2" sizes)

Classified U.L. Class 2

Frame Construction - Two piece die cut, high wet strength beverage board.

Media - Blend of cotton and polyester fibers with an antimicrobial treatment added. The pleats are formed with an expanded metal grid.

Applications - For use in applications where there is a need to reduce the growth of microorganisms on the filters.

Performance Data

Pleated Filters for Specialized Applications

	Type DP Class 1						Type DP-HT		
	Standard Pleat Count			Economy Pleat Count					
	1"	2"	4"	1"	2"	4"	1"	2"	4"
Initial Resistance (In. W.G.)									
@ 300 FPM	.28"	.25"	.20"	.30"	.27"	.22"	.50"	.35"	.25"
@ 500 FPM	N/R	.40"	.35"	N/R	.42"	.37"	N/R	.55"	.45"
Average Arrestance	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%
Average Efficiency	35-40%	35-40%	35-40%	35-40%	35-40%	35-40%	35-40%	35-40%	35-40%
MERV	8	8	8	8	8	8	8	8	8
Recommended Final Resistance (In. W.G.)	1.0"	1.2"	1.2"	1.0"	1.2"	1.2"	1.0"	1.2"	1.2"

	Type DP High Efficiency					
	DP-65		DP-85		DP-95	
	2"	4"	2"	4"	2"	4"
Initial Resistance (In. W.G.)						
@ 125 FPM	.21"	.10"	.40"	.30"	.58"	.45"
@ 250 FPM	.39"	.23"	N/R	.70"	N/R	N/R
@ 400 FPM	.70"	.42"	N/R	N/R	N/R	N/R
@ 500 FPM	N/R	.58"	N/R	N/R	N/R	N/R
Average Arrestance	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%
Average Efficiency	50-55%	50-55%	75-80%	75-80%	80-85%	80-85%
MERV	11	11	12	12	13	13
Recommended Final Resistance (In. W.G.)	1.2"	1.2"	1.2"	1.2"	1.2"	1.2"

	Side Access Models		Bio-Pure®						Type DP-GT	
			Standard Pleat Count			Economy Pleat Count				
	DP-SA	PowerGuard	1"	2"	4"	1"	2"	4"	2"	4"
Initial Resistance (In. W.G.)										
@ 300 FPM	.20"	.24"	.21"	.15"	.10"	.22"	.16"	.11"	.15"	.10"
@ 500 FPM	.48"	.55"	N/R	.30"	.25"	N/R	.32"	.27"	.30"	.25"
Average Arrestance	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%	90-95%
Average Efficiency	25-30%	35-40%	25-30%	25-30%	25-30%	25-30%	25-30%	25-30%	30-35%	30-35%
MERV	6	11	6	6	6	6	6	6	8	8
Recommended Final Resistance (In. W.G.)	1.2"	1.2"	1.0"	1.0"	1.0"	1.0"	1.0"	1.0"	1.2"	1.2"

1. All performance data is based on the ASHRAE 52.1 and 52.2 Test Standards. Performance tolerances conform to Section 7.4 of ARI Standard 850-93.
2. Filters may be installed with the pleats either vertical (preferred) or horizontal.



AIRGUARD

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Airguard has a policy of continuous product research and development and reserves the right to change design and specifications without notice.

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