



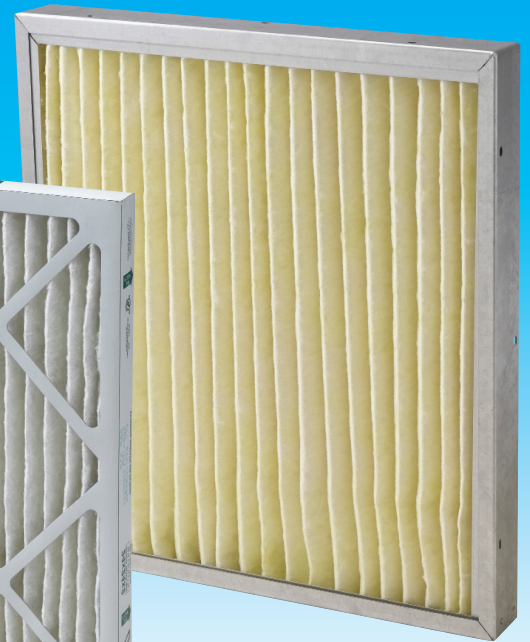
# Pleated Filters for Specialized Applications



**Type DP-High Efficiency**



**Bio•Pure  
Antimicrobial  
Treated Filters**



**Type DP-HT**



**Type DP1**



**Type DP-GT**



**Type DP-SA**

- Heavy Duty
- High Temperature
- Side Access
- High Efficiency
- Antimicrobial Treated

# 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 1

MERV 8  
1", 2" and 4" Thicknesses  
DP1 Pleat Count 14.0 Per In.- 2" Sizes  
MX1 Pleat Count 10.0 Per In.- 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.

## Type DP-HT (High Temperature)

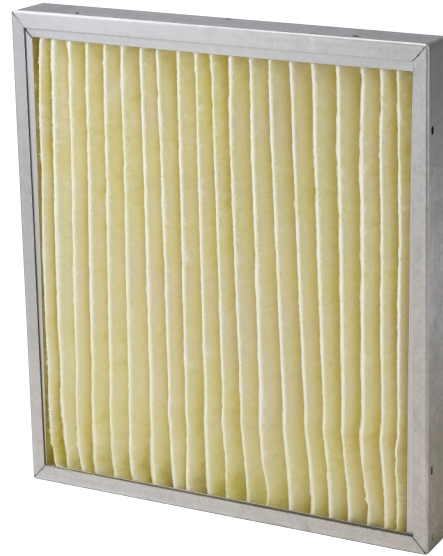
For Temperatures up to 500°F  
MERV 8  
1", 2" and 4" Thicknesses

Classified per UL Standard 900

**Frame Construction** - Aluminized steel channel with a heavy duty expanded metal screen on the air leaving side to support the media pack inside the frame.

**Media** - Ultrafine 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" and 4" Thicknesses  
Classified per UL Standard 900

**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.





### Type DP-SA (Side Access)

MERV 8  
4" Thick

Classified per U.L. Standard 900

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

**Media** - 100% nonwoven synthetic fibers. The pleats are formed with a rigid welded wire grid laminated to the air leaving side to increase pleat stability.

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

### Powerguard-SA

MERV 11  
4" Thick

Classified per UL Standard 900

**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.



### Type DP-GT

Heavy Duty Construction  
MERV 8  
2" and 4" Thicknesses

Classified per UL Standard 900

**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. 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.



### Bio•Pure Antimicrobial Treated Filters

MERV 7  
2" and 4" Thicknesses  
Bio•Pure Pleat Count (14.0 per inch - 2" sizes)  
Bio•Pure Max Pleat Count (10.0 per inch - 2" Sizes)

Classified per UL Standard 900

**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.

# Pleated Filters

For Specialized Applications

## Performance Data:

	Type DP 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"
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"
MERV	8	11	7	7	7	7	7	7	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 52.2-2007 Test Methods, Test velocity 295 FPM for 24x24x1 and 492FPM for 24x24x2 and 24x24x4 nominal size filters.
- (2) Filters may be installed with the pleats either vertical (preferred) or horizontal.

A-SPECIALPLEAT-1112



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