



# PURACELL VP & VPX

## Mini-Pleat Series

### FEATURES

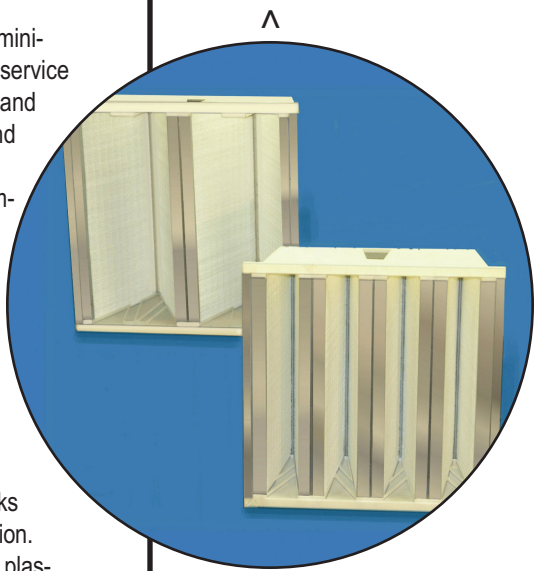
The Glasfloss Puracell VP and VPX Series extended surface mini-pleat filters offer high efficiency particulate removal, extended service life and extremely low resistance to air flow. The Puracell VP and VPX filters feature a versatile, plastic channel frame design and rigid galvanized struts for excellent strength and durability in demanding commercial and industrial applications. When compared to traditional rigid cell and box style filters, the Puracell VP and VPX Series offer superior performance, lower operating costs and significant energy savings. The Puracell VP and VPX Series are available in MERV 11, MERV 13, MERV 14 and MERV 15 efficiencies. The Puracell VP Series is also available in MERV 16 and 99.97% HEPA Grade efficiencies.

### CONSTRUCTION

The Puracell VP & VPX Series utilize nominal 1" mini-pleat packs which maximize the square footage of media in each configuration. The packs are strategically placed and bonded in a heavy-duty, plastic channel frame reinforced with rigid galvanized struts to prevent air bypass. The water repellent, high efficiency, microfiber media resists bacteria and mold growth.

### APPLICATIONS

The Puracell VP and VPX Series are ideal for a variety of applications including hospitals, office buildings, manufacturing plants and micro-electronic component assembly. The Puracell VP and VPX are direct replacements for traditional 12" rigid cell box style filters and require no modification to the existing system.



- VP Series Features 8 Pack Construction
- VPX Series Features 4 Pack Construction
- High Efficiency Microfiber
- Low Resistance = Energy Savings
- Moisture Resistant Construction
- Lighter Weight = Reduced Shipping Cost

### SPECIFICATIONS

The Puracell VP and VPX Series utilize multiple mini-pleat packs which allow low resistance to air flow and long service life. The media shall be water resistant, inorganic, wet laid glass microfiber which does not support the growth of bacteria or mold. The Puracell VP and VPX media packs are constructed by pleating a continuous sheet of media. The pleats are separated by a uniform glue bead that produces low pressure drop while maximizing the filtration area. The media packs are completely sealed and bonded within the heavy-duty injection molded plastic frame. The filters shall be rated to withstand temperatures up to 180 degrees Fahrenheit.

<b>Efficiency</b>	60-65%	80-85%	90-95%	98%	-	99.97%
<b>MERV</b>	11	13	14	15	16	-



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# PURACELL VP & VPX

## Mini-Pleat Series

### Puracell VP/VPX

BASE MODEL NUMBER	SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G		MEDIA SQUARE FEET		SIZE W x H x D NOM. MM
				VP	VPX	VP	VPX	
<b>MERV 11 - 60-65% EFFICIENCY</b>								
2424B1	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.26	.33	189.00	96.00	610 x 610 x 305
2420B1	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.26	.33	154.00	78.00	610 x 508 x 305
2412B1	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.26	.33	84.00	43.00	610 x 305 x 305
<b>MERV 13 - 80-85% EFFICIENCY</b>								
2424B2	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.29	.41	189.00	96.00	610 x 610 x 305
2420B2	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.29	.41	154.00	78.00	610 x 508 x 305
2412B2	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.29	.41	84.00	43.00	610 x 305 x 305
<b>MERV 14 - 90-95% EFFICIENCY</b>								
2424B3	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.32	.45	189.00	96.00	610 x 610 x 305
2420B3	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.32	.45	154.00	78.00	610 x 508 x 305
2412B3	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.32	.45	84.00	43.00	610 x 305 x 305
<b>MERV 15 - 98% EFFICIENCY</b>								
2424B9	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.33	.49	189.00	96.00	610 x 610 x 305
2420B9	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.33	.49	154.00	78.00	610 x 508 x 305
2412B9	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.33	.49	84.00	43.00	610 x 305 x 305
<b>MERV 16 - 95% @ .3 microns</b>								
23F23FB4	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	500	.78	-	189.00	-	610 x 610 x 305
23F19FB4	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	500	.78	-	154.00	-	610 x 508 x 305
23F11FB4	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	500	.78	-	84.00	-	610 x 305 x 305
<b>99.97% @ .3 microns</b>								
23F23FB5	24 x 24 x 12	23-3/8" x 23-3/8" x 11-1/2"	275	1.0	-	189.00	-	610 x 610 x 305
23F19FB5	24 x 20 x 12	23-3/8" x 19-3/8" x 11-1/2"	275	1.0	-	154.00	-	610 x 508 x 305
23F11FB5	24 x 12 x 12	23-3/8" x 11-3/8" x 11-1/2"	275	1.0	-	84.00	-	610 x 305 x 305

Tolerances shall be +/- 1/16" for height, width and depth. The frame depth shall not exceed 11-1/2". Performance values based on ASHRAE and in-house testing methods.  
 Recommended Final Resistance: VP=2.0" in w.g., VPX=1.5" in w.g.

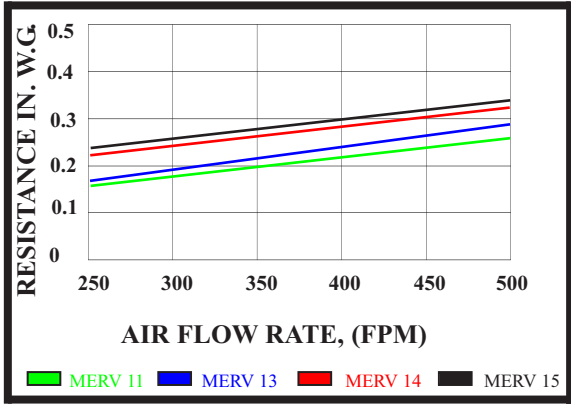
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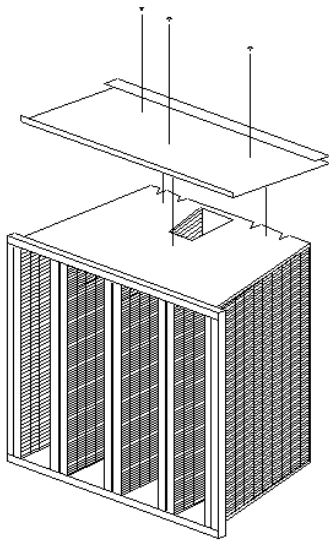
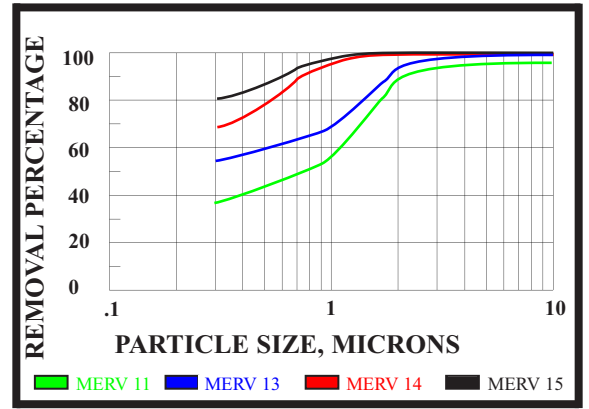
# PURACELL VP & VPX

## Mini-Pleat Series

**PURACELL VP  
STANDARD PRESSURE DROP**  
Test Filter Size 24" x 24" x 12" Nominal



**PURACELL VP/VPX  
MINIMUM PARTICLE SIZE EFFICIENCY**  
Test Filter Size 24" x 24" x 12" Nominal

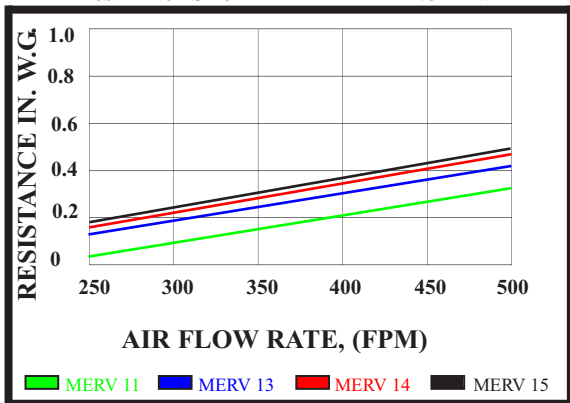


**Double Header Option:**  
Puracell VP & VPX are available in single or double header designs. Please reference the part number configuration chart on the back page to determine correct part number.

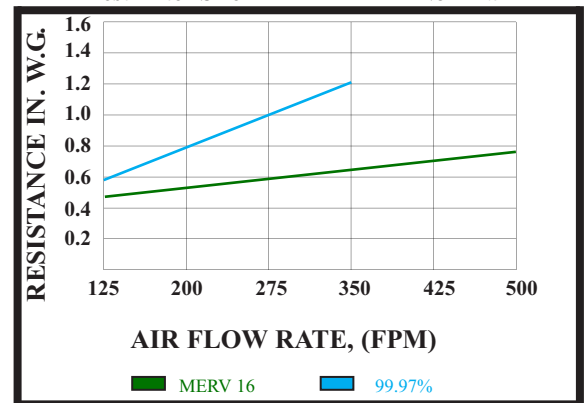


**Puracell VPX Filter**

**PURACELL VPX  
STANDARD PRESSURE DROP**  
Test Filter Size 24" x 24" x 12" Nominal



**PURACELL VP  
STANDARD PRESSURE DROP**  
Test Filter Size 24" x 24" x 12" Nominal



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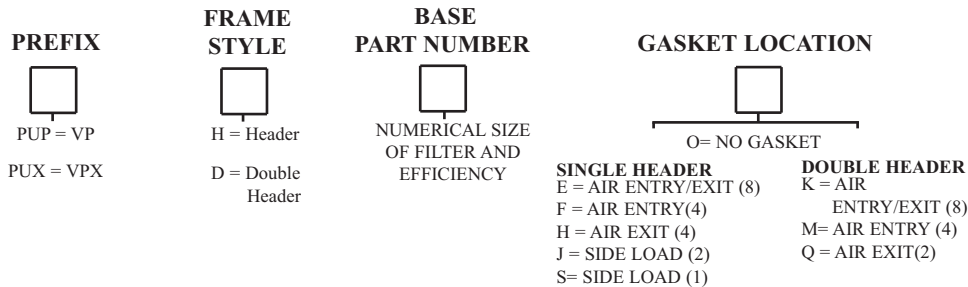
**Energy Savings & Environmental Impact Comparison**

	<u>Glasfloss Puracell VP</u>	<u>Traditional Rigid Cell</u>
MERV Rating	14	14
Initial Resistance (in. w.g)	0.32	0.68
*Recommended Final Resistance (in. w.g.)	2.0	1.5
**Fan/Motor/Drive Efficiency (%)	58.00%	58.00%
***Energy Consumption (kWh)	2649	3876
Annual CO2 Emissions (lbs)	3581	5240
<b>Annual Energy Cost (\$.08/kWh)</b>	<b>\$212.00</b>	<b>\$310.00</b>

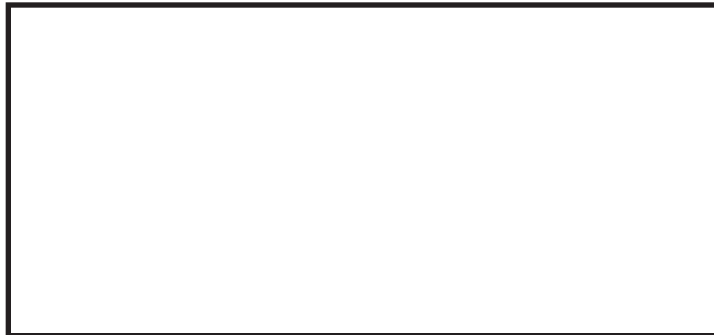
\* VP pressure drop estimated at 1.17 in. w.g. after 12 months  
 \*\* Fan/Motor/Drive Efficiency estimated & averaged at 58%  
 \*\*\* Kilowatt cost estimated at \$.08/kWh

Glasfloss Puracell VP = \$98.00 energy savings per filter or annually 31.7% savings per this comparison.

**PART NUMBER CONFIGURATION FOR VP & VPX**



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