

# Packaged Filter Unit (PFU)



The Packaged Filter Units (PFU) filter air in controlled environments, like control rooms and datacenters, to protect computer equipment and electronics from corrosion. The standard PFU is available in three stationary models (PFU- 1000, 2000, and 3000) and two portable units (PFU-Mini and PFU-Mobile) designed to fit into tight space restrictions and plug into standard electrical sockets.

As the air passes through PureAir’s adsorbent media, harmful corrosive gases are captured and permanently bound. Purified air is sent out the top of the unit where it is used to cool servers without harming electrical components while improving air quality.

PureAir can custom design a corrosion management solution to remove corrosive gases and prevent both hardware and server failure. PureAir’s equipment combined with its high-quality adsorbent media can remove more than 99% of gases that could harm electronic equipment resulting in costly repairs, downtime, and possible data loss.



MODEL	MEDIA CAPACITY	ELECTRICAL REQUIREMENTS	MAX AIRFLOW CFM (CMH)	ROOM SIZING BY MODEL AND AIR QUALITY LEVEL*		
				G2	G3	GX
PFU-Mini (Mobile, Plug In, On Casters, Refillable Trays)	56 liters (2 ft <sup>3</sup> )	120 V/230 V 50/60 Hz	850 (500)	600 m <sup>3</sup> (20,000 ft <sup>3</sup> )	300 m <sup>3</sup> (10,000 ft <sup>3</sup> )	150 m <sup>3</sup> (5,000 ft <sup>3</sup> )
PFU-Mobile (Mobile, Plug In, On Casters, Refillable Modules)	113 liters (4 ft <sup>3</sup> )	120 V/230 V 50/60 Hz	1,700 (1,000)	1,200 m <sup>3</sup> (40,000 ft <sup>3</sup> )	600 m <sup>3</sup> (20,000 ft <sup>3</sup> )	300 m <sup>3</sup> (10,000 ft <sup>3</sup> )
PFU-1000 (Stationary, Hardwired, 4 - PP12 Module Sets)	113 liters (4 ft <sup>3</sup> )	230/380/460 1ph, 3ph/50, 60 Hz	1,700 (1,000)	1,200 m <sup>3</sup> (40,000 ft <sup>3</sup> )	600 m <sup>3</sup> (20,000 ft <sup>3</sup> )	300 m <sup>3</sup> (10,000 ft <sup>3</sup> )
PFU-2000 (Stationary, Hardwired, 8 - PP12 Module Sets)	226 liters (8 ft <sup>3</sup> )	230/380/460 1ph, 3ph/50, 60 Hz	3,400 (2,000)	2,400 m <sup>3</sup> (85,000 ft <sup>3</sup> )	1,200 m <sup>3</sup> (40,000 ft <sup>3</sup> )	600 m <sup>3</sup> (20,000 ft <sup>3</sup> )
PFU-3000 (Stationary, Hardwired, 12 - PP12 Module Sets)	339 liters (12 ft <sup>3</sup> )	230/380/460 1ph, 3ph/50, 60 Hz	5,100 (3,000)	3,600 m <sup>3</sup> (127,000 ft <sup>3</sup> )	1,800 m <sup>3</sup> (64,000 ft <sup>3</sup> )	900 m <sup>3</sup> (32,000 ft <sup>3</sup> )

\*Based upon ISA S71.4 or ASHRAE TC9.9 recommendations that state the need to maintain G1 air quality to protect valuable electronics

+1 678.935.1431 | Toll Free: 866.543.7479

www.PureAirFiltration.com | 6050 Peachtree Pkwy, Suite 240-187, Atlanta, GA, 30092 USA



BENEFITS	FEATURES
<b>Powerful and Compact</b>	<ul style="list-style-type: none"> <li>• Vertical, stand-alone airflow system</li> <li>• Minimal noise</li> <li>• 850 - 5,100 CMH (500 - 3,000 CFM)</li> </ul>
<b>Highest Filtration Efficiency</b>	<ul style="list-style-type: none"> <li>• Positive seal to prevent air bypass and ensure removal of unwanted gas molecules</li> <li>• Low EMF brushless AC blower motor</li> <li>• Integral particulate filters</li> </ul>
<b>Quick Access, Low Maintenance</b>	<ul style="list-style-type: none"> <li>• Door opens for easy access to internal parts and media for maintenance and changeout</li> <li>• Low energy consumption</li> <li>• Differential pressure gauges indicate filter changes</li> </ul>
<b>Customizable</b>	<ul style="list-style-type: none"> <li>• Multiple sizes, configurations, and optional features</li> <li>• Can produce pressurization, recirculation, or both</li> <li>• Multiple options for media passes</li> </ul>
<b>Multiple Applications</b>	<ul style="list-style-type: none"> <li>• Protect critical electronics and IT equipment</li> <li>• Prevent data loss</li> <li>• Improve air quality</li> <li>• Commercial and industrial odor control</li> </ul>

The PFU Units are available in these standard configurations:

1. Protecting Critical Electronics	2. Antimicrobial Filtration
MERV 8 (G4) Dust Prefilter	One stage of Microbe-sorb adsorbent media
PureAir chemisorbant media filled in low pressure drop disposable module	99.97% HEPA Filter
MERV 14 (F7) Dust Final Filter	Final stage of FiberShield™ antimicrobial fiber fabric

#### Notable Customers:

- Barclays Bank
- Farmers Insurance
- Google
- HSCB Bank
- Intel
- Data Clean Asia
- GETCO
- Hewlett-Packard
- Innodata
- Turner Broadcasting Systems

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