

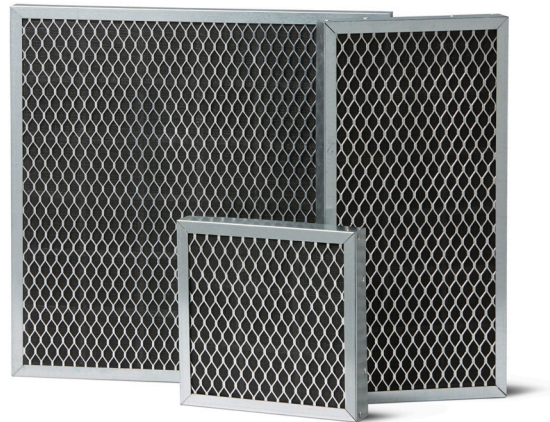
## PRODUCT BULLETIN

# PURAGRID WITH THE GRIDBLOK TECHNOLOGY

**The PuraGrid®** is a revolutionary filter that is designed to supply a large amount of chemical filtration with minimal amount of pressure drop. This media delivery system offers increased operational performance and energy savings. The PuraGrid bridges the gap between Purafil's existing line of filtration products, enabling a clean air solution for every application and market.

**GridBlok Overview:** The GridBlok is a gas-phase air filtration medium in the form of an extruded monolithic block consisting of a large number of small, parallel cells or channels. The GridBlok is composed of essentially 100% adsorbent materials allowing the entire composite structure to function as a gas filter. Due to the large number of cells in each GridBlok, the contact area between the adsorbent layer and the airstream that travels inside the cells is very large. Furthermore, the cells are parallel so that the flow is not obstructed and the pressure drop across the GridBlok is extremely low.

The cellular geometry of the extruded GridBlok provides a high surface area per unit volume important for proper impregnation of adsorptive materials. The size of the cells leads to turbulent flow and forces contaminated air into and through the gaspermeable cell walls of the GridBlok. It also provides the residence time necessary to assure optimum contact efficiency and the associated high initial and average removal efficiencies. As the air is forced through the GridBlok, removal of chemical contaminants takes place.



### Features and Benefits:

- No bypass - all of the air goes through the filter
- Low pressure drop - provides for energy savings
- Full utilization of the media - removal efficiencies and capacities comparable to granular media
- Self supporting - No Threat of Media Settling
- The GridBlok manufacturing is a closed-loop process and does not produce waste. The PuraGrid filter uses recycled frame and screen materials with a compressible partition made from 75% recycled post-consumer content.

**A GridBlok for your Application:** Five GridBlok formulations are currently available: The Purakol® GridBlok, the Puracarb® GridBlok, Chlorosorb® GridBlok, the Puracarb® AM GridBlok and the IAQ GridBlok. These formulations are effective against a number of gaseous contaminants and can be combined to provide the best performance in a wide range of applications. The performance of the GridBlok's monolithic structure-based system is comparable to, and in some cases superior to, traditional packed-bed media systems.

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# PURAGRID WITH THE GRIDBLOK TECHNOLOGY

**PURAGRID®FILTERS (IP UNITS)**

Filter Type	Filter Size, in.			Exact Size, in.			GridBlok Density lb/ft <sup>3</sup>	Media Amount per Filter		Frame Material	Airflow		Pressure Drop i.w.g.
	w	h	d	w	h	d		in <sup>3</sup>	lb		fpm	cfm	
PuraGrid 2"	24	24	2	23	23	1	27.54	533	8.5	Galvanized	500	2000	0.29
PuraGrid 2"	20	25	2	19½	24½	1	27.54	444	7.1	Galvanized	500	1736	0.29
PuraGrid 2"	20	20	2	19½	19½	1	27.54	370	5.9	Galvanized	500	1389	0.29
PuraGrid 2"	16	20	2	15½	19½	1	27.54	296	4.7	Galvanized	500	1111	0.29
PuraGrid 2"	12	24	2	11	23	1	27.54	266	4.2	Galvanized	500	1000	0.29
PuraGrid 4"	24	24	4	23	23	3½	27.54	1353	21.6	Galvanized	500	2000	0.58
PuraGrid 4"	20	25	4	19½	24½	3½	27.54	1127	18.0	Galvanized	500	1736	0.58
PuraGrid 4"	20	20	4	19½	19½	3½	27.54	940	15.0	Galvanized	500	1389	0.58
PuraGrid 4"	16	20	4	15½	19½	3½	27.54	752	12.0	Galvanized	500	1111	0.58
PuraGrid 4"	12	24	4	11	23	3½	27.54	676	10.8	Galvanized	500	1000	0.58

**PURAGRID®FILTERS (METRIC UNITS)**

Filter Type	Filter Size, in.			Exact Size, in.			GridBlok Density g/cc	Media Amount per Filter		Frame Material	Airflow		Pressure Drop Pa
	w	h	d	w	h	d		cm <sup>3</sup>	kg		m/s	m <sup>3</sup> /h	
PuraGrid 2"	610	610	51	594	594	41	0.4411	8730	3.9	Galvanized	2.5	3398	73
PuraGrid 2"	508	635	51	495	622	41	0.4411	7275	3.2	Galvanized	2.5	2950	73
PuraGrid 2"	508	508	51	495	495	41	0.4411	6063	2.7	Galvanized	2.5	2360	73
PuraGrid 2"	406	508	51	394	495	41	0.4411	4850	2.1	Galvanized	2.5	1888	73
PuraGrid 2"	305	610	51	289	594	41	0.4411	4365	1.9	Galvanized	2.5	1699	73
PuraGrid 4"	610	610	102	594	594	90	0.4411	22170	9.8	Galvanized	2.5	3398	146
PuraGrid 4"	508	635	102	495	622	90	0.4411	18475	8.2	Galvanized	2.5	2950	146
PuraGrid 4"	508	508	102	495	495	90	0.4411	15396	6.8	Galvanized	2.5	2360	146
PuraGrid 4"	406	508	102	394	495	90	0.4411	12317	5.4	Galvanized	2.5	1888	146
PuraGrid 4"	305	610	102	289	594	90	0.4411	11085	4.9	Galvanized	2.5	1699	146