

For the people, for the environment!

WETZEL

WP Pocket Filter

Product Overview

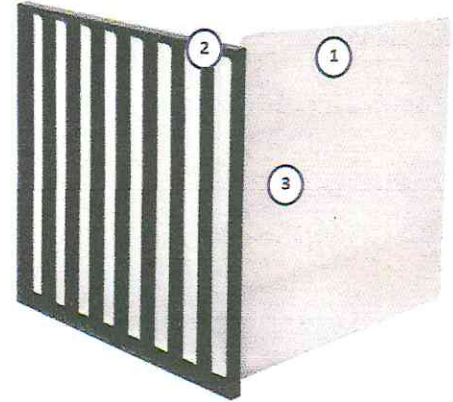
- ① Leak-free HF welding filter pockets
- ② Injection molded polyurethane frame
- ③ Strong self-supporting structure

Working range: up to 7000m³/h

Burst pressure: > 5000Pa

Customer Benefits

- The highly robust products of the WP pocket filter series offer unique operational safety and maximum filtration performance even under extreme conditions such as sudden air flow increase, tropical rain or sand storms, heavy snowfall or extremely high dust loading.
- The combination of different layers of non-breaking synthetic fibers and the progressive filter media structure ensures highest filtration quality, low pressure drop over the lifetime and thus cost effective operation.



Product Features

- Aerodynamically optimized filter pockets are foamed into a polyurethane header frame. This extremely stable design ensure leakfree operation.
 - The inner metal support structure in the PU frame prevents from frame breakage and deformation.
 - The self supporting filter pockets are leakfree welded and burst proof > 5000 Pascal.
 - Integrated welded-in diamond shaped spacers guarantee optimum air flow through the pockets and 100% use of the installed filter surface.
 - The materials used (filter media and frame) are self-extinguishing according to DIN 53438 (F1) and have a UL certificate.
 - WP filters can be operated up to 70°C and 100% relative humidity.
 - The consistently high quality of every single filter is guaranteed by our modern quality management system in accordance with ISO 9001 and ISO 14001.
 - Filters are silicone free and passed the paint compatibility test
- All filters are available in the usual standard dimensions.
- Full size versions (592x592mm) are delivered with 6 or 8 pockets.
 - Half size versions are delivered with 3 or 4 pockets.

Application

- WP pocket filters are used in the supply, exhaust and recirculation air filtration of all types of ventilation systems, especially in the automotive industry. In combination with Wetzel F8/F9 Compact filters impressive filtration results can be achieved.
- The extraordinary stable construction of WP filters and the low pressure drop development over the entire service combined with the extremely high dust holding capacity make WP filters the ideal protectors of gas turbines and compressors in the pre-filtration stage.
- The microbiologically inactive media and frame components predestine the WP series as ideal filter for the use in supply, exhaust and recirculated air filtration systems in ventilation systems of the food and beverage industry like industrial bakeries, prefiltration in dairy industry, cooked meal production plants etc.
- WP filters are used in demanding air conditioning applications on cruise ships, laboratories, hospitals, airports, production workshops and machine rooms.
- WP60 filters are well established as pre filters in oil mist filtration systems.



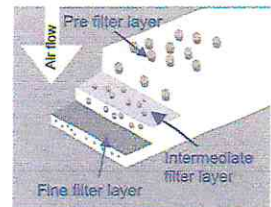
PU frame for highest operational safety



Inner pocket design for optimum air flow



Welded pockets & round edges to avoid injuries



3-layer media allows customized filter design



Wetzel Technologies (Shanghai) Co., Ltd.
No.5343, Nanting Rd., Jinshan District, Shanghai, China

Phone
+86-21-3728 3500

Email
Sales@wetzel-tech.com

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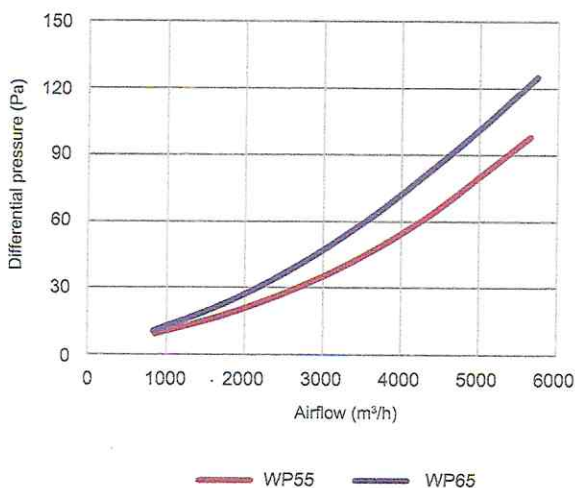
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Technical Data

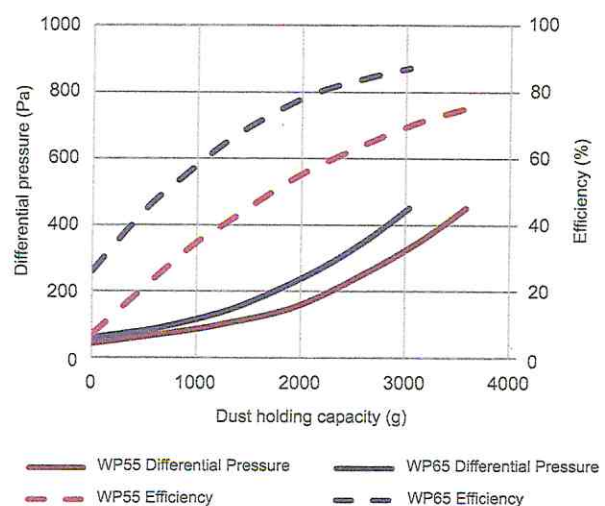
Parameter	Unit	WP50	WP55	WP60	WP65
EN779 2012	-	M5	M5	M6	M6
ASHRAE52.2 2017	-	MERV 8	MERV 9	MERV 10	MERV 11
ISO 16890	-	ePM10 50%	ePM10 55%	ePM10 60%	ePM10 73%
Dimension	mm	592 x 592 x 600 *	592 x 592 x 600 *	592 x 592 x 600 *	592 x 592 x 600 *
No. of pockets	-	6	6	8	8
Airflow	m ³ /h	4250	4250	4250	4250
Initial pressure	Pa	62	76	72	83
Recommended final pressure	Pa	450	450	450	450
Average efficiency	%	47	59	62	72
Average arrestance	%	>95	>97	>99	>99
Dust holding capacity (@800pa)	g	5540	5110	5250	4750
Surface area	m ²	4.6	4.6	5.8	5.8

* 592x592x310mm and 592x592x510mm are available.

Airflow and differential pressure curve



Dust holding capacity and differential pressure curve
Dust holding capacity and efficiency curve



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Wetzel Technologies (Shanghai) Co., Ltd.
No.5343, Nanting Rd., Jinshan District, Shanghai, China

Phone
+86-21-3728 3500

Email
Sales@wetzel-tech.com

SIAM FILTER
SOLUTIONS CO., LTD.