



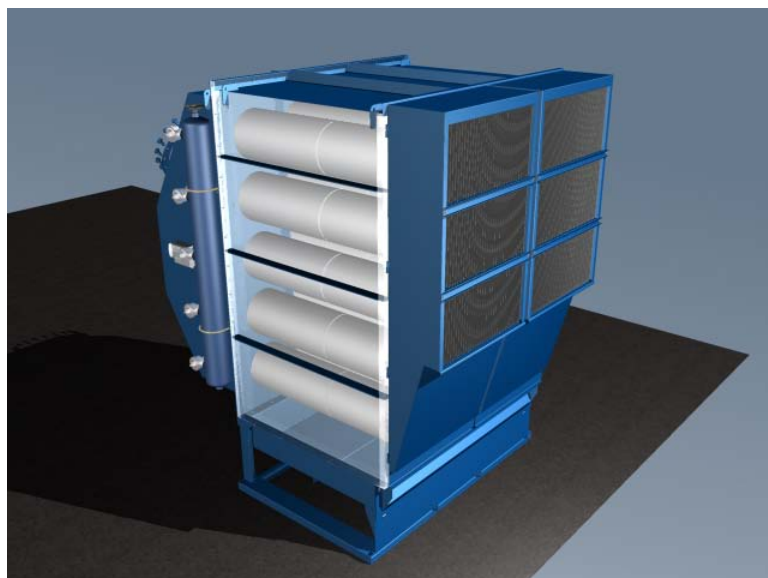
# D-Power-Pak

*Barrier filter with automatic cleaning*

- *Intake filter for gas turbines, blowers compressors and Diesel engines*

- *Self-cleaning*

- *Few maintenance*



The D-Power-Pak is an automatic self-cleaning filter using dry filter cartridge as the filtering media requiring little maintenance.

## **Application**

- Charge air filtration for areas with high dust concentrations.
- Intake filters for small gas turbines, compressors, blowers and Diesel engines.

## **Principle of operation**

Inlet air enters the D-Power-Pak through a vertical vanes weather louver and is treated by filter cartridges secured by bolting on a mandrel fixed on the separation platform.

A solid state printed circuit timer launches the reverse cleaning sequence

by operation of the diaphragm valves fitted on distribution pipes located downstream of the cartridges. The cleaning starts from the upper row up to the lower row.

The collected dust falls down into the dust tank which could be cleared out by sweeping from time to time through the hinged access frontal hatch.

## **Options**

- Safety pressure switch by-passing the timer.
- Differential pressure transmitter to send the indication of the resistance to the DCS.
- Air compressor to provide reverse pulse air and treatment station.
- Cartridges 100% polyester for area with high humidity.

## **Construction**

The D-Power-Pak is constructed from EZ steel plates for industrial application and consists of the following elements:

- A rigid base frame
- Two hinged vertical weather louvers
- Filter elements and mandrels
- Automatic cleaning system
- Outlet plenum and counter flange(s).

The D-Power-Pak is available in standards sections with 3 or 4 cartridges in wide involving widths of 1911, 2419 and 2927mm.

It is available in standard heights from 2 rows up to 8 rows from 2005mm up to 5055mm with an increment of 508mm.

*Better Air is Our Business®*



## D-Power-Pak

### Performance Data:

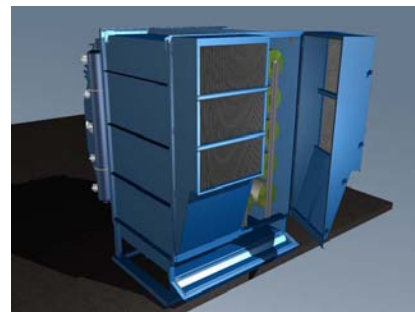
Dust Arrestance:	
EN779 Class	F6/F8
ASHRAE Test	65%/85%
Using Arizona Road Dust Fine	>99%
	MERV 13
Average Operating Resistance:	
Initial	From 200Pa up to 300 Pa
Final	750 Pa

### Selection chart:

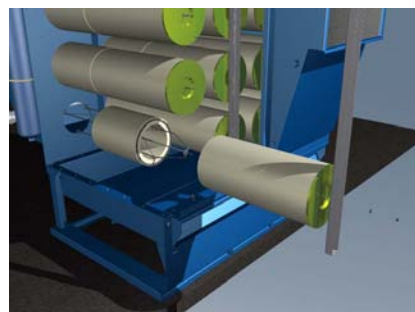
Width designation		W3	W4	W5
Overall width (mm) A		1911	2419	2927
Height designation	Height (mm) B	Airflow m <sup>3</sup> /h		
H2	2005	15000 / 16200	19960 / 21600	
H3	2515	22400 / 24300	29950 / 32400	
H4	3020	29950 / 32400	39940 / 43200	
H5	3530		49900 / 54000	
H6	4040		59900 / 64800	
H7	4545		69900 / 75600	
H8	5055			99840 / 108000

Initial pressure drop : 200/300 Pa  
 Compressed air requirement : 3.70 Nm<sup>3</sup>/h – 6/7 bar - Instrumentation quality

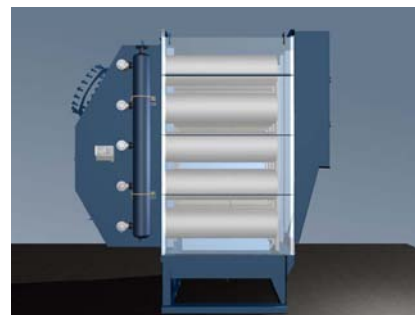
In case of frequent high humidity periods, it is recommended to select the D-Power-Pak at the lowest airflow.



Maintenance



Cartridge installation



Lateral view



Diaphragm valves and Sequencer

## Cartouches Durapulse

Several qualities of media are available to meet specific environmental conditions and application requirements:

- Blend 80% cellulose, 20%polyester
- Blend 100% polyester
- Others on request



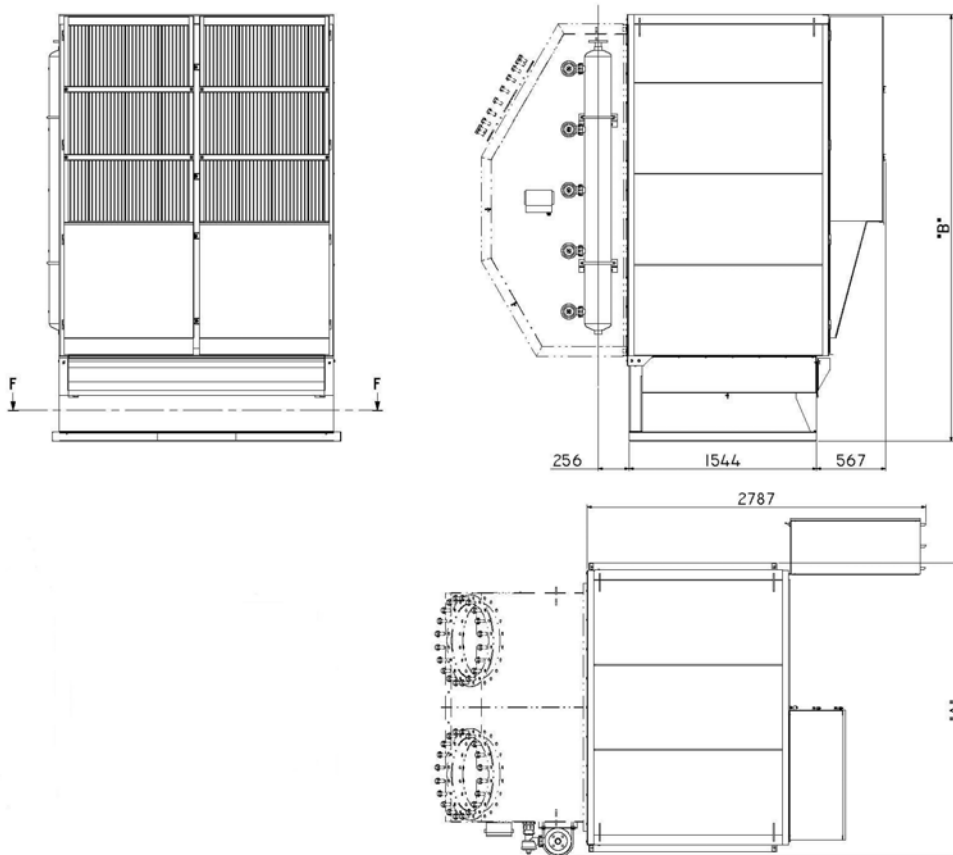
### Dimensions:

	Length	Inlet Diameter	Outlet Diameter	Weight	Surface Area
(A)	34"5 (874 mm)	293 mm	406 mm	10,4 kg	33,17 m <sup>2</sup>
(B)	22" (557 mm)	293 mm	406 mm	7,3 kg	21,13 m <sup>2</sup>

**Recommended face velocity :** 1,25 - 1,6 cm/s

## D-Power-Pak

### Dimensions:



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