

Compressor Air Cleaner Systems with PCD PowerCore® Filtration Technology

High efficiency air cleaner design is smaller, lighter, easier to service and most importantly, designed specifically for compressors.



Product Description:

Patented Air Cleaner Design

- Standard models cover a wide range of airflow requirements
- · Mounts vertically or horizontally
- Compact system size plus increased efficiency
- Smaller, lightweight filters are easy to service
- RadialSeal™ sealing technology
- · Easy to install
- Lower shipping inventory, freight and storage costs due to reduced size
- · Standard restriction indicator port
- Rugged construction
- · Powder-coated black finish
- · Aftermarket protection

Serviceability

- Environmentally friendly, incinerable and metal-free element
- Easy to service
- Cleaner servicing—unique design encapsulates containment during removal

PowerCore® Structure

Inlet Cone (optional) - Consider if compressor is outdoors



- Outlet Cone also available with filter service indicator tap
- Easiliy removed with two clamps



Filter Sleeve

Primary Filter

Safety Filter





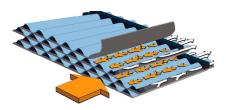
- Filter Sleeve
- Primary Filter w/PowerCore Filtration Technology
- optional Safety Filter (recommend for vertical application)



Outlet Cone

(optional)

A wide variety of elbows, clamps and hoses available.



PowerCore® Filter Media

For the same size filter

PowerCore

Conventional

PowerCore® Capacity Comparison

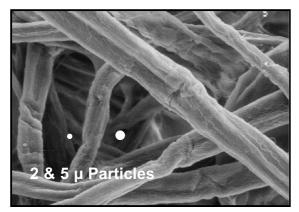
Technical alterations reserved (R06 2008/08/22)



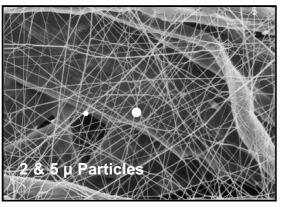
Compressor Air Cleaner Systems with PowerCore[®] Filtration Technology

Media Advantages

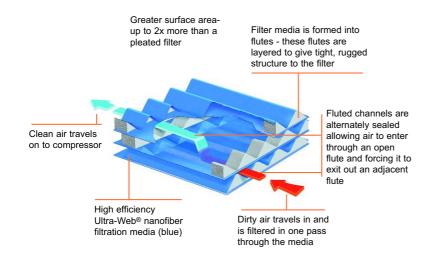
The Ultra-Web[®] nanofiber technology has a web-like filtering layer applied over the surface of specially formulated cellulose media. This causes sub-micron contaminants to load on the surface. In field tests, filters using Ultra-Web[®] nanofiber technology hold up to five times more contaminant and allow less contaminant to pass through the media than comparably sized cellulose air filters. Ultra-Web[®] fibers have sub-micron diameters and small interfibre spaces, which result in more contaminant being captured and lower restriction. This results in superior air / oil separator protection and life extension.



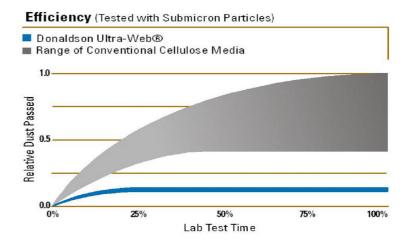
Cellulose Air Filter Media



Ultra-Web® Filter Media



PowerCore® with Ultra-Web® Efficiency



PowerCore® Media Set Up:

The PowerCore® filtration technology's straight-through fluted filter design offers:

- Improved filtration efficiency -The use of Ultra-Web® nanofiber filtration media has demonstrated results of 10 times cleaner air than conventional filter media.
- Improved compressor protection -No media movement, expansion, contraction or bunching, with less dust and dirt passed on to the compressor.
- Improved air / oil separator life through reduced ingestion of contamination.
- Improved contaminant encapsulation -Dust and dirt won't dislodge during servicing.
- Improved handling and maintenance -Lighter and smaller than conventional filters.
- Improved disposal ease -No metal, incinerable.

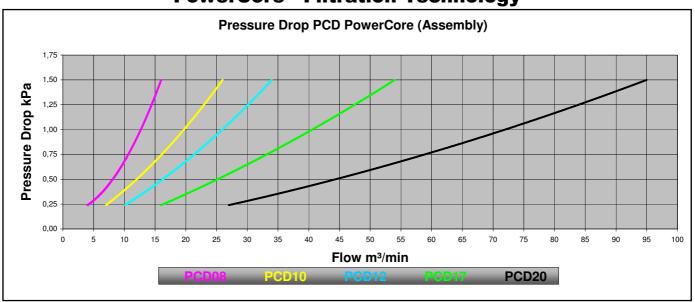


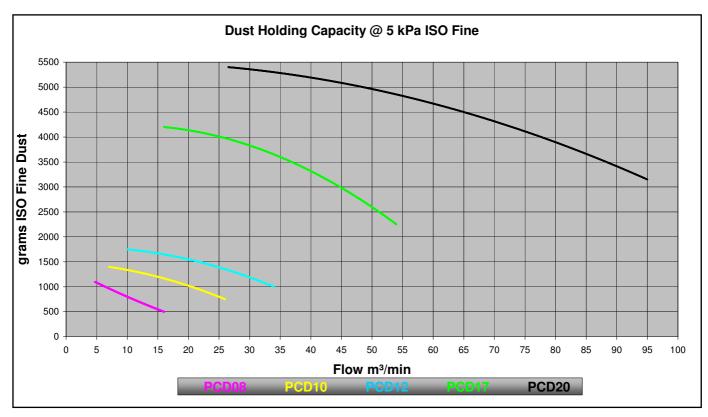
Compressor Air Cleaner Systems with PowerCore[®] Filtration Technology

	Size 8" - 12	2"			
	Air Intake Filte	ers			
Product	PC-D080021	PC-D100028	PC-D120032		
	8" Air Intake Filter	10" Air Intake Filter	12" Air Intake Filter		
Application	Compressor Air Intake	Compressor Air Intake	Compressor Air Intake		
Media type	Ultra-Web [®]	Ultra-Web [®]	Ultra-Web [®]		
Flow Direction	Axial Flow	Axial Flow	Axial Flow		
Sealing	Radial Seal TM	Radial Seal TM	Radial Seal TM		
Airflow (m ³ /min)	4.6 - 15.4	7.2 - 26.0	10.5 - 34.0		
Pressure Drop @ max. Airflow (Pa)	1500	1500	1500		
Gravimetric Efficiency @ ISO Fine dust (%)	> 99.95	> 99.95	> 99.95		
	Air Intake Eleme	ents			
Product	PP-P040363	PP-P040364	PP-P040365		
	8" Air Intake Element	10" Air Intake Element	12" Air Intake Element		
	Options		,		
Product	P041485	P041354	P041411		
	Inlet Cone	Inlet Cone	Inlet Cone		
	H770090	H770090	H770089		
	Rain Hood	Rain Hood	Rain Hood		
	on request	on request	on request		
	Pre Cleaner	Pre Cleaner	Pre Cleaner		
	X002251	X002251	X002251		
	Restriction Indicator	Restriction Indicator	Restriction Indicator		
	xxxxxxxx	P547520	xxxxxxxx		
	Safety Element	Safety Element	Safety Element		
	Size 17" - 2	0"			
	Air Intake Filte	ers			
Product	PC-D170033	PC-D200050			
	17" Air Intake Filter	20" Air Intake Filter	-		
Application	Compressor Air Intake	Compressor Air Intake	-		
Media type	Ultra-Web [®]	Ultra-Web [®]	-		
Flow Direction	Axial Flow	Axial Flow	-		
Sealing	Radial Seal TM	Radial Seal TM	-		
Airflow (m ³ /min)	16.0 - 54.0	27.0 - 95.0	-		
Pressure Drop @ max. Airflow (Pa)	1500	1500	-		
Gravimetric Efficiency @ ISO Fine dust (%)	> 99.95	> 99.95	-		
	Air Intake Eleme	ents			
Product	PP-P040366	PP-P042939			
	17" Air Intake Element	20" Air Intake Element	-		
	Options				
Product	P041499	P042940			
. 100001	Inlet Cone	Inlet Cone	-		
	H001053	H770082			
	Rain Hood	Rain Hood	-		
	on request	on request			
	Pre Cleaner	Pre Cleaner			
	X002251 X002251				
	Restriction Indicator	Restriction Indicator	-		
	XXXXXXXX	P546250			



Compressor Air Cleaner Systems with PowerCore[®] Filtration Technology





PowerCore [®] Energy Savings						
	Initial Restriction	1000 Pa Savings = 1% Efficiency or Capacity Improvement.				
Traditional Air Cleaner	1500 Pa					
PowerCore	500 Pa	Every 1000 Pa reduction adds approximately 1% to the compressor efficience!				
Savings	1000 Pa	Compressor emclence:				

Example - Traditional Air Cleaner:

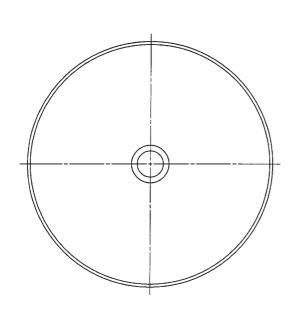
1% effiency loss on 100 kW compressor = 1 kW power loss.

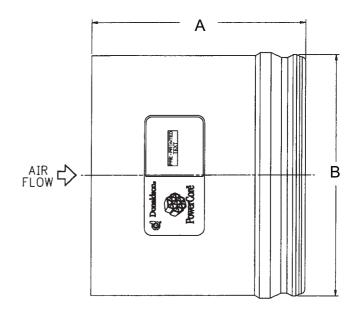
Assuming energy costs of 8 cent/ kWh and 8000 OPH/ year, 1 kW loss = 640 €/ year higher energy cost + earlier wearout + less component lifetime.



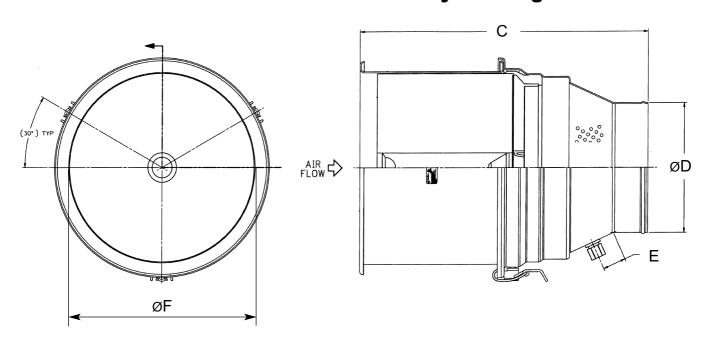


PCD PowerCore® Element Drawing





PCD PowerCore[®] Assembly Drawing



Size	A		В		(C Ø D (outer dia			eter) E		ø F (inner diameter)	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
8"	181.1	7.13	204.4	8.05	316.9	12.48	139.7	5.50	25.4	1.00	205.0	8.07
10"	181.1	7.13	251.3	9.89	344.5	13.56	152.4	6.00	38.2	1.50	256.0	10.08
12"	181.1	7.13	300.0	11.81	352.5	13.88	177.8	7.00	44.4	1.75	307.0	12.09
17"	181.1	7.13	426.5	16.79	435.0	17.12	203.2	8.00	57.9	2.28	427.0	16.81
20"	206.1	8.11	508.0	20.0	446.0	17.56	254.0	10.00	101.7	4.00	512.0	20.16