

NORDIC AIR FILTRATION

# Industrial Filtration Solutions

*We take the dust out of industry™*



SPECIALIZED IN INDUSTRIAL FILTRATION FOR A WIDE RANGE OF INDUSTRIES



a midwesco company



*Nordic Air Filtration solutions are installed throughout the world*

**SPECIALIZED IN INDUSTRIAL AIR FILTRATION SINCE 1990**

Nordic Air Filtration is a high technology filter manufacturer supplying filters for resellers and OEMs throughout the world. We supply more than 200.000 filters for new filter houses annually through our OEM partners.

With a range of more than 4000 different filters and 20+ types of high quality filter medias, Nordic Air Filtration provides air filtration solutions for various industries and dust types, including abrasive, toxic and explosive dust. We specialize in dust and fumes from cement, metal/aluminum, food & beverages, wood work, chemicals, powder coating, plasma/laser cutting, sand blasting, textiles, welding and casting. In addition to that, we offer customized filter solutions and on-site technical field support.

At our production site in Denmark, our highly skilled R&D department ensures certified high quality products in line with our primary goal: To continuously develop innovative filtration solutions that increase performance and reduce cost for our customers.

Since 1998, Nordic Air Filtration has been part of Midwesco Filter Resources Inc. - a global provider of industrial air filtration solutions.

**NORDIC AIR FILTRATION - ISO9001 CERTIFIED**  
**A high technology filter manufacturer delivering quality on time**



**Material sourcing**  
 > Global sourcing of raw material  
 > Vendor and material quality approved before sourcing  
 > Quality inspection upon arrival

**R&D**  
 > Highly skilled R&D department  
 > High performance products  
 > Customized filter solutions

**Manufacturing**  
 > In-house air filter production  
 > Lean manufacturing  
 > Highly skilled workers

**Quality**  
 > Final inspection of the filters  
 > Our products are tested according to EN779, EN1822, ARAMCO or ASHRAE

**Quality on time**  
 95% on-time deliveries  
 We are determined to reach 100%

**Satisfied customer**

 = ISO9001 program guarantees optimized and standardized manufacturing processes



# Sustainable and financially viable solutions

# Industrial filtration solutions

“

At Nordic Air Filtration, it is our primary goal to develop environmentally friendly solutions, which create higher efficiency and a better working environment for our customers.

Technical know-how, high performance filters, longer filter life cycles, 100% recyclable filters and customized filter solutions to accommodate any specific needs, are some of the tools we use to achieve this...

”

André Radley Grundahl,  
CEO at Nordic Air Filtration



**CEMENT**



**METAL / ALUMINUM**



**FOOD & BEVERAGE**



**WOOD**



**CHEMICAL**



**POWDER COATING**



**PLASMA / LASER CUTTING**



**SAND BLASTING**



**TEXTILE**



# Wide range of high quality filters

RD cartridge  
> Suitable for Mahle collectors



DIN cartridge  
> Conical & cylindrical cartridge  
> Open/close & open/open  
> Welded design  
> Helix design providing increased strength  
> Outer straps for higher dynamics in the cleaning/pulsing process



## Environmentally friendly filters 100% recyclable

DIN ABS cartridge  
> 100% ABS



JET ABS Cartridge  
> 100% ABS  
> 3-lug or 4-lug  
> Dirty - clean side removal



Bottom and top loader  
> Dirty - clean side removal



JET cartridge  
> Aluminum or galvanized  
> 100% ABS  
> 3-lug or 4-lug  
> Dirty - clean side removal





# Wide range of high quality filters



CH / Clean Side Removal cartridges  
 > Conical & cylindrical cartridge



Dustmaster

Steck cartridge

MULTIFIT.  
 An alternative to bag filter  
 > More information on page 10-11



WAM Thread cartridge



Customized design  
 > Nordic Air Filtration manufactures exclusive designs based on specific customer requests  
 > Example: Plymovent custom design



Twist-Lock filter



Farr Tenkay filter



Flat cell filters

Wam

DCE Unicell

DCE Dalamatik

Bwf

Herding

- > FULLY RECYCLABLE /INCINERABLE SOLUTIONS TO REDUCE DISPOSAL COST
- > ANTI-COLLAPSE PLEAT SPACERS FOR OPTIMAL PERFORMANCE
- > ALL FILTERS CAN BE EQUIPPED WITH NORDIC AIR FILTRATION'S MEDIA SELECTION
- > CUSTOM DESIGN TO MEET YOUR SPECIFIC REQUIREMENTS

# MULTIFIT

substitutes bag filter

- easier installation <
- increased durability <
- better efficiency <
- energy savings <

Nordic Air Filtration's unique MULTIFIT filter can be retrofitted into existing bag collectors saving energy & increasing air volume and efficiency

- > Reduce amount of filters while maintaining the same filtration efficiency
- > 2-3 times larger filter area per filter compared to bag filters
- > Very high efficiency due to surface filtration
- > Increased durability and longer life cycle
- > Reduction of downtime and maintenance cost
- > Polyester media and PU end caps in the bottom prevent abrasion & leaks

Easy installation in any hole plate ranging from 153 mm to 167 mm diameter.



A Insert adapter in hole plate.

B Adapter ensures perfect fit.

C Insert Multifit cartridge in hole plate.

## BAG FILTER VS. MULTIFIT

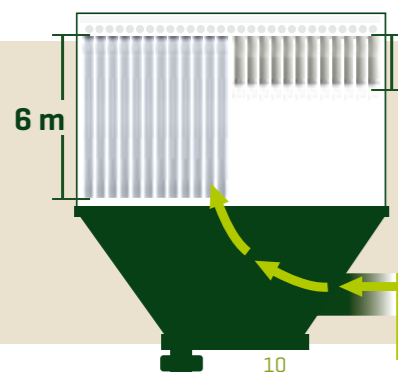
### CONVENTIONAL BAG FILTER

### MULTIFIT PLEATED BAG CARTRIDGE

Filter length	Max. 8 meters	Max. 2 meters
Filter surface area	Small	2-3 times larger than bag filter
Life cycle	Acceptable	Excellent
Installation/Maintenance	More (separate cage & short life cycle)	Less (integrated cage & long life cycle)
Abrasion/Leaks	Can occur	Leak proof (Polyester media & PU end caps in the bottom)
Emission level	High	Low (less than 2mg/m <sup>3</sup> )
Power consumption	High	Low
Air required for optimum cleaning	5-6 ltr. per 1 m <sup>2</sup> bag filter	3-4 ltr. per pleated bag filter
Efficient pulsing	6 bar	3,5 bar
Air permeability	Acceptable	Excellent
Pressure drop	High	Low
Investment in filter house	High (large bag collector)	Less (small bag collector)

## A 2 METER MULTIFIT FILTER CAN SUBSTITUTE A 6 METER BAG FILTER

BAG FILTERS UP TO 8 METERS



2 m MULTIFIT PLEATED BAGS UP TO 2 METERS

- > Short filters require small bag collector
- > Polyester media and PU end caps in the bottom prevent abrasion/leaks

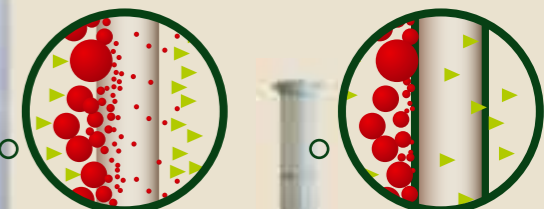
High velocity airflow containing dust particles enters bag collector

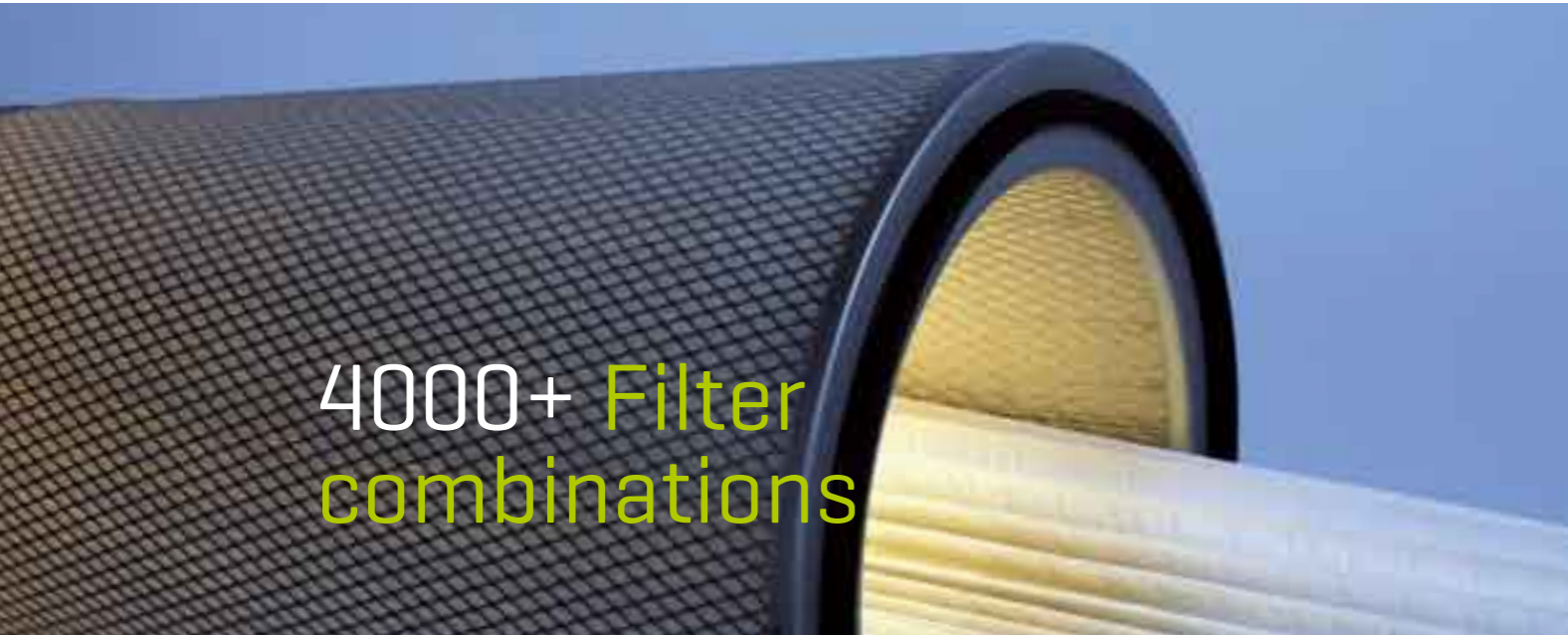
## DEPTH VS. SURFACE FILTRATION

- Nordic Air Filtration's Multifit cartridge is a surface filtration cartridge. The benefits of surface filtration is
- > Less accumulation of dust
  - > Less pressure drop
  - > Longer filter life cycle

DEPTH

SURFACE





4000+ Filter combinations



In house production & control

**MESH**



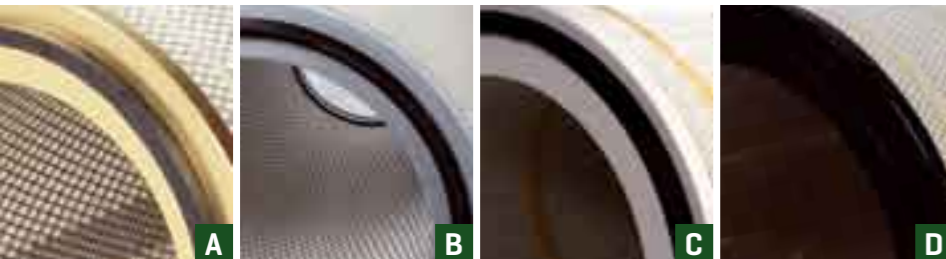
- A** Metal/plastic inner spiro.  
Plastic = 100% recyclable
- B** Expanded welded metal inner/outer mesh  
> Galvanized  
> Stainless steel  
> Powder coated steel
- C** Expanded Helix metal inner/outer mesh  
> Stronger design

**PLEATER**

Nordic Air Filtration has a variety of pleating machines enabling  
> A wide range of filters  
> High production capacity



**END CAPS**



- A** Galvanized steel
- B** Stainless steel
- C** Powder coated
- D** Plastic ABS - non corrosive/100% recyclable

**PLASTIC AND METAL SPIRO**

Nordic Air Filtration manufactures expanded metal spiro and recyclable plastic spiro in-house  
> Customized solutions



**STRAPS**



- A** Strap branded with your logo  
> Glued strap
- B** Weltech strap (FDA approved)  
> Ultrasonic welded  
> Minimizes trapping of dust behind strap  
> Suitable for high temperatures, acid, hydrolysis or alkali substances, etc.

**WELTECH**

Nordic Air Filtration's Weltech strap  
> Ultrasonic welded – no chemicals or glue used  
> Secures consistent pleat spacing  
> Minimizes trapping of dust behind strap



**GASKET**



- A** Seamless foam gasket
- B** EPDM
- C** Silicone

**MEDIA PLEAT SPACING**

In-house production of anti-collapse pleat spacer guarantees  
> High efficiency filters  
> Low pressure drop  
> Better air flow



+ YOUR CHOSEN MEDIA TYPE

# Media quality and treatment makes the difference

- your guide\* to our  
standard products

Industry	Dust / Fumes	137	137 ALU	138 FH	170	170 ALU	909	909 FC	909 ALU	909 ANFC	806	806 FC	806 ALU	806 ANFC	807	807 FC	807 ALU	807 ANFC	900	900 ALU	800	800 ALU	Remarks	
	50% welding / 50 % grinding																							
	Welding fumes - dry																							
	Welding fumes - oily																							Prekote™ needed
	Flame Spray																							Off-line cleaning
	Foundry																							
	Zinc																							
	Powder coating																							
	Plasma / laser cutting																							Prekote™ needed
	Sand blasting – sand																							
	Sand blasting – glass																							Moisture resistant
	Sand blasting – enamel, steel & aluminum																							
	Grinding																							
	Unspecified dust with no smoke																							



Industry	Dust / Fumes	137	137 ALU	138 FH	170	170 ALU	909	909 FC	909 ALU	909 ANFC	806	806 FC	806 ALU	806 ANFC	807	807 FC	807 ALU	807 ANFC	900	900 ALU	800	800 ALU	Remarks	
	Milk powder																							
	Spice																							Approved for ATEX
	Sugar																							Approved for ATEX
	Rice																							
	Tobacco																							
	Coffee																							Approved for ATEX
	Cocoa																							Approved for ATEX
	Flour																							Approved for ATEX
	Cotton																							
	Paper																							
	Chalk																							
	Cement																							
	Sawdust																							

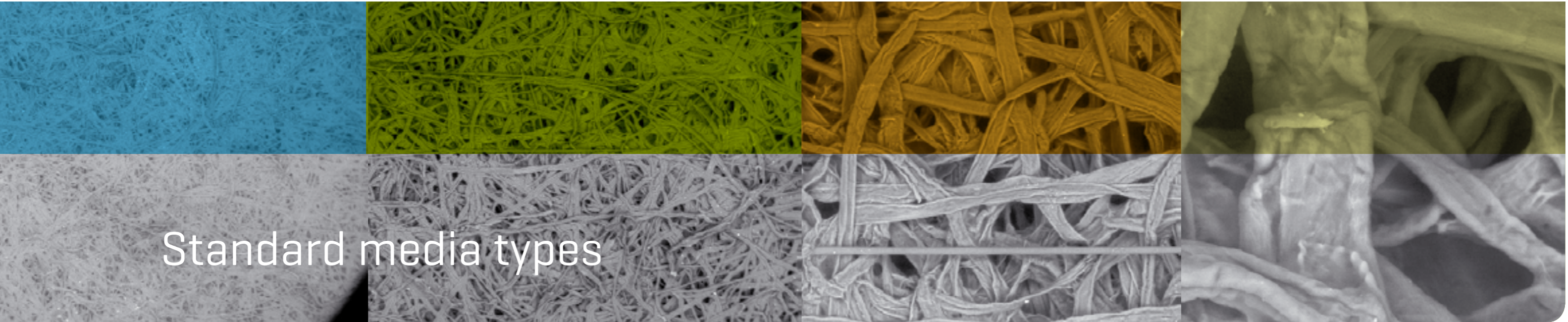


\* Please note: This is a guide indicating recommended media choice. However, environmental issues, humidity etc. might require a different media solution. Please always confer with Nordic Air Filtration's sales team before ordering.

On page 16 and 17, you will find more information about the listed medias. Nordic Air Filtration provides filtration solutions for several other dust types and our team is ready to guide you to the most efficient solution for dust containing abrasives, amino acids, cadmium, carbon, cast iron, ceramic, clay, coal, composite materials, copper, cosmetic powder, food additives,

graphite, inorganic chemical products, iron oxides, iron, lead, lead oxides, magnesium, marble, mica, mineral wool, mortar, nylon, phenyl resins, plastic, polyester, polyurethane, polyethylene, polypropylene, porcelain, pvc, quartz, resin, silica, soda, sodium hydrate, starch, talc, titanium, vitamins, etc.





# Standard media types

Description			Specification				Chemical resistance				
Name	Material	Treatment	Weight gram/m <sup>2</sup>	Air.perm. m <sup>3</sup> /m <sup>2</sup> /hour	Thickness mm	Max.Temp. Celsius	Oil/water	Hydrolysis	Acid	Alkali	Dust release
600	Oil-Mist absorbent	-	300	1540	4.50	80°	**	**	*	*	**
136 NANO	87% cellulose/ 13% synthetic	Nano	136	870	0.40	80°	**	**	*	*	****
137	80% cellulose/ 20% synthetic	-	130	640	0.39	80°	*	*	*	*	***
137ALU	80% cellulose/ 20% synthetic	Conductive	140	560	0.40	80°	*	*	*	*	***
138FH	80% cellulose/ 20% synthetic	Flame retardant	140	510	0.32	60°	*	*	*	*	**
138ALUFH	80% cellulose/ 20% synthetic	Conductive+Flame retardant	140	510	0.32	60°	*	*	*	*	**
170	100% synthetic	-	170	890	0.50	110°	**	*	**	*	****
170ALU	100% synthetic	Conductive	170	855	0.50	110°	**	*	**	*	****
800	100% synthetic	ePTFE membrane	280	190	0.80	120°	****	**	**	**	****
800ALU	100% synthetic	Conductive+ePTFE membrane	300	190	0.80	120°	****	**	**	**	****
806	100% synthetic	-	260	530	0.60	120°	**	*	**	*	****
806FC	100% synthetic	PTFE	260	470	0.60	120°	**	*	**	*	****
806ALU	100% synthetic	Conductive	270	490	0.62	120°	**	*	**	*	****
806ANFC	100% synthetic	Conductive+PTFE	270	480	0.62	120°	**	*	**	*	****
807	100% synthetic	-	260	540	0.56	140°	**	*	**	*	****
807FC	100% synthetic	PTFE	260	530	0.56	140°	**	*	**	*	****
807ALU	100% synthetic	Conductive	270	520	0.59	140°	**	*	**	*	****
807ANFC	100% synthetic	Conductive+PTFE	270	510	0.59	140°	**	*	**	*	****
900	100% synthetic	ePTFE membrane	240	290	0.54	140°	****	****	**	**	****
900ALU	100% synthetic	Conductive+ePTFE membrane	260	230	0.58	140°	****	****	**	**	****
909	100% synthetic	-	240	490	0.55	140°	**	*	**	*	****
909FC	100% synthetic	PTFE	242	480	0.55	140°	**	*	**	*	****
909ALU	100% synthetic	Conductive	241	420	0.56	140°	**	*	**	*	****
909ANFC	100% synthetic	Conductive+PTFE	243	460	0.56	140°	**	*	**	*	****

\*Fair \*\*Good \*\*\*Very good \*\*\*\*Excellent

PTFE = Media is coated on the outside

ePTFE membrane = Media contains a membrane - the most dust resistant solution available

# FILTER CLEANING

## TRIMEC VALVES, HEADER TANKS & CONTROLLERS



### Valves

High quality diaphragm valves:  
 > Excellent response time  
 > Anodized aluminium valves, stainless steel bolts and diaphragm in impregnated textile fibers prevent corrosion and prolong life



### Header Tanks

Wide range of header tanks including:  
 > Patented high efficiency "Total Immersion" system  
 > Stainless steel header tanks  
 > All tanks meet European PED, ATEX, GOST-R requirements



### NEWS: Domino Minitank

Easy installation and energy efficient  
 The unique mini tank is designed for sequential pneumatic cleaning of cartridge filters  
 > Easy to install  
 > Energy efficient  
 > Installed as stand-alone or in series  
 > Max temperature: 70° Celsius  
 > Max pressure: 7 bar  
 > Capacity: 7 litres



### Electronic controls

PCP and PRP models. Whether you want flexibility or simplicity in adjusting the cleaning cycle, differential pressure or malfunction alarms, Trimex has the solution  
 > Advanced microprocessor technology  
 > All controllers meet the CE Directives

## ACCESSORIES

### PREKOTE® protects your filters

Nordic Air Filtration's PREKOTE® creates a highly permeable, protective layer on the surface of the filter media and increases filter performance  
 > Improves dust cake release  
 > Ensures longer filter life  
 > PREKOTE® is ideal for applications where moisture and oil are present



Venturi – more efficient pulse cleaning  
 Venturi is a nozzle diverting more air into the filter during pulse cleaning



Cleaning Wing  
 Cleaning Wing is an alternative to pulse cleaning



MartinOrsted.dk

NORDIC AIR FILTRATION



# Industrial Filtration Solutions

*We take the dust out of industry™*



## SALES

[sales@nordic-air-filtration.com](mailto:sales@nordic-air-filtration.com)

[WWW.NORDIC-AIR-FILTRATION.COM](http://WWW.NORDIC-AIR-FILTRATION.COM)

**Nordic Air Filtration A/S**  
Bergenevej 1  
DK-4900 Nakskov  
Denmark

SPECIALIZED IN INDUSTRIAL FILTRATION FOR A WIDE RANGE OF INDUSTRIES



Phone: +45 5495 1390  
Fax: +45 5495 1363  
Email: [sales@nordic-air-filtration.com](mailto:sales@nordic-air-filtration.com)  
[www.nordic-air-filtration.com](http://www.nordic-air-filtration.com)

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