SAFETY FIRST - WHY COMPROMISE

Health and Safety vacuum cleaners for every application



Nilfisk ALTO Why Compromise





Sophistication in engineering

Sophistication in engineering

As particle sizes of hazardous dusts are measured in less than 0,1 micron, it goes without saying, that sophisticated technology combined with years of experience and expertise are crucial factors when choosing your health and safety vacuum cleaner.

Approved for professionals

Hazardous dust demands the highest level of safety to ensure the maximum health protection. Nilfisk-ALTO health and safety vacuum cleaners span all dust classes - M (medium), H (high), Asbestos and explosive dusts classified as ATEX Type 22, and even ATEX Zone 2 areas where flammable gases may be present. All our solutions meet the new pan-European standards and bear all the necessary statutory approval symbols. The range is designed for the professionals that also demand low noise operation, ergonomics, long-life and reliable performance e.g. maintaining a filter permeability of only 0.005% on health and safety vacuum cleaners approved for use in hospitals.

A solution for any need

The handling of hazardous dust is a complex matter that continuously calls for new, innovative product development and competent engineering. As a specialist, Nilfisk-ALTO offers state of-the-art solutions in a full range, dedicated to solve any demanding task of picking up health-endangering dusts.

compromise



XtremeClean

without interrupting your work.



Push&Clean

Filter cleaning with the simple push of a button.



EC-Drive

1-Phase motors without carbon brushes are spark-free and have a long lifetime.



Air FlowSensor

Patented technology to ensure your safety vacuum is performing up to Standards.



AntiStatic

A conductive path from the pickup tool to earth connection to prevent sparks from static electricity discharge.



MulitFit

Vacuum inlet connection that ensures that all Nilfisk-ALTO accessories fit your machine.



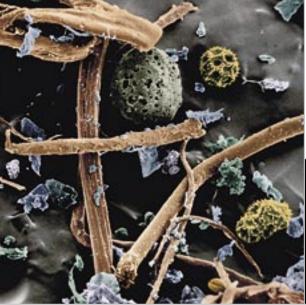
Auto On/Off

Control the running of your vaccum cleaner with your electric or pneumatic power tools.



2 Motors

Double the power against the toughest tasks. And of course, you can select 1 or 2 motor operation.



Hazardous dust - ir - how to handle the

Dust class

Dust class

Respiratory and skin diseases result in very high costs

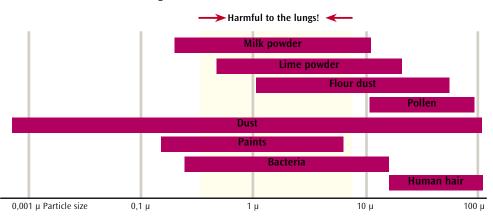
Focus on the unseen...

Nilfisk-ALTO joined the battle against hazardous dust many years ago because of the high quality and performance of our standard vacuum cleaner range made it possible with only minor changes along with careful attention to the details of handling Hazardous Dust. Our experience and technical expertise when combined with input from users like you, has resulted in what is probably the most complete offering in the marketplace, today. When you think Health & Safety vacuum cleaners, think Nilfisk-ALTO and you cannot go wrong.

Prevention is the best cure

Many diseases of the nasal mucous membranes, larynx, trachea, bronchial systems and lungs are generally caused by dust, inhaled as we breathe, and some types cause skin irritations, eczema, dermatitis or allergies simply by direct contact with the skin. As these miniature particles are normally invisible to the naked eye, the threat quite often is underestimated so attention must be paid to prevention - because some diseases are incurable.

A comparison of dust sizes





Beware of explosive dust

Diseases are not the only danger. It is well-known that cotton or paper can burn but also other materials, such as flour or even metals can ignite! Many types of dust which are potentially explosive are classified as an ATEX (ATmosphere EXplosive) Type 22 application and Type 22 equipment must meet additional and very special requirements.

The presence of oxygen and an ignition source with sufficient energy and an flammable substance (gaseous, liquid or solid) are factors which can provoke an explosion. The finer the dust, the higher the risk for an explosion!

Nilfisk-ALTO safety vacuum cleaners pick up the dust, and separate them from the surrounding air. Up to 99.995% is filtered out and isolated in the container.

n a class of its own! invisible opponent





These vacuum cleaners permit picking up dusts from dust classes L and M. These include all health-endangering, non-carcinogenic dusts with OEL values > 0.1 mg/m³ and hardwood dusts.

These vacuum cleaners permit picking up dusts from dust classes L, M and H. These include all health-endangering dusts with OEL values, all carcinogenic dusts and dusts contaminated with germs and bacteria.

Asbestos dusts are only permitted to be picked up with vacuum cleaners conforming to dust class H. In Germany they furthermore have to meet the additional requirements for asbestos.

Type These vacuum cleaners are approved to pick up explosive dusts as well as dusts from dust classes L and M. These include hardwood dust, all non-carcinogenic dusts with OEL values $> 0.1 \text{ mg/m}^3$ and/or inflammable dusts in ATEX Zone 22 applications.

Nilfisk-ALTO complies with the new pan-European standard

The national ordinances to date - the EN 60335-2-69 for Europe and the worldwide IEC 60335-2-69 have been incorporated into the new European standard and streamlined for the sake of

clarity - and in practice it means a split into the above mentioned classes. You will find the relevant classes listed with each health and safety vacuum cleaner in the brochure.

> All Nilfisk-ALTO Type 22 -Safety-Vacuums are ATEX compliant!

EN 60335-2-69, IEC 60335-2	-69	Hazard Types
Dust classe / Zone	Max. permeability	Tiazaru Types
L	1%	Removes 99 % of: • Dusts with OEL values > 1mg/m ³
М	0.1%	Removes 99,9 % of: • Dusts with OEL values > 0.1mg/m ³ • Wood dust
н	0,005%	Removes 99,995 % of: • Dusts with OEL values • Carcinogenic dusts • Dusts with germs or bacteria
Asbestos requirement	as H	Asbestos dust
Explosive dusts (ATEX Zone 22)	Type 22 : As Dust Class L, M or H, with additional requirements	Dusts of dust explosion classes St1, St2 and St3 in ATEX Zone 22 (previously zone 11)
Explosive Gases (ATEX Zone 2)	Separate approval for Zone 2	Flammable gases present less than 10 hr/year

OEL = Occupational Exposure Limit



Safety Vacuum Clear







Nilfisk-ALTO ATTIX 761-2M XC

- XtremeClean filter cleaning system
- Automatic OnOff for electric tools
- · Stainless steel container
- Tilting for easy emptying
- AntiStatic
- SoftStart



Nilfisk-ALTO ATTIX 751-2M

- · Automatic OnOff for electric tools
- · Stainless steel container
- · Tilting for easy emptying
- AntiStatic
- SoftStart

Extension tube nozzle, stainless steel



Nilfisk-ALTO 763-2M ED

- XtremeClean filter cleaning system
- · Automatic OnOff for electric tools
- · Quickly change the bag instead of emptying the container

302000535

302000726

• - /302001629

SoftStart



XtremeClean filter cleaning technology

With XtremeClean Nilfisk-ALTO offers an impressive filter cleaning system. The name is characteristic for the cleaning level of this system: Extremely efficient and fully automatic. The best filter cleaning system that the market has ever seen. The filter is cleaned automatically, so there is no need to interrupt your work. Concentrate on your main job, e.g. drilling, machining or sanding and let the vacuum assist you in achieving a dustfree workplace - wherever you are. Powerful reverse air flow cleans the filter gently to:

- · Keep the suction performance constantly high
- Extend the life of the filter and reduce your costs
- Save you working time without interruptions
- · Improve the reliability of the machine

		ATTIX	ATTIX	ATTIX
Technical data:		761-2M XC	751-2M	763-2M ED
Air flow rate	l/min.	3600	3600	3600
Vacuum	mbar/KPa	230/23	230/23	230/23
Power Pmax	W	1500	1500	1500
Power Piec	W	1200	1200	1200
Mains connection	V/~/Hz	230/1~/50-60	230/1~/50-60	230/1~/50-60
Working sound level	dB(A)	57	57	57
Container volume	1	70	70	30
LxWxH	mm	605 x 580 x 970	605 x 580 x 970	605 x 580 x 1284
Weight	kg	27	25	33
Standard accessories:	No.			
Suction hose, 36 mm dia., 5	m, AS			302001682
Suction hose, 27 mm dia., 3	,5 m, AS	15325	15325	
Curved hand tube, stainless	steel			46691
Floor nozzle, Alu 450mm				15348

All units come with a washable PET filter element, cable holder and 7,5 m rubber mains cable

• 18195

302000726

302001484/302001480



Dust class



Dusts from dust classes L and M may be picked up using the OEL-values > 0.1 mg/m³ and wood dusts. Application: indus for craftsmen including carpenters, joiners and painters.

18195

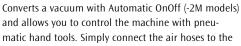
302000461

• 302001484/ -



AIRBOX

and allows you to control the machine with pneumatic hand tools. Simply connect the air hoses to the AIRBOX, plug the AIRBOX into the electric socket of the vacuum cleaner and switch the vacuum cleaner to Auto-mode





Tool adapter

Filter element

Filter bag/Disposal bag

Cooling Air Filter

Filtering the cooling air means less wear on the motor, and a longer life. When working in very dusty areas Nilfisk-ALTO recommends to use the cooling air filter.



Washable PET Filters

All of the Nilfisk-ALTO ATTIX M-Class machines have washable PET Filter Elements for reduced operating

ners for dust class M



Nilfisk-ALTO ATTIX 560-2M XC

- XtremeClean filter cleaning system
- Automatic OnOff for electric tools
- Speed governor
- SoftStart
- · Accessory holder



Nilfisk-ALTO ATTIX 550-2M

- Automatic OnOff for electric tools
- Speed governor
- · Accessory holder



- Automatic OnOff for electric tools
- Speed governor

· Push&Clean filter

cleaning system

- SoftStart
- · Accessory holder

		ALLIX	ALLIX	ALIIX
Technical data:		560-2M XC	550-2M	360-2M
Air flow rate	l/min.	3600	3600	3600
Vacuum	mbar/KPa	230/23	230/23	230/23
Power Pmax	W	1500	1500	1500
Power Piec	W	1200	1200	1200
Mains connection	V/~/Hz	230/1~/50-60	230/1~/50-60	230/1~/50-60
Working sound level	dB(A)	57	57	59
Container volume	1	45	45	27
LxWxH	mm	506 x 476 x 655	506 x 476 x 655	390 x 380 x 570
Weight	kg	16	14	10
6				
Standard accessories:	No.	● 15325	• 15325	• 15325
Suction hose, 27 mm dia., 3	5,5 III, AS			
Tool adapter		18195	18195	18195
Filter element		302000726	302000461	302000461
Filter bag		302001138	302000527	302000449
Disposal bag		302000728		
Cable holder		•	•	•

XtremeClean

Filter Cleaning System

Push&Clean filter cleaning technology

The name of this effective filter cleaning system already tells what to do: Block the fitting or the hose, push a button and the filter is clean. Powerful air pulses will blast the dust off

The Push&Clean filter cleaning system:

- · Keeps suction performance constantly high
- Extends the life of the filter and reduces your costs
- Saves you working time
- Improves the reliability of the machine

Push&Clean is a easy and powerful but gentle way of cleaning

se vacuum cleaners. These include all health-endangering, non-carcinogenic dusts with try sectors as chemicals, wood, plastics, metal, pharmaceuticals, paper and textiles;





Disposal bag

The easy, pleasant and clean way to dispose your dust. Instead of standing in a dust cloud while emptying the container, simply close the disposal bag before you dispose.



Exhaust Air Collector

Get rid of the vacuumed air by using the exhaust air collector. Ideal for absolute healthy and clean rooms. Can also be used with your vacuum hose to blow dirt out of hard-to-reach places.



Accessory net

For transportation of even more tools an accessory net is available and can be mounted on the vac. Content is visible through the durable mesh.



Safety Vacuum Cleaners for



Nilfisk-ALTO ATTIX 751-0H

- Stainless steel container
- Tilting for easy emptying
- AntiStatic-Ready
- SoftStart
- Tool tray



Nilfisk-ALTO ATTIX 560-2H XC

- XtremeClean filter cleaning system
- Automatic OnOff for electric tools
- Speed governor
- SoftStart
- Accessory holder
- Tool tray



		ATTIX	ATTIX	ATTIX
Technical data:		751-0H	560-2H XC	550-2H
Air flow rate	l/min.	3100	3600	3600
Vacuum	mbar/KPa	230/23	230/23	230/23
Power Pmax	W	1200	1500	1500
Power Piec	W	1000	1200	1200
Mains connection	V/~/Hz	230/1~/50-60	230/1~/50-60	230/1~/50-60
Working sound level	dB(A)	57	57	57
Container volume	1	70	45	45
LxWxH	mm	605 x 580 x 970	506 x 476 x 655	506 x 476 x 655
Weight	kg	25	16	16
Standard accessories:	No.			
Suction hose, 36 mm dia., 3	m, AS	46948		
Suction hose, 27 mm dia., 3	,5 m, AS		15325	15325
Curved hand tube, stainless	steel	46691		
Diagonal rubber nozzle		5067		
Tool adapter			18195	302000535
Filter element		302000658	302001134	302000658
Filter bag/Disposal bag		302001486/ -	302001143/302000728	• 302001141/ -

All units come with one Safety Filter bag, a filter element, cable holder and 7,5 m rubber mains cable.

Working with a H class Nilfisk-ALTO health and safety vacuum cleaner means you are working to the safest limit. These machines fulfil the strictest safety requirements and can be used for dealing with extremley hazardous H class dust, as well as with less problematic M and L class dust.

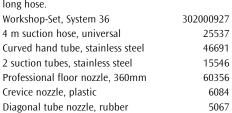
Dust class Dust class Dust class Asbestos

Dusts from dust classes L, M and H including Asbestos may be proceed to carcinogenic dusts and dusts contaminated with germs and bactextiles; for craftsmen such as roofers and painters.

Workshop-Set

Be on the safe side:

Robust accessory set with stainless steel tubes and a long hose.



Industrial floor set

The wide nozzle of this accessory set is perfect for cleaning large areas.

Industrial/floor set, System 36	63214
4 m suction hose, oil-resistant	61779
Curved hand tube, stainless steel	46691
2 Suction tubes, stainless steel	15546
Large capacity floor nozzle	15349
with rubber lips	

Hose set

Small set as addition to the accessories you already have.



Hose set, System 36	63210
4 m suction hose	25537
Curved hand tube, stainless steel	46691
Adapter	29457

or dust class H & Asbestos









Nilfisk-ALTO ATTIX 550-0H

- SoftStart
- Accessory holder
- Tool tray



Nilfisk-ALTO ATTIX 360-2H

- Push&Clean filter cleaning system
- Automatic OnOff for electric tools
- Speed governor
- SoftStart
- Accessory holder
- Tool tray

Nilfisk-ALTO ATTIX 350-0H

- SoftStart
- Accessory holder
- Tool tray



Technical data:	
Air flow rate	l/min.
Vacuum	mbar/KPa
Power Pmax	W
Power Piec	W
Mains connection	V/~/Hz
Working sound level	dB(A)
Container volume	1
LxWxH	mm
Weight	kg

Weight	kg	16	10
Standard accessories:	No.		
Suction hose, 36 mm dia., 3 m, AS		46948	
Suction hose, 27 mm dia., 3,5 m, AS			15325
Curved hand tube, stainless steel		46691	
Diagonal rubber nozzle		● 5067	
Filter element		302000658	 30200065
Filter had		■ 202001141	A 20200104

ALIIX	ALIIX	ALIIX
550-0H	360-2H	350-0H
3100	3600	3100
230/23	230/23	230/23
1200	1500	1200
1000	1200	1000
230/1~/50-60	230/1~/50-60	230/1~/50-60
57	59	59
45	45	45
506 x 476 x 655	390 x 380 x 570	390 x 380 x 570
16	10	10

	46948
15325	
	46691
	5067
302000658	•
302001040	302001040

All units come with one Safety Filter bag, a filter element, cable holder and 7,5 m rubber mains cable.

Asbestos

Asbestos is a group of naturally occurring inorganic crystalline silicates which are found in the form of fibres. When subjected to mechanical loads these fibres can split, producing ever thinner fibres, which can consequently be deposited in the lungs.

Asbestos is not used any more, but a lot of materials and buildings that contain asbestos have to be renovated. By breaking, beating, drilling, sawing, grinding or milling, the asbestos fibres are released. This dust has to be contained directly at the source! Vacuuming asbestos requires the use of an approved H-class safety vacuum cleaner.

Further on in Germany, asbestos dusts may only be picked up with cleaners of dust class H, which meet the additional national requirements for asbestos.

picked up using these vacuum cleaners. These include all health-endangering dusts with OEL-values, all tteria. Application: industry and trade sectors as chemicals, plastics, pharmaceuticals, mining, paper and

Pipe cleaning set

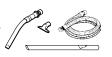
For cleaning the pipes at the wall or under the ceiling.



63215

3 m suction hose

A set for special applications to get the dust out of deep slits.



Industrial set

Accessory set for plenty of dust and debris.



Pipe cleaning set, System 38
2.5 m anodised aluminium extension tube
Tube cleaning nozzles for 70-120 mm dia.
for 120-220 mm dia.
4 m suction hose

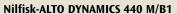
60430	i
46691	
5145	,
17836)
46948	

Industrial set, System 50	63216
Anodised aluminum extension tube	15335
Industrial floor nozzle, aluminum	15343
Replacement rubber lips	15346
Crevice nozzle, special plastic	7102
Coarse dirt nozzle, aluminum	41100
4 m suction hose	15358



Safety Vacuum Cleaner





- Automatic filter cleaning system for constant suction power
- · Interface for remote control
- Side channel turbine for high performance
- Microprocessor control
- Container emptying with setdown mechanism

Nilfisk-ALTO DYNAMICS 840 M/B1 additionally:

 Two side channel turbines deliver high air flow





Nilfisk-ALTO TURBO D-B1

- Durable three-phase motor
- Stainless steel container, removable
- Sturdy chassis
- Mobile and quiet

Nilfisk-ALTO TURBO D-X/B1 additionally:

• ATEX compliant in zone 2



		DYNAMICS	DYNAMICS	IUKBU	IUKBO
Technical data:		840 M/B1	440 M/B1	D/X-B1	D-B1
Air flow rate	l/min.	12900	7200	5200	5500
Vacuum	mbar/KPa	230/23	230/23	200/20	200/20
Power Pmax	W	8000	4000	2000	2400
Power Piec	W	5600	3300	1800	2200
Mains connection	V/~/Hz	400/3~/50	400/3~/50	400/3~/50	400/3~/50
Working sound level	dB(A)	67	64	61	61
Container volume	1	100	100	85	85
LxWxH	mm	1240 x 735 x 1370	1240 x 735 x 1370	630 x 860 x 980	630 x 860 x 980
Weight	kg	245	195	80	76
Standard accessories:	No.				
Filter bag/Disposal bag				• 33209 / -	• 33209 / -
Filter element		34931	34931	41164	41164
Cable holder				•	•
Mains cable, rubber		● 5 m	● 5 m	● 5,5 m	● 5,5 m

Dust class

Dust class V

Dust class Type 22

Dusts from dust classes L and M as well as explosive dusts may be picked and/or flammable dusts in Zone 22 (previously Zone 11) and wood dust Application: industry and trade sectors as chemicals, wood, plastics, me

The ATEX directive

Our B1 safety vacuum systems have been tested in accordance with the appropriate standards for ATEX Zone 22 or Zone 2. ONLY Type 22 accessories must be used to ensure continued conformity to the standards



A complete accessory kit.
B1 set for Type 22 vacuum cleaners
4 m suction hose 36 mm, anti-static,
curved hand tube, extension tube,
large capacity floor nozzle, crevice nozzle,
brush nozzle



B1-Hose

Swallows lots of dust and debris. 48907 50 mm suction hose

43245

s for dust class Type 22









Nilfisk-ALTO SQ 890-3M/B1

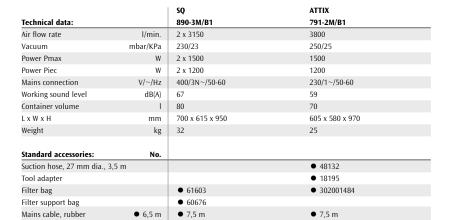
- Two motors
- · Longlife EC motor drive
- · Automatic on/off for pneumatic and electric tools
- Speed governor
- Microprocessor control
- Self-check system



Nilfisk-ALTO ATTIX 791-2M/B1

- Longlife EC motor drive
- · Automatic OnOff for electric tools
- Stainless steel container
- Tilting for easy emptying
- · Speed control
- SoftStart







The EC-drive combines the benefits of a universal motor with the advantages of the three-phase drive:

- Compact construction
- 230 V Single-phase drive
- · Very long life time
- High safety due to the fact that it creates no sparks As the three-phase drive, it also works without carbon brushes. This in combination with the long-life bearings, means there is nearly no wear and tear. The efficiency is also much better compared to a universal drive.

ed up with these vacuum cleaners. These include all non-carcinogenic dusts with OEL values > 0.1 mg/m 3 etal, pharmaceuticals, paper and textiles; for craftsmen such as carpenters, bakers and floor layers.



Large rolling nozzle

Attached to the frame of the SQ8 or ATTIX 7, you simply roll the machine along to clean the floor.

SQ8 29194 ATTIX 7 301001481



B1-Floor nozzle

Wide tool - perfect for cleaning large areas. Industrial roller nozzle, 50 mm dia.



42834

Long hoses that increase your flexibility and your mobility.

Chip suction hose, 50mm dia.

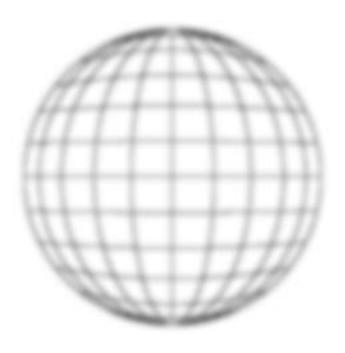
63712 4 m 42825 16 m 8 m 63710 20 m 63713 63711 12 m







Health & Safety Vacuum Cleaners Taking advantage



- Health & Safety vacuum cleaners for all dust classes
- Reliable and durable
- Economical use
- Qualified safety
- EC Longlife drive



Nilfisk-ALTO (division of Nilfisk Advance A/S) is the number one professional cleaning equipment company with a turnover of 630 million \in and 3800 employees. We are located in all main European countries, US and Asia with our headquarters in Denmark and production facilities in Germany, Denmark, Hungary, Singapore, China, Italy and the US.

We supply quality high pressure washers, vacuum cleaners and floor care equipment to agriculture. automotive and industrial companies, cleaning contractors and private consumers.

Nilfisk-ALTO is a product driven company with focus on innovation and growth. We believe in developing and maintaining long lasting relationships with our customers, suppliers and employees.

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