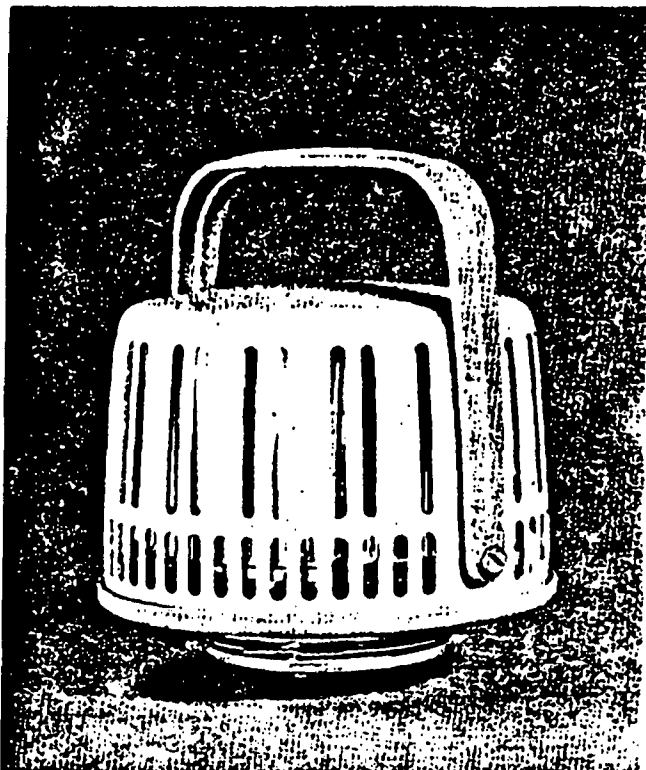


NILFISK exhaust filter and manometer

—for workplace air that's "white room" clean!



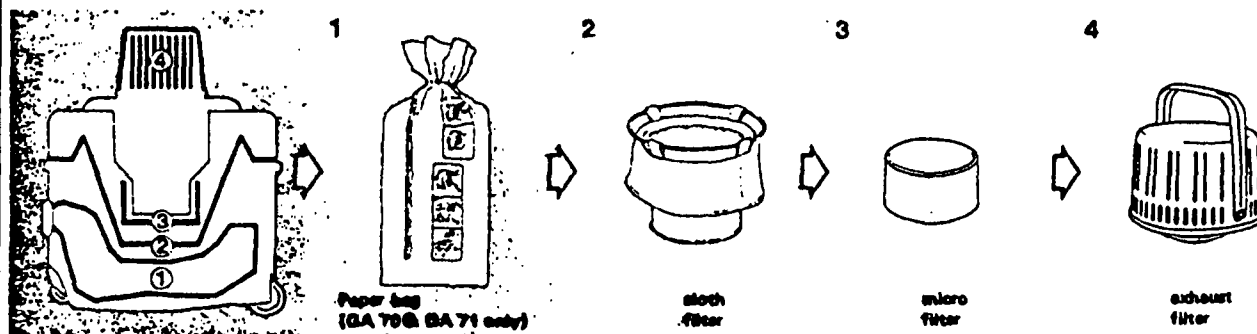
Install the Nilfisk exhaust filter when the cleaner's exhaust air must be "white-room" clean. This is especially important in chemical, pharmaceutical, ceramic, asbestos, lead, electronic, pesticide processing areas and other high-hazard industries. Ideal as well for laboratories, "white rooms," computer centers and hospitals.

Special versions of the Nilfisk GA72 and GA73 have been approved by the Bonn Institute for Dust Research, for use in areas where high-hazard dust such as asbestos, is being processed. Both machines are equipped with exhaust-filters, a main filter which can be shaken externally, and a manometer to indicate to the operator when the main filter needs to be shaken.

PLAINTIFF'S EXHIBIT

FD-1496

NILFISK offers 3- and 4- stage filter systems.



All Nilfisk filters are oversize. This allows the air to pass through them more slowly, insuring better filtration. It also means that only a very small percentage of ultra-fine dust particles reaches the exhaust filter, extending its life.

8005 1591

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SCF-ALLF-00070

Nilfisk exhaust filter specifications

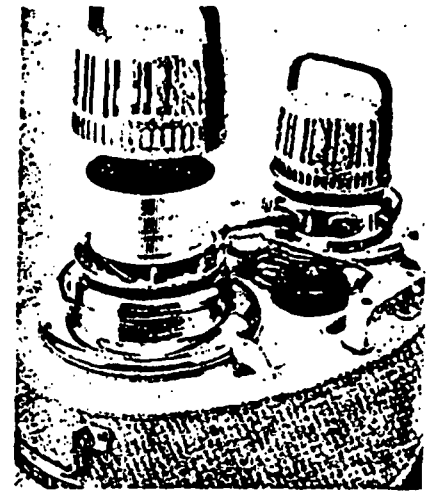
Filter casing	Aluminum
Filter material	Fiberglass
Filter cartridge diameter	130mm (5 1/8")
Filter cartridge height	76 mm (3")
Filter surface area	3200 cm ² (3.4 ft. ²)
Maximum working temperature	90° C. (194° F.)

Filtration efficiency in percent

Filtration efficiency according to:	particle size	%
	0.5-0.9 µm	100
British Standard 2928/65	sodium flame test	99.999
DIN 24184—test aerosol 2	radioactively indicated atmospherical aerosol, particle size < 0.3µm	99.99
DIN 24184—test aerosol 1	liquid paraffin cloud particle size 0.3-0.5 µm	99.97
US Military Standard 282	DOP	99.97

Dust particle size is measured in micrometers (µm, which equals 1/1000mm). Human hair is 60-80µm thick (60-80/1000mm). Nilfisk exhaust filters retain 100% of dust particles 1µm (1/1000mm) and 99.99% of particles down to 0.3µm in size. The following table shows the particle size of various dusts:

Flour dust	1-10 µm
Coal dust	1-10 µm
Cement dust	1-10 µm
Asbestos	1-10 µm
Metal dust	1-10 µm
China clay	1-10 µm
Virus	0.1-0.5 µm
Bacteria	1-10 µm
Pollen	1-10 µm



The exhaust filter is installed or removed by turning clockwise or counterclockwise. The cartridge is replaceable.

Nilfisk vacuum cleaners which can be fitted with the exhaust filter.	 GA 70	 GA 71	 GA 72	 GA 73
Air flow				
max. litre per second	28	28	60	83
Container dust capacity				
with paper bag	4	15		
without paper bag	7	20	46	69
Filter surface				
paper bag cm ²	2000	3800		
cloth filter cm ²	1850	1850	6600	14500
micro filter cm ²	700	700	1400	2100
exhaust filter cm ²	3200	3200	6400	9600

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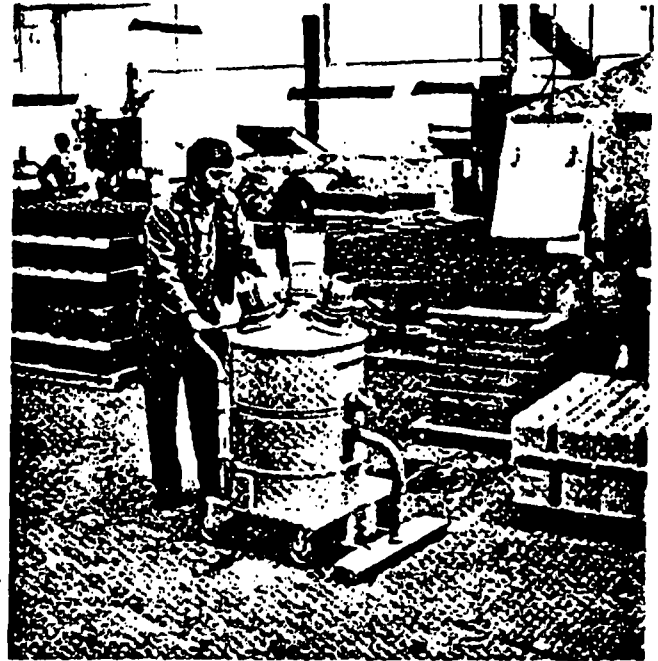
NILFISK exhaust filter

improves air quality in high-hazard workplaces



Pharmaceuticals

By using the Nilfisk exhaust filter, the operator is protected against dangerous dust exposure while cleaning equipment.



Lead

In spite of strict employee protection measures in force where lead compounds are processed, hazardous dust is generated when components are moved. Vacuuming with a Nilfisk machine equipped with exhaust filters is the best way to prevent this dust from being raised and inhaled.



Ceramics

The dangerous microscopic dust found in ceramic works causes silicosis. It is so fine, that only by using Nilfisk exhaust filters, can it be dealt with hygienically.



Health Care Facilities

To maintain the highest possible standards of hygiene, use Nilfisk vacuums fitted with exhaust filters, for effective control of dust-borne bacteria.

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Nilfisk means portability, durability, fine filtration —

All-metal construction regardless of size.

Reduce cleaning costs to a bare minimum.

Every cleaner is easy to operate regardless of size.

All Nilfisk cleaners are covered by a full year warranty.

Even our largest machines can be operated easily by one person — man or woman.

Sound engineering means minimum repair and maintenance stoppages.

Clean a 30" wide swath at walking speed.

GA70
Dust capacity
2 gallons dry
Weight 15 lbs.

GA71
Dust capacity
5 gallons dry
Weight 25 lbs.

GA71
Dust capacity
6 gallons dry
Weight 28 lbs.

GV21
Wet and dry
5 gallons
Weight 40 lbs.

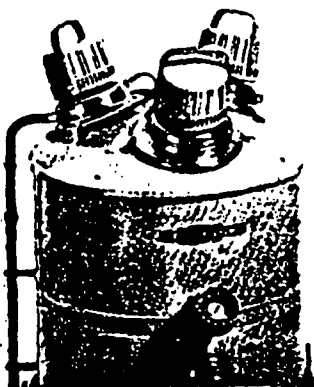
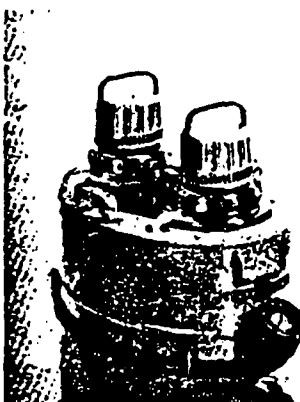
GA72
Dust capacity
12 gallons
Weight 68 lbs.

GA73
Dust capacity
18 gallons
Weight 128 lbs.

GB733
Dust capacity
18 gallons
Weight 174 lbs.

*can be equipped with exhaust filter

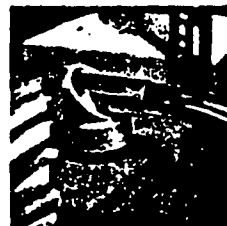
More than 90 different attachments



Clean large areas fast with the fixed floor nozzle.



The wheeled floor nozzle is adjustable for maximum cleaning power.



Both the GA72 and the GA73 can be fitted with a manometer. As the filter begins to load up with extra-fine dust or powder, the needle on the dial swings from the green area to the red. The operator then shakes down the main filter externally, without exposing himself.

Nilfisk offers a wide choice of special attachments, all well made and ideal for cleaning in difficult, hard to reach places.

NILFISK

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