

IVT 1000 CR / IVT 1000 CR »H«



CE

Betjeningsvejledning
Driftsveiledning
Bruksanvisning
Käyttöohje
Operating Instructions
Bedienungsanleitung
Gebruiksaanwijzing

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Kasutusjuhend
Norādījumi par lietošanu
Naudojimo instrukcija
РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ



**Nilfisk
Advance**
setting standards

Fig 1
Rating Plate



Fig 2

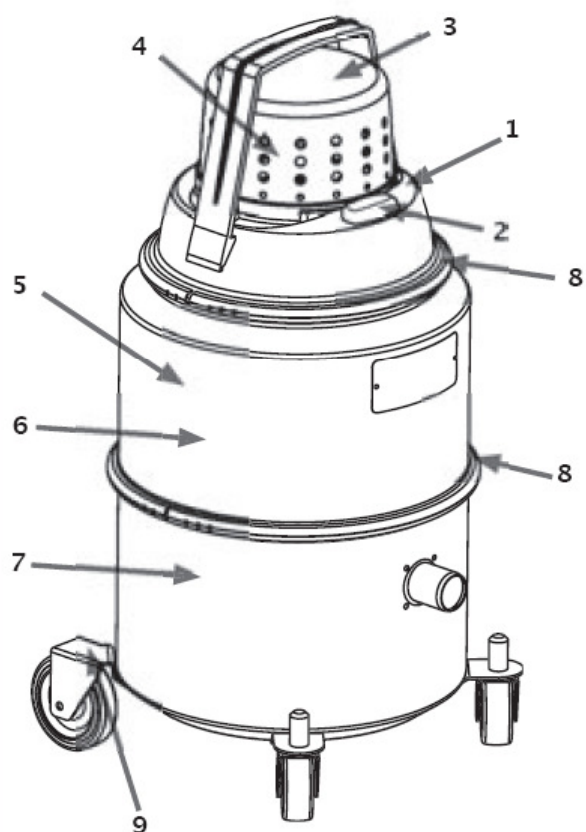


Fig 3

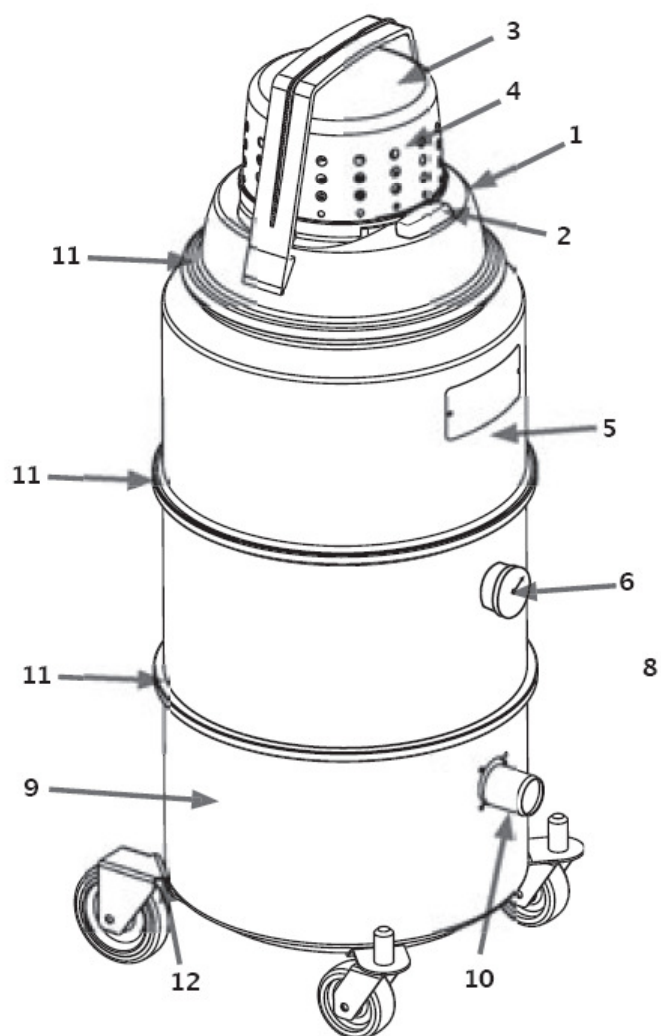


Fig 4

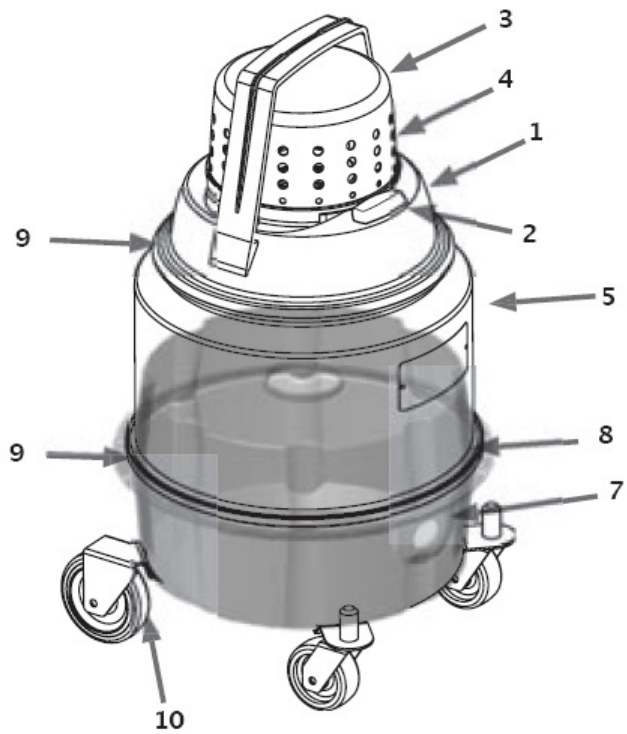


Fig 5

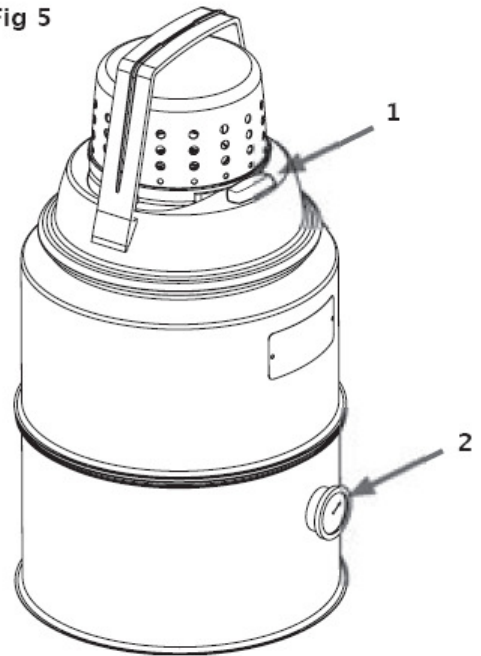


Fig 7.8.1

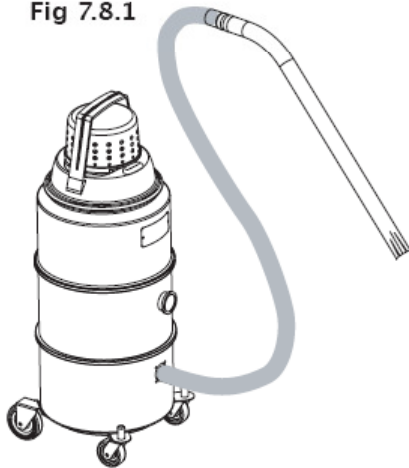


Fig 7.8.2

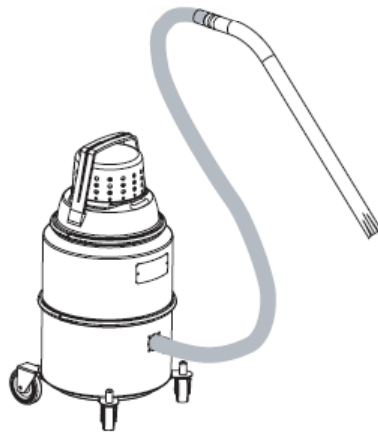


Fig 7.8.3

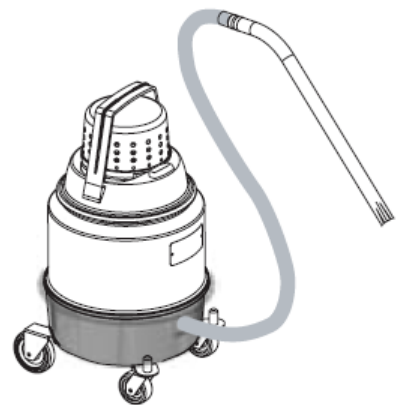


Fig 7.8.4

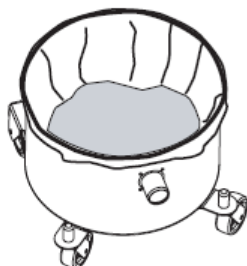


Fig 7.8.5



Fig 9

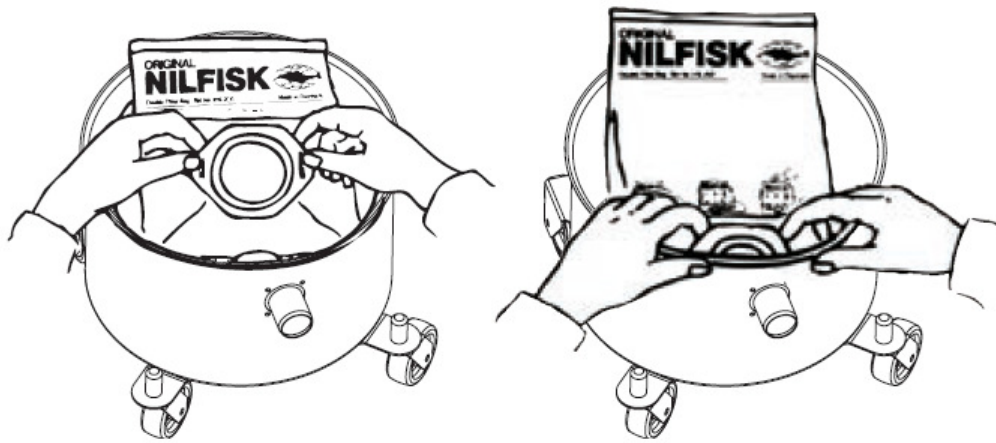


Fig 10

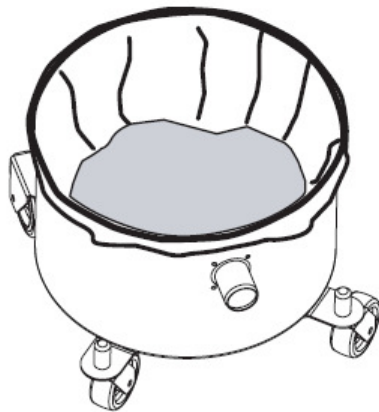


Fig 11

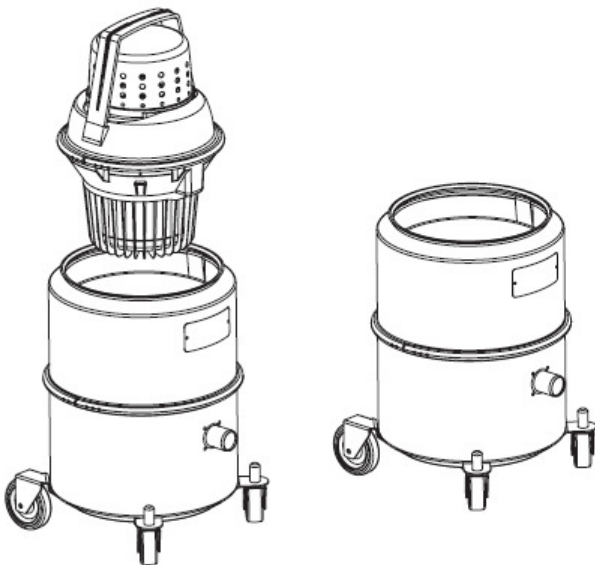
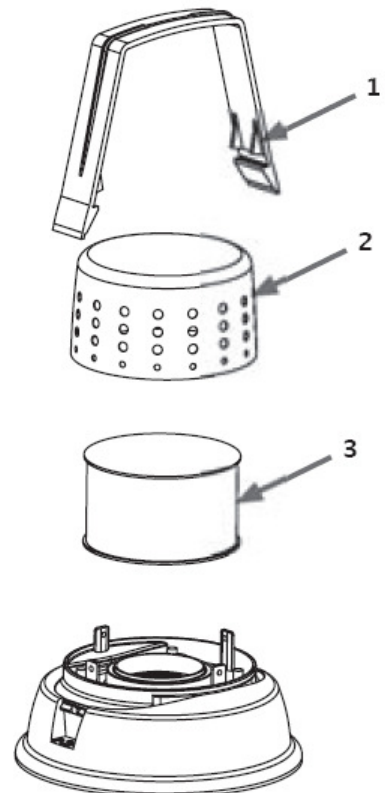


Fig 12



1 – Introduction

The operational safety of the machine in your possession is Entrusted to those who work with it every day.

Caution: Read instruction manual before operating and maintaining the appliance.

“IMPORTANT NOTE!

This manual has been compiled in order to inform machine users about the precautions and regulations to ensure their safety and allow the vacuum to remain in good working condition.

Personnel authorised to work with the machine must understand the manual before the machine is started. Keep the manual near the machine, in a protected and dry place away from direct sunlight and ready to hand for future reference when required.

This manual reflects the state-of-the-art technology at the time of sale and cannot be considered adequate if modifications are subsequently made except in cases where a Nilfisk-Advance kit for the machine has been installed.

The manufacturer reserves the right to update the production range and relevant manuals without being obliged to update previous machines and manuals. Consult your nearest After-Sales Service Centre or Nilfisk-Advance in case of doubt.

Description:

This machine has been designed to collect shavings, scraps, dust and various waste materials.

The vacuum has been designed and built to operate in industrial environment such as clean room areas where it can work for normal cleaning purposes.

The air passes through a filtering surface where solids in suspension are retained.

The machine is as standard equipped with ULPA U 15 exhaust filters, which makes the machine suitable for use in clean room areas ISO 5 and ISO 6 (under normal circumstances even ISO class 4).

An “H” class version equipped with upstream HEPA H 13 filter and downstream ULPA U 15 filter is also available. This machine is suitable for dust hazardous to health in class “H”.

The IVT 1000 CR / IVT 1000 CR “H” can be equipped with standard dust bag's (non hazardous dust) or a “safe bag” suitable for hazardous dust class “H”

A “Safe Pack” version of the machine is also available – this machine features a dust collection bin with built in HEPA filter – to be used for hazardous dust. The whole bin is replaced after use.

The pressure gauge installed on the machine (class “H” only) warns the operator of the filter conditions: an increase in pressure corresponds to a reduction in the suction power of the machine.

The high quality of the vacuum cleaner is guaranteed by the strictest tests.

The machine is manufactured in stainless steel AISI 316. All materials and components are subjected to a series of strict inspections during the various production phases in order to ascertain compliance with the established high quality standards.

2 – Safety precautions

2.1 – General precautions

Become thoroughly familiar with the content of this manual before starting, using, servicing or operating the vacuum in any way.

Never allow unauthorised personnel to work on the vacuum.

Never wear unbuttoned or loose clothing, which could be caught by the vacuum. Wear appropriate clothing.

Consult your employer about the current safety provisions and specific accident-preventing devices to use in order to ensure personal safety.

The area where maintenance operations are carried out (ordinary or extraordinary) must always be clean and dry.

Suitable tools must always be available.

Repairs must only be carried out when the machine is at a standstill and disconnected from the electricity supply. Never carry out repairs without having first received the necessary authorisation.

2.2 Important warnings

To reduce the risk of fire, electric shock, or injury:

Do not leave the appliance unattended when plugged in. Unplug from outlet when not in use and for servicing.

Do not allow to be used as a toy. Close attention is necessary when used by or near children.

Use only as described in this manual. Use only Manufacture's recommended accessories and spare parts.

Do not use with damaged cord or plug. If the appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.

Do not pull or carry by cord, use cord as handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.

Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.

Do not handle plug or appliance with wet hands.

Do not put any objects into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce airflow.

Keep hair, loose clothing, fingers, and all parts of the body away from openings and moving parts.

Under no circumstances should the machine be used for picking up hot material. In particular the machine must not be used for cleaning open and closed fireplaces, ovens or similar that contain warm or glowing ashes.

Do not use without dust bag and/or filters in place.

Turn off all controls before unplugging.

Use extra care when cleaning on stairs.

The machine must not be used for picking up combustible or explosive materials, nor should it be used in an explosive atmosphere.

2.3 Grounding instructions

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. The plug must be inserted into an appropriate socket that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING – improper connection of the equipment grounding conductor can result in a risk of electrical shock.

Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug supplied with the appliance – if it will not fit the socket, have a proper one installed by a qualified electrician.

Attention!!

Under no circumstances must the user tamper with the equipment.

All attempts by the user or by unauthorised personnel to dismantle, modify or, more generally, tamper with any part of the vacuum shall void the guarantee.

Contact your nearest

After-Sales Service Centre in the event of faults.

3 – Machine data

3.1 Identification data.

Always state all the identification data on the machine when ever you contact Nilfisk-Advance after sales service.

Exact identification of the machine model and serial number will help prevent incorrect information from being given.

The identification plate with the machine data is shown in fig. 1

A Type

B Electrical Power

C Serial number – yywwXXXX

(yy=year ww = week XXXX = number

D Operating Frequency

E Dust class Category

F Ref. number

G Voltage

H Max. Current

3.2 – Main parts (fig. 2 / 3 / 4)

The following list of main parts will help users to understand

the terms used in this manual.

Fig 2 standard machine

1. Motor head incl. handle
2. On / Off button
3. Exhaust filter cover
4. ULPA U 15 exhaust filter
5. Top container
6. Main filter "M" class Goretex® PTFE filter
7. Dust container
8. Stainless steel clamps
9. Trolley

Fig. 3 "H" class machine

1. Motor head incl. handle
2. On / Off button
3. Exhaust filter cover
4. ULPA U 15 exhaust filter
5. Top container
6. Vacuum Gauge / Manometer
8. "H" class HEPA H 13 filter
9. Dust container
10. Blind cover for inlet
11. Stainless steel clamps
12. Stainless steel clamps

Fig. 4 "Safe Pack" machine

1. Motor head incl. handle
2. On / Off button
3. Exhaust filter cover
4. ULPA U 15 exhaust filter
5. Top container
7. "Safe pack" unit
8. HEPA H 13 filter fixed inside safe pack unit
9. Stainless steel clamps
10. Trolley

4 – Safety

Attention!!

Check that all clamps are correctly positioned and working correctly before starting and using the machine.

Never tamper with the safety devices.

Always check that the protection and safety devices are mounted and working at the beginning of each work shift or before using the machine. If this is not the case, switch off the vacuum and report fault.

The vacuum has been manufactured with particular attention to the operator's safety.

Comply with the maintenance and technical assistance procedures and information given in this manual.

Never use compressed air to clean the machine or its components.

Never open the waste container whilst the vacuum is operating.

Before beginning electrical connection, check that the voltage

and frequency values are those indicated on the data plate of the machine.

Connect the machine to the electricity main with an efficient ground circuit.

Only authorized personnel must be allowed to work on the electrical part of the machine and this must always be disconnected from the electricity main.

Never move the vacuum by pulling the power cable. This may damage the vacuum itself and the operator may be exposed to electric shocks

5 – Testing, delivery, installation

5.1 – Testing

The machine has been tested in our plant in order to ensure that it operates correctly. Tests on the suction values are carried out during this phase.

This ensures that the vacuum has been optimised according to the job for which it was designed.

5.2 – Delivery and handling

The machine is delivered, in a cardboard box.

When receiving the machine check for concealed damage. If damage is discovered, immediately file a complaint with the carrier.

The machine can be stored at temperatures between 0 and 50°C, and 65% relative humidity.

Before storage the machine must always be cleaned in accordance with the instructions.

The machine can be operated in the temperature range -5 to + 50 °C and 65 % relative humidity.

The delivery packaging should be disposed of in accordance with the relevant statutory regulations.

Dispose of a machine, which is no longer usable, in accordance with the relevant statutory regulations.

Only use approved commercially available, non-combustible and non-toxic solvents for the purpose of cleaning the machine. Stainless steel body parts and accessories can be cleaned in an autoclave at 121°C

5.3 – Certificate of guarantee

The certificate of guarantee is packed with the vacuum.

5.4 – Installing the vacuum

Attention!!

The user shall be responsible for ensuring that installation

complies with the local statutory regulations.

A qualified technician, who has read and understood the instructions herein, must install the equipment.

The floor on which the vacuum must operate should be level, flat and smooth.

If the vacuum is to work in a fixed position, allow ample space all round in order to ensure freedom of movement and make sure that the maintenance staff to operate with ease.

5.5 – Connecting to the electricity main

Attention!!

Check that the voltage and frequency values of the electricity main correspond to the values indicated on the data plate described in paragraph 3.1 (data plate)

Specialised personnel must carry out all installation and maintenance work on electrical parts.

Connect the equipment to an efficient earth.

Ensure that the electrical supply matches the machine rating plate.

6 — Controls (Fig. 5)

1. On / Off button

2. Vacuum Gauge / Manometer ("H" class machine only)

7 — Starting and stopping

7.1 — Caution

Attention!!

Unauthorized personnel are forbidden to use the vacuum.

7.2 — Starting / Stopping

Check that the machine has been effectively connected to the electricity main. In particular, check that the main voltage and frequency values correspond to those indicated on the data plate. (see fig. 1)

Fit the accessories to the suction inlet. Use the stainless steel clamp to fix the hose to the inlet.

Place the vacuum near the place of use, then lock the wheels by pressing levers downwards.

The machine is switched ON or OFF by pressing the grey button on the upper part of the motor.

8 — Using the vacuum (fig. 7)

8.1 — Correct use of the vacuum

Before using the machine, connect the suction pipe to the inlet as indicated in paragraph 7.2.

Keep long suction pipes as straight as possible.

Do not allow them to bend or twist as this will cause excessive wear and clogging.

When the vacuum is powered, suction is created at the pipe inlet and this sucks in the waste material.

This waste material passes through the pipe and accessories through the inlet "4" until it reaches container "6".

A Org. Nilfisk dustbag can be used in the standard machine.

To release the container, unfasten the stainless steel clamp and lift off the upper part with the motor/filter section.

Fix the dust bag as follows:

Pierce the dust bag's perforation and place it in the lower container.

Pull the blue dust bag plastic plate over the suction inlet with both hands.

Unfold the dust bag carefully. Replace the top container and lock the stainless steel clamp.

Note

The suction efficiency depends on the size and quality of the dust bag. Use original Nilfisk bags only. If non- Nilfisk dust bags are used, and airflow restricted, overheating of the motor and subsequent damage may occur.

"H" class only:

A "Safe Bag" system is used for the "H" class machine. The Safe Bag system consist of a dust bag approved by BIA for class "M". The dust bag is reinforced with a mesh and incapsulated in a plastic bag.

Insert the dust bag into the container. Its flange must point at the inlet.

Now push the flange onto the inlet until it fits tight.

The plastic bag has to fit the bottom and walls of the container. Tear the edge of the bag above the edge of the container and smooth it down.

“Safe Pack” only:

Ensure that the motor and top container fits correctly on top of the safe pack unit before starting the machine.

The safe pack unit is a “throw away” unit, which is manufactured to hold dust hazardous to health.

8.2 — Cleaning the main filter (standard Machine)

To keep suction power at a constant level the filter must be kept as clean as possible by shaking it at regular intervals.

Dismount the motor unit by opening the stainless steel clamp.

Take the bottom plate of the filter and pull it upwards and shake slightly. Don't remove the hose while shaking. The filter must not be washed or brushed!

“H” class only

The system is fitted with a vacuum gauge / manometer that allows you to monitor the minimal airflow in order to guarantee an optimal air speed within the suction hose. When you lift the floor nozzle off the surface that is being cleaned and the manometer's needle moves from the green zone into the red one, the dust bag is full and needs to be replaced.

Attention: The level of material inside the dust bag has to be checked at regular intervals. Monitoring the level strictly by means of the manometer is not a 100 per cent guarantee that the bag is not full.

Attention: There is no device for cleaning the main filter.
When the dust bag has been replaced and the manometer's needle does not return to the green zone, the main filter needs to be replaced as well.

8.3 — Emptying the container / changing the bag (fig. 9)

First of all, switch the motor off and wait a moment until the dust inside the machine has settled down. Then you can separate the dust collecting container from the upper part of the machine:

Switch the motor on in order to prevent dust falling down from the filter.

Open the stainless steel clamp, now lift off the upper part and let it rest on the support frame.
Replace the disposal system, the bag.

Lift the upper part above the machine.

Switch the motor off.

Put the upper part on the machine and secure by locking the clamp.

“H” class only: (fig. 10)

Using a Dust Safe Bag system, Dust class H

Once the dust bag is full

Disconnect the vacuum compensation line from the system.

Open the clamps and lift the upper part.

Switch the motor on in order to prevent dust falling down from the filter.

Leave the hose connected or close by shutter cap!
Now lift off the upper part and replace the safe bag disposal system.

After opening the appliance detach the plastic bag lying across the bin rim carefully, press the opening together and seal it.

Detach the back of the connecting flange by briefly and firmly pressing downwards at an angle, holding the front firmly on the connection piece as you do so.

The flexible plastic-pipe joint is now visible and can be tied off securely with the plastic cable tie simply by pulling it together.

Having ensured that no dust can escape, now also detach the front part of the flange from the connection piece.

Fitting the Dust safe Bag

Place the special dust bag flat in the bin with its opening pointing towards the bin inlet.

Now slide the opening in the special dust bag on to the bin inlet as far as it will go – without any turning.

Then fold the plastic bag down over the bin rim.

Now pull the part of the plastic bag overlapping the bin rim tight against the flange (before reattaching the top and bottom sections of the vacuum cleaner).

Lift the upper part above the machine.

Switch the motor off.

Put the upper part on the machine and secure with locking clamp.

Connect the vacuum compensation line to the system.

9 — Dustclasses

Use in compliance with the standards.

Check which dustclass your machine is suited for (see identification plate).

The machine must not be used for several categories at the same time, unless suitable accessories are used.

Dust Class “L”

(Light hazard – defined by EN 60335-2-69).

This industrial vacuum is approved according to EN 60335-2-69 for category of use “L” and is fit to suck dry, non flammable and non-toxic dust with $MAK > 1 \text{ mg/m}^3$ values; the clean air is conveyed back into the place of work.

Dust class "M"

(Medium hazard – defined by EN 60335-2-69).
This industrial vacuum is approved according to EN 60335-2-69 for category of use "M" and is fit to suck dry, non flammable and non-toxic dust with MAK>0.1mg/m³ values; the clean air is conveyed back into the place of work.

Dust class "H"

(High hazard – defined by EN 60335-2-69).
This industrial vacuum is approved according to EN 60335-2-69 for category of use "H" and is fit to suck dry, non flammable and non-toxic dust with all MAK limiting values as well as dry, non flammable dusts of carcinogenic substances. The cleaned air is fed back to the workplace atmosphere

10 — Maintenance**10.1 — Foreword****Attention!!**

All maintenance and cleaning operations must be carried out when the vacuum is off and disconnected from the electricity main.

The suction unit needs no particular maintenance or lubrication.

Remember, however, that correct use and servicing are essential if the safety and efficiency of the vacuum are to be guaranteed.

To ensure regular and constant operation and to prevent the warranty from becoming void, only ever use genuine Nilfisk-Advance A/S spare parts when repairs are needed.

10.2 — Checks and inspections on start-up

The customer should proceed with the following inspections to ensure that the vacuum has not been damaged during transportation.

10.2.1 — Before starting:

Check that the mains voltage value corresponds to that for which the machine is preset (see data plate in paragraph 3.1 fig. 1);

10.2.2 — With the vacuum operating

check that all the air seals are perfectly tight; check that all fixed protections are efficient; proceed with suction tests using the same materials as those used during work. This will ascertain whether all parts of the vacuum operate correctly.

10.3 — Routine maintenance

Strictly comply with the following operations to ensure that the vacuum remains in a constantly reliable condition.

10.3.1 — Before each work shift:

Check that all warning and danger plates are fixed and legible.

Replace them if they are damaged or incomplete.

Check that the waste container is empty.

Empty it if this is not the case. See paragraph 8.3.

10.3.2 — Cleaning the vacuum unit:

The Stainless steel parts can be cleaned by normal cleaning methods using standard sanitizers, and they can also be cleaned in a standard Autoclave unit at 121°C.

All other components can be cleaned using standard cleaning methods.

11 – Changing the filter**11.1 — Changing the main filter (fig. 11)****Attention!!**

When the vacuum has been used on materials that are hazardous to the operator's health, maintenance staff must wear suitable personal protection equipment. When replacing the primary filter. Work outdoors if possible. The old filter must be disposed of in a special plastic bag.

Loosen the clamp fixing the filter assembly on the machine.

Remove the motorhead from the machine.

Detach the gasket securing the filter ring at the bottom of the top container.

Unclip the filter in the top of the container and place the filter in a plastic bag.

Close the plastic bag containing the filter.

If this is soiled with toxic or dangerous dust, do not throw it away. Hand it over to the authorities that are authorized to dispose of such waste.

Change the main filter and the "H" class filter with particular care, above all use mask type P3.

Attention!!

Filter replacement is an important operation.

The filter must be replaced with one of identical characteristics, exposed filtering area and category.

Failure to comply with these regulations could jeopardize the correct operation of the vacuum.

Obtain a filter with a identical characteristics to the previous one.

Fit the filter in the container as described above in opposite order.

11.2 — Changing the exhaust filter (fig. 12)

Disconnect the vacuum cleaner from the power supply before starting the work!

attention: Observe correct operator protection in accordance to regulations against material kept in the ULPA filter.

Removing the handle

Detach the handle by unscrewing the two screws.

Release the handle by a gentle downward pressure at its centre.

Press and release the handle from the recesses.

Removing and replacing the filter cartridge and gaskets

Unscrew the four screws.

Lift-away the stainless steel housing with filter cartridge.

Replace the filter cartridge and gaskets.

Refit the filter housing by pressing on the top, to mount the four screws.
Remount the handle and fix in position with the 2 screws.

The dismantled and replaced exhaust filter must be covered with a plastic bag and disposed of in the appropriate way.
Execute the change of the primary filter and of the exhaust filter with particular care above all use the mask type P3.

Note

The exhaust filter is toxic waste and must be treated as such.
Hand it over to one of the authorities authorized to dispose of such materials.

12. — Recommended spares

The following is a list of spare parts that should be kept ready at hand in order to speed up maintenance work.

Part no.:	Description:
02171000	DUST SAFE
81620000	DUST BAG 6.5 L, 5 PCS
80556600	ULPA FILTER KIT
80353000	SEALING FOR INLET
61909800	GORE-TEX FILTER
80386700	SEALING FOR CONTAINER

13. — Trouble-shooting

• the motor will not start

- a fuse may have blown and needs replacing.
- the cable or the wall socket may be defective and needs checking.

• the suction power is reduced

- the dust bag may be full and needs replacing,
- the filter may be clogged and needs shaking,
- The by pass valve is open

The by pass valve protects the motors against an overheating that may occur when there is not enough cooling air.

You should not release this mechanism unnecessarily by closing the suction inlet with your hand while the machine is working.

When the hose or the tube is blocked or the filter needs to be cleaned, the airflow is interrupted or not longer sufficient and the by pass valve opens. It is not necessary to shut down the system while removing the blockage.

Having done that, you may continue with your work.

• the vacuum cleaner stops

- the thermal cut-out has switched off the motor as a result of an obstruction of the hose, wand or nozzle. Remove the cause of the obstruction.
- when the motor is cool, it will automatically start again.

	IVT1000 CR	IVT1000 CR H	IVT1000 CR Safe Pack	IVT1000 CR	IVT1000 CR H	IVT1000 CR Safe Pack
Specifications	EU – UK 220–240V	EU – UK 220–240V	EU – UK 220–240V	US 110–120V	US 110–120V	US 110–120V
Rated power W	1200	1200	1200	1100	1100	1100
DUST CLASS	M	H	H	M	H	H
FREQUENCY (Hz)	50–60	50–60	50–60	50–60	50–60	50–60
GROUNDING	JA	JA	JA	JA	JA	JA
Protection grade (moist., dust) –	IP40	IP40	IP40	IP40	IP40	IP40
Airflow without hose l/sec	38	35	35	36	34	34
Vacuum kPa	19,8	20	20	19,6	19,8	19,8
VACUUM MAX (KPA)	19,8	20	20	19,6	19,8	19,8
Suction power with hose W	250	236	236	240	232	232
Sound pressure level at 1.5 m (ISO 3744)	61	61	61	61	61	61
MAIN FILTER TYPE	GORETEX PTFE	HEPA H13	HEPA H13	GORETEX PTFE	HEPA H13	HEPA H13
Main filter area cm ²	2100	2573	2573	2100	2573	2573
Exhaust filter, ULPA, surface area U15 cm ²	2573	2573	2573	2573	2573	2573
Container capacity l	12,5	12,5	–	12,5	12,5	–
Dust bag capacity l	6,5	8	6,5	6,5	8	6,5
INLET (MM)	32	32	32	32	32	32
LENGTH X WIDTH X HEIGHT (CM)	Ø30 x 62,5	Ø30 x 72,5	Ø30 X 70	Ø30 x 62,5	Ø30 x 72,5	Ø30 X 70
Weight kg	7,75	9,2	8,2	7,75	9,2	8,2

Specifications and details are subject to change without prior notice.

EU Declaration of conformity

Manufacturer NILFISK A/S
 Address Sognevej 25
 DK-2605 Brøndby,
 Denmark
 Telephone +45 43 23 81 00
 Telefax +45 43 43 77 00

hereby declares that suction cleaners Nilfisk, Type

IVT 1000 CR / IVT 1000 CR »H«

have been manufactured in conformity with the provision in
 the Council Directives:

73/23/EEC	LV-Directive (Low Voltage Directive)
89/336/EEC	EMC-Directive (Electro Magnetic Compatibility)
89/392/EEC	M-Directive (Machine)

Nilfisk-Advance A/S



Jørgen Jensen

EG-Konformitätserklärung

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erklären hiermit, daß Staubsauger, Nilfisk, Typ

IVT 1000 CR / IVT 1000 CR »H«

in Übereinstimmung mit den Bestimmungen der folgenden
 Richtlinien des Rates hergestellt wurden:

73/23/EWG	LV-directive (Niederspannungsrichtlinie)
89/336/EWG	EMC-directive (EMV-Richtlinie)
89/392/EWG	M-directive (Maschinenrichtlinie)

Nilfisk-Advance A/S



Jørgen Jensen

EG-conformiteitsverklaring

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 Denemarken
 Tel. +45 43 23 81 00
 Fax +45 43 43 77 00

verklaren hierbij, dat de stofzuigers, Nilfisk, type

IVT 1000 CR / IVT 1000 CR »H«

gefabriceerd zijn in overeenstemming met de bepalingen in de
 Richtlijnen van de Raad:

73/23/EEC	LV-directive (laagspanning richtlijn)
89/336/EEC	EMC-directive (elektromagnetische compatibiliteit)
89/392/EEC	M-directive (machine richtlijn)

Nilfisk-Advance A/S



Jørgen Jensen

Déclaration CE de conformité

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déclare par la présente que les aspirateurs Nilfisk, type

IVT 1000 CR / IVT 1000 CR »H«

ont été construits en conformité avec les dispositions des
 Directives du Conseil:

73/23/CEE	LV-directive (réglementation basse tension)
89/336/CEE	EMC-directive (CEM compatibilité électromagnétique)
89/392/CEE	M-directive (réglementation machine)

Nilfisk-Advance A/S



Jørgen Jensen