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Instructions for use

READ ALL THE OPERATING INSTRUCTIONS BEFORE USING THIS EQUIPMENT.

Comply with the important safety recommendations identified by the word WARNING!

Operator’s safety

Before starting the machine, it is absolutely essential to read these operating instructions and to keep them on file for consultation. The vacuum cleaner can only be used by people who are familiar with the way it works and who have been explicitly authorized and trained for the purpose. Before using the vacuum cleaner, operators must be informed, instructed and trained on how to work with it and for which substances its usage is permitted including the safe method for removing and disposing of the vacuumed material.

IMPORTANT SAFETY INSTRUCTIONS

Operator Safety

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 before servicing.
- To reduce the risk of electrical shock, do not use the vacuum cleaner outdoors. Do not use outdoors or on wet surfaces.
- Do not allow this appliance to be used as a toy. This machine is for adult-use only. Close attention is necessary when used by or near children.
- Use only as described in this manual. Use only the manufacturer’s recommended attachments.
- Do not use with damaged cord or plug. If 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 the cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run the appliance over the 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, cord or appliance with wet hands.
- Do not put any object into the openings. Do not use with any opening blocked; keep free from 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.
- Turn off all controls before unplugging.
- Use extra care when cleaning stairs.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use without dust bag/or filters in place.
- Connect to a properly grounded outlet only. See grounding instructions.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This equipment must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord that has an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet 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 electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded.

WARNING!

The vacuum cleaner is supplied without an electrical plug. It is the user’s responsibility to install a suitable plug certified for the classified hazardous locations (Class I - Group D, Class II - Groups F & G). The plug should be installed by a qualified electrician only.

General information for using the vacuum cleaner

Use the vacuum cleaner in accordance with the laws in force in the country where it is used. Besides the operating instructions and the laws in force in the country where the device is used, the technical regulations for ensuring safe and correct operation must also be observed. Do not perform any operation that could jeopardize the safety of people, property and the environment. Comply with the safety indications and prescriptions in this instruction manual.

Proper uses

WARNING – This vacuum cleaner can only be used to vacuum dry materials, unless fitted with an optional liquid shut-off device.

Always leave enough room around the appliance to reach the controls easily.

The vacuum cleaner has been designed to be used by one operator at a time. This vacuum cleaner consists of an automated vacuum unit, with a filter upstream and a container for collecting the vacuumed material.
**Improper Use**

**WARNING!**

The following use of the vacuum cleaner is strictly forbidden:

- Outdoors in case of atmospheric precipitation.
- When not placed on horizontal level ground.
- When the filter is not installed.
- When the vacuum inlet and/or hose are turned to parts of the human body.
- Use without the guards, protective covers and safety systems installed by the manufacturer.
- When the cooling vents are partially or totally clogged.
- When the vacuum cleaner is covered with plastic or fabric sheets.
- When the air outlet is partially or totally closed.
- When used in narrow areas where there is no fresh air.
- Vacuuming the following materials:
  1. Burning materials (embers, hot ashes, lit cigarettes, etc.), or other active sources of ignition.
  2. Open flames.
- For the purposes of cleaning or extracting fuel residues from airplanes or ships.

**IMPORTANT:** Fraudulent use is not permitted.

**Applications**

The electric motors used in the Nilfisk Explosion Proof / Dust Ignition-Proof vacuum cleaner model VHT37EXP have been listed by Underwriters Laboratories Inc. in guide PTDR file E6951 UL - 022553 CSA, for use in the following hazardous location classifications:

**Class I / Group D**

Atmospheres containing, but not limited to: gasoline, petroleum, naphtha, benzine, butalice, propane, alcohol, acetone, benzo1, lacquer solvent vapors or natural gas.

**Class II / Group F**

Atmospheres containing, but not limited to: carbon, black coal or coke dust.

**Class II / Group G**

Atmospheres containing, but not limited to: flour, starch or grain dust.

**Versions**

**HEPA**

This vacuum cleaner can be equipped with an absolute (HEPA) filter for vacuuming dust hazardous to one’s health. The procedures for servicing and emptying the vacuum cleaner including removing the dust container, must only be performed by authorized personnel wearing protective clothing. Do not use without the complete filter system in place.

[ NOTE ]

- In the case of dust harmful to health, contact the local health and safety authorities, and observe national regulations in force both during use and disposal.
- Radioactive substances are not included in the definition of the type of dust harmful to health described above.

**General recommendations**

**WARNING!**

If an emergency situation occurs:

- Filter breakage
- Fire outbreak
- Short-circuit
- Motor blockage
- Electric shock
- Other emergency situations.

Turn the vacuum cleaner off, unplug it and request assistance from qualified personnel.
Vacuum cleaner description

Vacuum Cleaner Parts and Labels

**Figure 1**

1. Data plate which includes:
   - Manufacturer’s name and address
   - Technical specifications
   - Serial number
   - Year of manufacture
   - Weight (kg)
2. Panel power plate
   Indicates that the panel is powered by the voltage indicated on the data plate.
3. Attention plate
   Draws the operator’s attention to the fact that the main filter must only be shaken when the vacuum cleaner is turned OFF. Failing this, the shaking would have no effect while the filter itself could be damaged (see also “Shaking the primary filter” paragraph).
4. Inlet
5. Outlet / exhaust
6. Check valve (Clapet)
7. Regenerative blower
8. Manual motor starter
9. Vacuum union hose
10. Band latch
11. Container release handle

This vacuum cleaner creates a strong air flow which is drawn in through the inlet (4) and blows out through the outlet (5).

Before turning the vacuum cleaner on, fit the vacuum hose into the inlet and then fit the required tool on the end of the hose. After the hose and tools have been fitted, make sure that the motor turns correctly.

This vacuum cleaner is supplied with a unidirectional clapet valve which prevents the vacuum from blowing air and materials out of the dust container if the wrong phase sequence is found. If the case, the vacuum cleaner does not suck any air.

The vacuum cleaner is equipped with a main filter which enables it to be used for the majority of applications.

Besides the main filter which retains the more common types of dust, the vacuum cleaner can be fitted with an upstream absolute (HEPA) filter and a downstream absolute (ULPA) filter, with a higher filtering capacity for fine dust and substances harmful to health.

Optional kits

Please contact the manufacturer’s sales network for information on options.

Instructions for installing the options are included in the conversion kit.

---

**WARNING!**

Use only genuine optional kits supplied and authorized by the manufacturer.

Accessories

Various accessories are available; refer to the manufacturer’s accessory catalog.

---

**WARNING!**

Use only genuine accessories supplied and authorized by the manufacturer.
Packing and unpacking

Dispose of the packing materials in compliance with the laws in force.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>lbs.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHT37EXP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>(kg)</td>
</tr>
<tr>
<td></td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td></td>
</tr>
<tr>
<td>13 gal.</td>
<td>53.1</td>
<td>27.6</td>
<td>71.1</td>
<td>452.1</td>
</tr>
<tr>
<td>(25 L)</td>
<td>(1350)</td>
<td>(700)</td>
<td>(1805)</td>
<td>(205)</td>
</tr>
<tr>
<td>26 Gallons</td>
<td>53.1</td>
<td>27.6</td>
<td>71.1</td>
<td>458.1</td>
</tr>
<tr>
<td>(100 L)</td>
<td>(1350)</td>
<td>(700)</td>
<td>(1805)</td>
<td>(208)</td>
</tr>
</tbody>
</table>

* Weight with packaging

Unpacking, moving, use and storage

Operate on flat, horizontal surfaces.

The load-bearing capacity of the surface the vacuum cleaner is placed on must be suitable for bearing its weight.

Setting to work - connection to the power supply

WARNING!

- Make sure there is no evident sign of damage to the vacuum cleaner before starting work.
- Before plugging the vacuum cleaner into the electrical mains, make sure the voltage rating indicated on the data plate corresponds to that of the electrical mains.
- Plug the vacuum cleaner into a socket with a correctly installed ground contact/connection. Make sure that the vacuum cleaner is turned off.
- The plugs and connectors of the power supply cords must be protected against splashes of water.
- Check the proper connection to the electrical mains.
- Use the vacuum cleaner only when the cord that connects to the electricity mains is in good condition (damaged cords could lead to electric shock!).
- Regularly check there are no signs of damage, excessive wear, cracks or aging on the electric cord.

When the device is operating, do not:

- Crush, pull, damage or tread on the cord that connects to the electrical mains.
- Only disconnect the cord from the electrical mains by removing the plug (do not pull the cord).
- Only replace the power supply cord with one of the same type as the original: SOOW. The same rule applies if an extension is used.
- The cord must be replaced by the manufacturer’s Service Center staff or by equivalent qualified personnel.

Warning labels

Labels:

1. Warning: Explosion proof plug installed shall be certified and be suitable for the hazardous area that the vacuum is installed in
2. Warning: To reduce the risk of electric shock - do not use outdoor
   Caution: Open circuit before removing cover and keep covers tight while circuits are alive
   Warning: Explosion hazard - use only Nilfisk hose
   Warning: The vacuum must be cleaned only with a damp cloth
Extensions
If an extension cord is used, make sure it is suitable for the power input and protection degree of the vacuum cleaner.

**WARNING!**
The vacuum cleaner’s power socket must be protected by a differential circuit-breaker with surge current limitation that shuts off the power supply when the current discharged to the ground exceeds 30 mA for 30 ms or an equivalent protection circuit.

**WARNING!**
Never spray water on the vacuum cleaner: this could be dangerous for persons and could short circuit the power supply.

Dry applications

[ NOTE ]
The supplied filters must be installed correctly.

**WARNING!**
Comply with the safety regulations governing the materials for which the vacuum cleaner is used.

Maintenance and repairs

**WARNING!**
Disconnect the vacuum cleaner from its power source before cleaning, servicing, replacing parts or converting it to obtain another version/variant; the plug must be removed from the socket.

- Carry out only the maintenance operations described in this manual.
- Use only original spare parts.
- Do not modify the vacuum cleaner in any way.

Failure to comply with these instructions could jeopardize your safety. Moreover, such action would immediately void the warranty of the device.

**WARNING!**
Contact the manufacturer’s technical service or sales network for maintenance operations not described in this manual.
## Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>VHT37EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>Hz</td>
<td>60</td>
</tr>
<tr>
<td>Voltage, 3-phase</td>
<td>V</td>
<td>220 460 575</td>
</tr>
<tr>
<td>Current draw</td>
<td>A</td>
<td>11.2 5.6 4.5</td>
</tr>
<tr>
<td>Power rating @ 60 Hz</td>
<td>HP (kW)</td>
<td>5 (3.7)</td>
</tr>
<tr>
<td>Noise Level, @ 3’ 3” (1 meter) ISO 3744</td>
<td>dB(A)</td>
<td>72</td>
</tr>
<tr>
<td>Motor insulation class</td>
<td>Class</td>
<td>B</td>
</tr>
<tr>
<td>Container capacity</td>
<td>gal. (L)</td>
<td>13 (50) 26 (100)</td>
</tr>
<tr>
<td>Inlet diameter</td>
<td>mm</td>
<td>70</td>
</tr>
<tr>
<td>Max vacuum (controlled)</td>
<td>in. (mm) H₂O</td>
<td>85 (2159)</td>
</tr>
<tr>
<td>Maximum air flow rate, blower</td>
<td>CFM (L/min)</td>
<td>218 (6167)</td>
</tr>
<tr>
<td>Main filter surface area</td>
<td>ft² (m²)</td>
<td>20.99 (1.95)</td>
</tr>
<tr>
<td>Upstream filter surface - HEPA MPPS method (EN 1822)</td>
<td>ft² (m²)</td>
<td>37.7 (3.5)</td>
</tr>
<tr>
<td>Downstream filter surface - ULPA MPPS method (EN 1822)</td>
<td>ft² (m²)</td>
<td>86.11 (8.0)</td>
</tr>
<tr>
<td>Power cord length (14/4 SOOW)</td>
<td>ft. (m)</td>
<td>50 (15)</td>
</tr>
</tbody>
</table>

### Dimensions

#### Figure 4

<table>
<thead>
<tr>
<th>Model</th>
<th>VHT37EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>13 gal. (50L)</td>
</tr>
<tr>
<td>A in. (mm)</td>
<td>50.8 (1290)</td>
</tr>
<tr>
<td>B in. (mm)</td>
<td>23.6 (600)</td>
</tr>
<tr>
<td>C in. (mm)</td>
<td>49.6 (1260)</td>
</tr>
<tr>
<td>Weight lbs. (kg)</td>
<td>386 (175)</td>
</tr>
</tbody>
</table>

- **Storage conditions:**
  - Temperature: +14°F ÷ +104°F (-10°C ÷ +40°C)
  - Humidity: ≤ 85%

- **Operating conditions:**
  - Maximum altitude: 2,624 ft. (800 m)
  - [Up to 6,561 ft. (2,000 m) with reduced performances]
  - Temperature: +14°F ÷ +104°F (-10°C ÷ +40°C)
  - Humidity: ≤ 85%
Safety devices

1. Regenerative blower
2. Pressure relief valve
3. Check valve (Clapet)

**WARNING!**
Do not tamper with the pressure relief valve setting.

Controls, indicators and connections

1. Container release handle
2. Swivel caster with brake
3. Manual filter shaker knob
4. Vacuum gauge
5. Manual motor starter
6. Band latch
7. Power supply cord
8. Push bar handle

Inspections prior to starting

1. Inlet

Prior to starting, check that:
- The filter is installed;
- All latches are tightly locked;
- The vacuum hose and tools have been correctly fitted into the inlet (1);
- The polyliner is installed, if applicable.

**WARNING!**
Do not use the device if the filter is faulty.

Starting/stoping the vacuum cleaner

**WARNING!**
Lock the caster brakes (1) before starting the vacuum cleaner.

Standard version

- Turn the manual motor starter (2) to the “I” position to start the vacuum cleaner.
- Turn the manual motor starter (2) to the “0” position to turn the vacuum cleaner off.

Checking the rotation direction of the vacuum unit motor

Check the vacuum cleaner operation by putting a hand over the inlet.
If the vacuum cleaner does not vacuum any air, the rotation direction is not correct; remove the plug from the socket and exchange the connection of two phases inside the plug to perform the correct phase sequence.

Vacuum cleaner operation

Vacuum gauge (2): green zone (3), red zone (1)

Check the flow rate:
- when the vacuum cleaner is operating, the pointer of the vacuum gauge must remain in the green zone (3) to ensure that the speed of the intake air does not drop below the safety value of 3937 ft/min (20 m/s);
- if the pointer is in the red zone (1) it means that the speed of the air in the vacuum hose is less than 3937 ft/min (20 m/s) and that the vacuum cleaner is not operating in safety conditions. The filter must be shaken or replaced.
- during normal operation conditions, close the vacuum hose, the pointer of the vacuum gauge must switch from the green zone (3) to the red zone (1).

**WARNING!**
When the vacuum cleaner is operating, always check that the vacuum gauge pointer remains in the green zone (3). Consult the “Troubleshooting” chapter if faults occur.
Shaking the primary filter

Depending on the vacuumed dust quantity and if the pointer of the vacuum gauge switches from the green zone (3, Fig. 9) to the red zone (2, Fig. 9), turn the vacuum cleaner off and shake the main filter using the knob (1, Fig. 10).

**WARNING!**
Stop the vacuum cleaner before shaking the filter. Do not shake the filter while the vacuum cleaner is on, as this could damage the filter itself.

Wait a few seconds before restarting the vacuum cleaner, to allow the dust to settle. Replace the filter element if the pointer still remains in the red zone (1, Fig. 9) even after the filter has been shaken (consult the “Primary star filter replacement” paragraph).

Emergency stopping

Turn the manual motor starter to the “0” position.

Emptying the container

**WARNING!**
Before proceeding with these operations, turn off the vacuum cleaner and remove the plug from the power socket.

Before emptying the container it is advisable to clean the filter (see “Shaking the primary filter” paragraph).

Polyliner

An antistatic polyliner can be used to collect dust (see Fig. 11). In this case, the vacuum cleaner must be equipped with optional accessories [depressor (3) and grid (2), Fig. 11].

At the end of a cleaning session

- Turn off the vacuum cleaner and remove the plug from the socket.
- Coil the power supply cord and store it on the hanger at the center of the handle (Fig. 12). Empty the container as described in the “Emptying the container” paragraph.
- Clean the vacuum cleaner as described in the “Maintenance, cleaning and decontamination” paragraph.
- Wash the container with clean water if aggressive substances have been vacuumed.
- Store the vacuum cleaner in a dry place, out of reach of unauthorized people.

**[NOTE]**
Let the vacuum cleaner run for at least 60 seconds before turning it off.
Wait at least 5 minutes before turning the vacuum on again. Failure to follow these instructions could cause premature wear of motor / starter.

Maintenance, cleaning and decontamination

**WARNING!**
The precautions described below must be taken during all maintenance operations, including cleaning and replacing the primary and HEPA filters.

**WARNING!**
The maintenance, cleaning and decontamination operations must only be performed with the vacuum cleaner turned off and the plug disconnected from the power socket. It is absolutely forbidden to perform maintenance with the plug connected to the socket. Danger of electric shock!

- If the user is performing the maintenance operations, all the suitable precautions should be taken. The suitable precautions include decontamination, adequate filtered ventilation of the exhaust air from the room in which maintenance is performed, cleaning the maintenance area and suitable personal protection.

**WARNING!**
This vacuum cleaner can be equipped with an absolute (HEPA) filter for vacuuming dust hazardous to one’s health. The procedures for servicing and emptying the vacuum cleaner, including removing the dust container, must only be performed by authorized personnel wearing protective clothing. Do not use without the complete filter system in place.

- All parts of the vacuum cleaner must be considered contaminated when they are removed from the hazardous zone and appropriate actions must be taken to prevent the dispersion of dust. When maintenance or repair procedure are carried out, all the contaminated elements that cannot be properly cleaned must be eliminated. These elements must be disposed of in sealed bags, conform to applicable regulations and in accordance with the local laws governing the disposal of such material. This procedure must also be followed when the filters are eliminated (primary and absolute filters). Compartments that are not dust-tight must be opened with suitable tools (screwdrivers, wrenches, etc.) and thoroughly cleaned.

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Primary and absolute filter disassembly and replacement

**WARNING!**

When the vacuum cleaner is used to vacuum hazardous substances, the filters become contaminated, therefore:

- Work with care and avoid spilling the vacuumed dust and/or material;
- Place the disassembled and/or replaced filter in a sealed plastic bag;
- Close the bag hermetically;
- Dispose of the filter in accordance with the laws in force.

**WARNING!**

Filter replacement is a serious matter. The filter must be replaced with one of identical characteristics, filtering surface and category. Otherwise the vacuum cleaner will not operate correctly.

Primary star filter replacement

Figure 13

1. Vacuum union hose
2. Band latch
3. Lid
4. Hose clamp

Take care not to raise dust when this operation is carried out. Wear an N100 (P3) mask and other protective clothing including protective gloves (PPE / DPI) suited to the hazardous nature of the dust collected, refer to the laws in force.

Before proceeding with these operations, turn off the vacuum cleaner and remove the plug from the power socket.

- Loosen the hose clamp (4).
- Remove the vacuum union hose (1).
- Use the band latch (2) to remove the lid (3) together with the primary star filter.
- Remove the old star filter from the cage.
- Fit the new star filter and secure it in the cage with special ties.
- Install the lid and the primary star filter in the reverse order of removal.
- Dispose of the old star filter according to the laws in force.

If necessary contact the manufacturer’s Service Center.

Upstream absolute filter replacement

Version for dust harmful for the health

**WARNING!**

Take care not to raise dust when this operation is carried out. Wear an N100 (P3) mask and other protective clothing including protective gloves (PPE / DPI) suited to the hazardous nature of the dust collected; refer to the laws in force.

**WARNING!**

Do not use the absolute filter again after having removed it from the vacuum cleaner.

Upstream absolute filter replacement

Figure 14

1. Manual filter shaker knob
2. Lid
3. Band latch
4. Stop nut (absolute filter)
5. Absolute filter retaining plate
6. Primary star filter
7. Primary star filter clamp fixing screw
8. Primary star filter clamp
9. Absolute filter (HEPA)
10. Vacuum union hose
11. Hose clamp

- Stop the vacuum cleaner.
- Loosen the hose clamp (11) with a screwdriver and remove the vacuum union hose (10).
- Unscrew the manual filter shaker knob (1).
- Use the band latch (3) to remove the lid (2).
- Loosen the fixing screw (7) of the primary star filter (6) clamp (8) using a screwdriver.
- Remove the filter retaining plate (5) with the absolute filter installed and unscrew the stop nut (4).
- Remove the absolute filter (9).
- Cover the absolute filter (9) with a plastic bag, close the plastic bag hermetically and dispose of the filter in accordance with the laws in force.
- Insert a new absolute filter (9) with the same filtering characteristics as the removed one.
- Lock the absolute filter with the nut (4).
- Tighten the clamp (8) fixing screw (7) of the primary star filter (6) to the absolute filter retaining plate (5).
- Insert the lid (2) again.
- Close the cover hermetically by means of the band latch (3).
- Fit the vacuum union hose (10) back in place and tighten the hose clamp (11).
Motor cooling fan inspection and cleaning

**WARNING!**

These operations can only be carried out by trained and qualified personnel.

Periodically clean the motor cooling fan to prevent the motor from overheating, especially if the vacuum cleaner is used in a dusty place (1, Fig. 5).

Seal inspection

**Hoses check**

Make sure that the connecting hoses are in good condition and correctly fixed.

If the hoses are damaged, broken or badly connected to the unions, they must be replaced.

When sticky materials are collected, check for possible clogging along the hose (3, Fig. 15), in the inlet and on the deflector inside the filtering chamber.

Scrape the inlet (3, Fig. 15) from the outside and remove the deposited waste as indicated in Figure 15.

Filter chamber seal check

If the gasket (1, Fig. 16) between the container and the filter chamber (3) fails to guarantee tightness:

- Loosen the four screws (2) that lock the filtering chamber (3) against the vacuum cleaner structure.
- Allow the filtering chamber (3) to lower down and tighten the screws (2) once it has reached the tightness position.

If an optimal seal cannot be obtained and the gasket (1) is torn or cracked, etc. it must be replaced.

Cyclone filter protector cleaning and replacement (optional)

**NOTE**

If there is a dust deposit on the separator (3, Fig. 17) allow the dust to drop through the central hole.

The cyclone filter protector (3, Fig. 17) should first be disassembled in order to be perfectly cleaned:

- Use the band latch (1) to remove the lid (2) together with the primary star filter.
- Unscrew the two screws (4) and remove it from the container.

Replace the part if it is excessively worn.

Assemble the components in the reverse order of disassembly.

---

### Wiring diagrams

**Figure 18**

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>4083901574 + 4083901573</td>
<td>Under voltage release 460V 60Hz</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4083901574 + 4083901578</td>
<td>Under voltage release 220V 60Hz</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>4083901574 + 4083901579</td>
<td>Under voltage release 575V 60Hz</td>
<td>1</td>
</tr>
<tr>
<td>Q1</td>
<td>8-39679</td>
<td>4-6.3A circuit breaker (460V 60Hz, 575V 60Hz)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>8-39681</td>
<td>10-16A circuit breaker (220V 60Hz)</td>
<td>1</td>
</tr>
</tbody>
</table>
Recommended spare parts

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

Refer to the manufacturer’s spare parts catalog when ordering spare parts. Please contact the manufacturer’s sales network when seeking spare parts for special machine variants or options.

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Star filter kit</td>
<td>40000425</td>
</tr>
<tr>
<td>Filter ring gasket ss</td>
<td>8-17126</td>
</tr>
<tr>
<td>Filter chamber gasket</td>
<td>40000762</td>
</tr>
<tr>
<td>Filter clamp</td>
<td>ZB 18079</td>
</tr>
<tr>
<td>Replacement upstream absolute (HEPA) filter</td>
<td>4081700935</td>
</tr>
</tbody>
</table>

Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>The vacuum cleaner suddenly stops</td>
<td>Clogged primary filter</td>
<td>Shake the filter. Replace it if necessary</td>
</tr>
<tr>
<td></td>
<td>Clogged vacuum hose</td>
<td>Check the vacuum hose and clean it.</td>
</tr>
<tr>
<td></td>
<td>Circuit breaker activation</td>
<td>Check the setting. Check the motor electrical input. Contact an authorized after-sales service center if necessary.</td>
</tr>
<tr>
<td>Dust leaks from the vacuum cleaner</td>
<td>The filter is torn</td>
<td>Replace it with another of identical type.</td>
</tr>
<tr>
<td></td>
<td>Inadequate filter</td>
<td>Replace it with another of a suitable category and check.</td>
</tr>
<tr>
<td>The vacuum cleaner blows instead of vacuuming</td>
<td>Incorrect connection to the electrical mains</td>
<td>Ask for assistance from qualified personnel to perform the correct phase connection. See page 8: “Starting/stopping the vacuum cleaner.”</td>
</tr>
<tr>
<td>Electrostatic current on the vacuum cleaner</td>
<td>Non existent or inefficient grounding</td>
<td>Check all ground connections. Especially check the connection at the inlet. See test for ground continuity on page 2</td>
</tr>
</tbody>
</table>
WARRANTY

Nilfisk warrants that its equipment will be free of defects in workmanship or material for a period of two years from the date of delivery. If the vacuum fails to meet these warranty standards, Nilfisk shall, upon notification within such time period, correct such non-conformity, at its option, either by repairing any defective part or parts, or by replacing a part or parts, provided that the equipment is returned to an authorized Nilfisk service facility. In all cases freight both ways will be at expense of the customer. Equipment shall not be returned without advance notice to, and consent of Nilfisk.

EXCEPT AS SPECIFICALLY SET FORTH HEREIN, NILFISK MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, AS TO ANY MATTER WHATSOEVER, INCLUDING WITHOUT LIMITATION ANY AND ALL WARRANTIES OF MERCHANTABILITY, FITNESS OF PURPOSE, OR OTHER WARRANTIES, ALL OF WHICH ARE EXPRESSLY DISCLAIMED AND EXCLUDED. NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PRODUCTION, LOSS OF PROFITS OR ANY OTHER SIMILAR INDIRECT LOSSES WHICH MIGHT OCCUR AS A RESULT OF DEFECTS, PARTIAL OR TOTAL FAILURE OF THE PRODUCT TO PERFORM AS SPECIFIED.

Correction of non-conformities or defects in the manner and for the period of time provided above, shall constitute fulfilment of all liabilities of Nilfisk to the customer, whether based on contract, negligence or otherwise with respect to, or arising out of such equipment. The remedies set forth herein are exclusive, and the liability of Nilfisk with respect to this sale or anything done in connection therewith, whether in contract, in tort, under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the equipment or part on which such liability is based.

This warranty does not cover repairs due to normal wear and tear, accident, neglect, misuse or abuse, incorrect installation or use other than as described in the instruction booklet. Breaks in hoses and cables are not covered.

This warranty is rendered void if the motor number plate is removed or defaced or if repairs are made or attempted by persons not authorized by Nilfisk.

Some states do not allow exclusion of implied warranties or limitations on how long an implied warranty lasts so the above exclusions or limitation of implied warranties may not apply. Some states do not allow exclusion or limitation of incidental or consequential damages so the above exclusion or limitation of incidental or consequential damages may not apply. Limited warranties set forth above give specific legal rights. Customer may have other rights which vary from state to state.

DISCLAIMER

The purchaser and intended user of this Nilfisk EXP vacuum acknowledge that their Authority Having Jurisdiction (AHJ) as defined in Article 100 of the National Electric Code (NEC – NFPA 70) has determined this specific type of vacuum equipment is suitable for use in the intended applications and hazloc rated environments. Nilfisk-Advance, the product manufacturer, is not an AHJ and cannot approve any particular EXP vacuum product for any specific application or use. It is the purchaser’s and the intended user’s responsibility to ensure that the vacuum is used properly as described in the instruction manual and in accordance with the AHJ’s approval. By issuing a purchase order, the purchaser and intended user acknowledge understanding the role of their AHJ along with the capabilities and limitations of the vacuum equipment. If you require assistance in identifying your AHJ, please contact your local Nilfisk District Manager for assistance.

Nilfisk Industrial Vacuums, 740 Hemlock Lane, Suite 100, Morgantown, PA 19543, (800)-645-3475
WARNING: Explosion Proof Plug Installed Shall Be Certified And Be Suitable For The Hazardous Area That The Vacuum Is Installed In

AVERTISSEMENT: Une Fiche Antideflagrante Installée Sera Certifiée Et Conforme Aux Zones Dangereuses Où L’Aspirateur Est Installé

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK - DO NOT USE OUTDOOR
AVIS: AFIN DE REDUIRE LE RISQUE DE CHOC ELECTRIQUE - NE PAS UTILISER À L’EXTERIEUR

CAUTION: OPEN CIRCUIT BEFORE REMOVING COVER AND KEEP COVERS TIGHT WHILE CIRCUITS ARE ALIVE
ATTENTION: OUVRIR LE CIRCUIT AVANT D’ENLEVER LE COUVERCLE - GARDER LE COUVERCLE BIEN FERME TANT QUE LES CIRCUITS SONT SOUS TENSION

WARNING: EXPLOSION HAZARD USE ONLY NON-FIRE HOSE
AVIS: RISQUE D’EXPLOSION - UTILISER SEULEMENT DES TUYAUX NON-FLAMME

WARNING: THE VACUUM CLEANER MUST BE CLEANED ONLY WITH A DAMP CLOTH
AVIS: L’ASPIRATEUR DOIT ÊTRE NETTOYÉ UNIQUEMENT AVEC UN CHIFFON HUMIDE

A
B
C

VOLT