

Owner Instructions

Original Instructions



CAUTION, Read instructions before using the machine

HZ 190, 200, 250, 350, 370, 450, 570, 750, 900

HZD 450, 570, 750, 900



Hazardous Dust Machines



www.numatic.com



Kits and Bags

| | | |
|---------|----------|-------------------|
| HZ 190 | Kit AA17 | NVM 1CH |
| HZ 200 | Kit AA17 | NVM 1CH |
| HZ 250 | Kit AA17 | NVM 1CH |
| HZ 350 | Kit AA18 | NVM 2BH |
| HZ 370 | Kit AA18 | NVM 2BH |
| HZ 450 | Kit AA19 | NVM 3AH |
| HZ 570 | Kit AA19 | NVM 3BH / NVM 3BM |
| HZ 750 | Kit AA20 | NVM 4BH / NVM 4BM |
| HZ 900 | Kit AA20 | NVM 4BH / NVM 4BM |
| HZD 450 | Kit BB19 | NVM 3AH |
| HZD 570 | Kit BB19 | NVM 3BH / NVM 3BM |
| HZD 750 | Kit BB20 | NVM 4BH / NVM 4BM |
| HZD 900 | Kit BB20 | NVM 4BH / NVM 4BM |

HZD Kits





607470 AA17 (190, 200, 250 Type)



902242 AA18 (350, 370 Type)



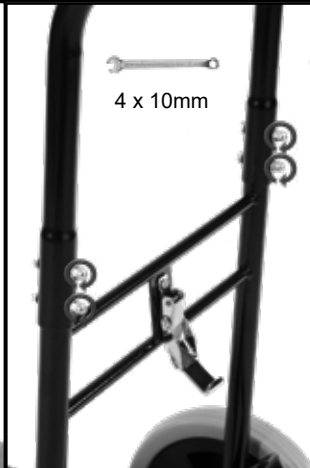
902243 AA19 (470, 570 Type)



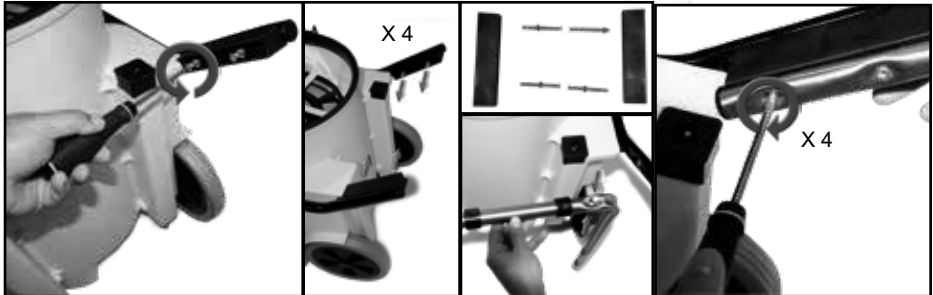
902244 AA20 (750, 900 Type)

Handle Assembly, 350, 450, 750

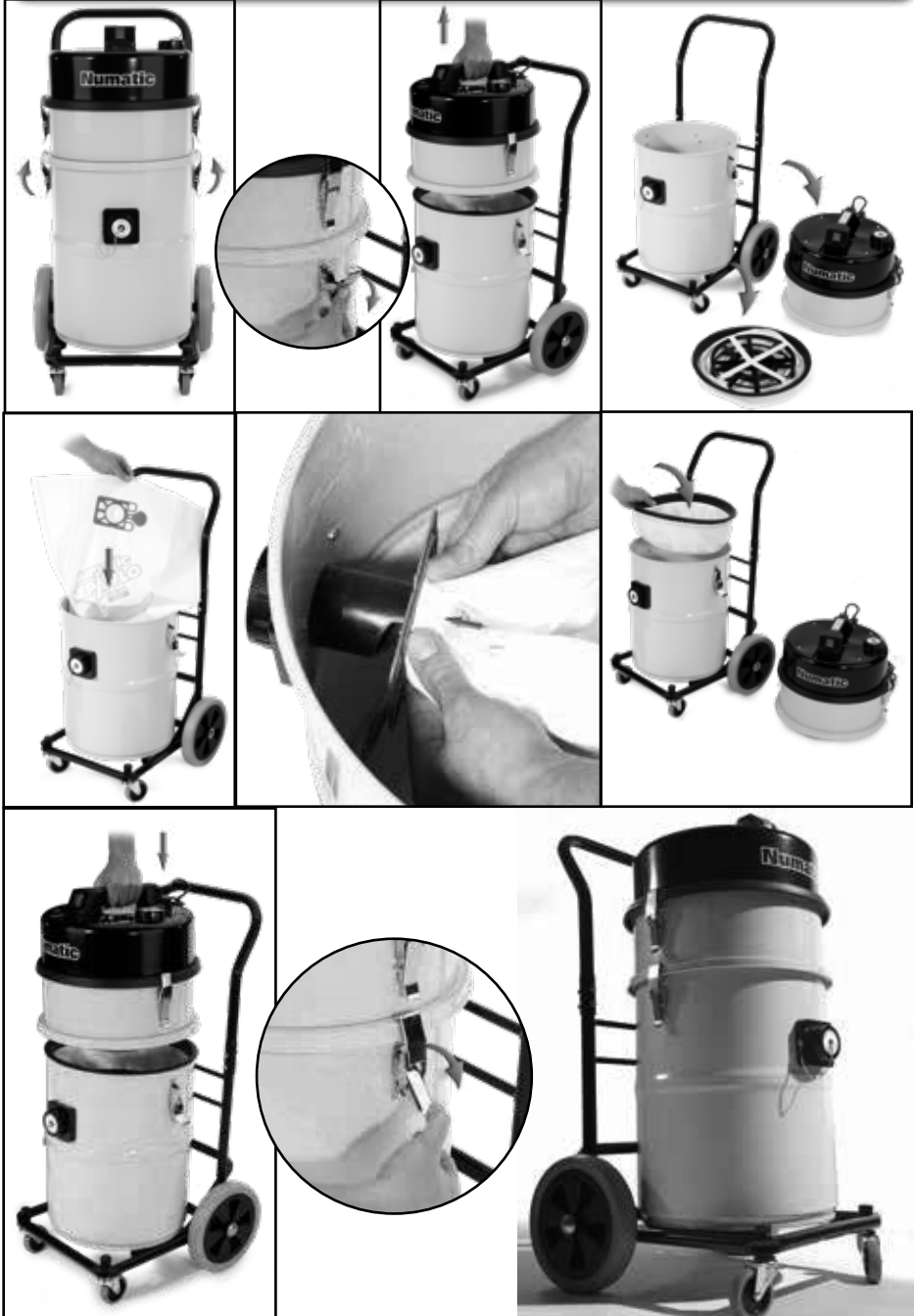
HZ 350
HZ 450
HZ 750
HZD 450
HZD 750



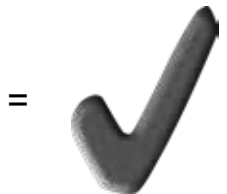
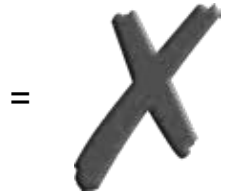
Handle Assembly, 900



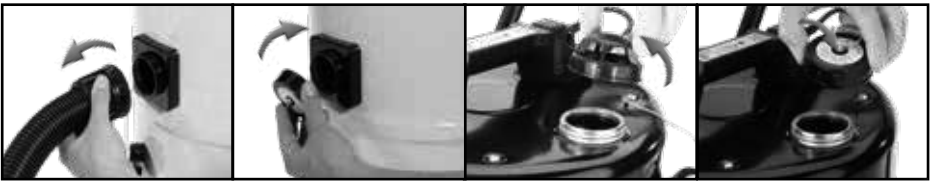
Fitting the bag



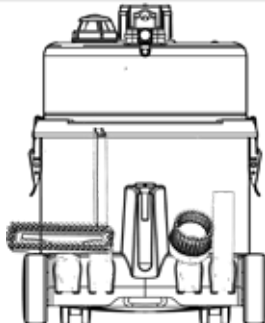
Fitting the hose, Fitting the air separator

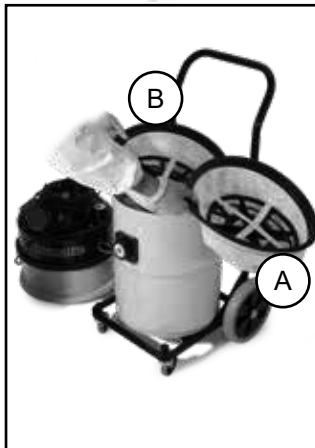


Moving the machine.



(370 Drum only) Tool Tidy





Low Flow Indicator

This appliance is fitted with a low flow indicator to show that air flow has reduced. In the event of the indicator light flashing, check the following:-



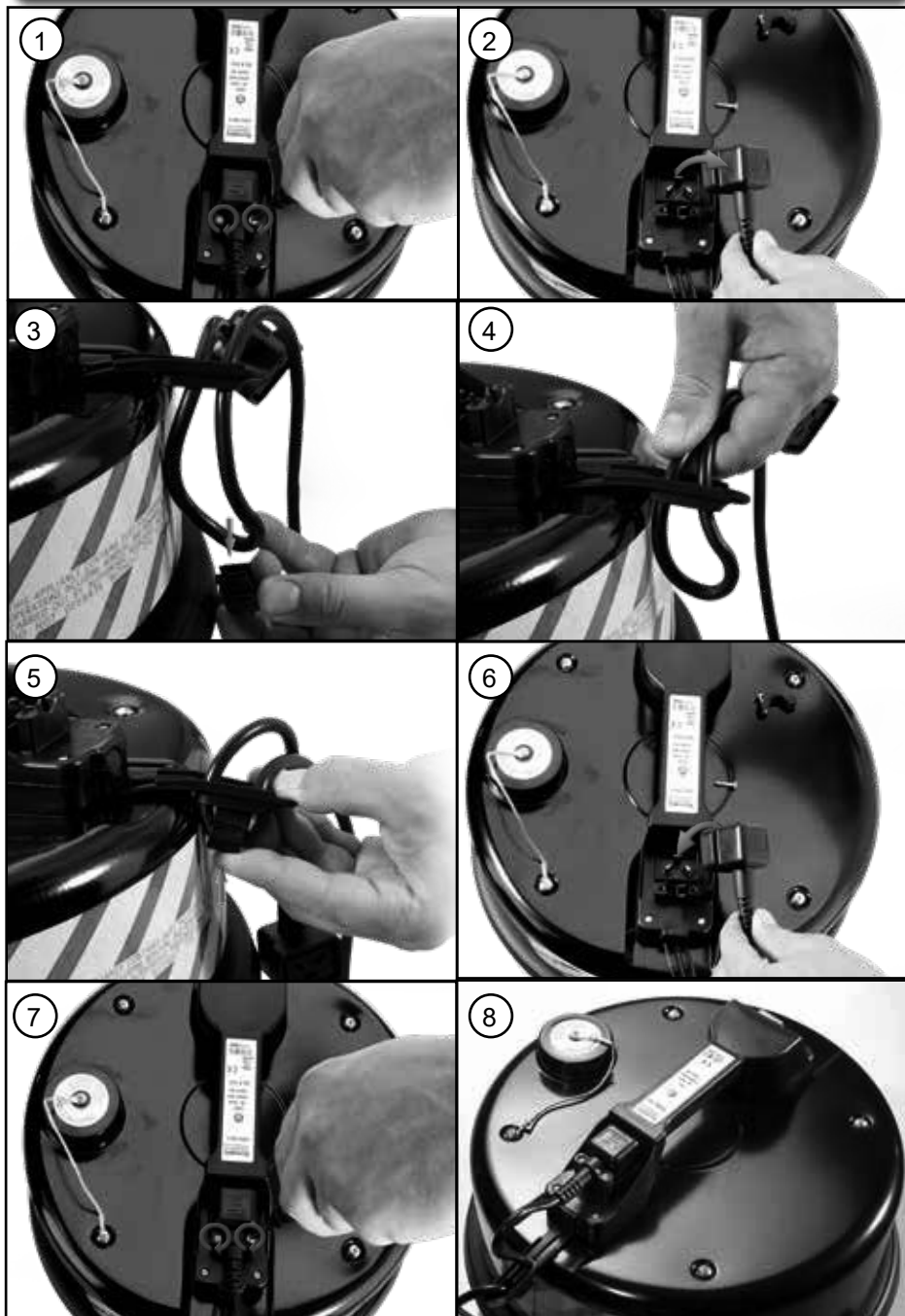
| Cause | Solution |
|------------------------|---|
| Dust caps still fitted | Remove the caps. |
| Blocked hose | Unblock the hose. |
| Bag full | Remove and replace |
| Cloth filter clogged | Remove and replace, clean dirty filter by vacuuming. |
| Hepa cartridge clogged | Replace, seek advice from an instructed person or manufacturer. |

| Variant | Simplex | Duplex |
|---|---|-----------------------------------|
| Model | HZ 190, 200, 250, 350, 450, 570, 750, 900 | HZD 450, 570, 750, 900 |
| Classification | TYPE H | TYPE H |
| Voltage | 115 / 120 / 220-240V | 115 / 120 / 220-240V |
| Frequency | 50 / 60Hz | 50 / 60Hz |
| Power rating | 1000 W | 1000 W x 2 |
| Sound Pressure (LpA) Uncertainty (KpA) | 65 dB(A) 0.5 dB | 67 dB(A) 0.5 dB |
| Low flow operation | 16L/sec (0.96m ³ /min) | 22L/sec (1.32m ³ /min) |

(NB 16L/sec corresponds to an airspeed of 20m/sec in a 32mm pipe)

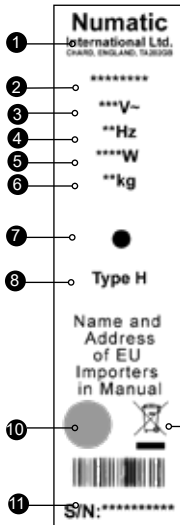
(NB 22L/sec corresponds to an airspeed of 20m/sec in a 38mm pipe)

Changing the cable.



Rating Label

| | |
|----|-------------------------------------|
| 1 | Company Name & Address |
| 2 | Model |
| 3 | Voltage / Alternating Current |
| 4 | Frequency |
| 5 | Rated Input Power |
| 6 | Weight |
| 7 | Low Flow Indicator *(If applicable) |
| 8 | Hazardous Rating |
| 9 | WEEE Logo |
| 10 | Approval Mark |
| 11 | Machine yr/wk Serial Number |



Maintenance

Daily
 Keep the machine clean, including hoses and tubes. Ensure the bag and filter are fitted. Regularly examine the power cord. Check dust bag frequently. Check filters are clean.

Weekly - as daily and:-
 Check for any worn or damaged parts and replace immediately.

WEEE Legislation (Waste, Electrical and Electronic Equipment)
 Vacuum cleaner, accessories and packaging should be sorted for environmentally - friendly recycling.

(Only for UK/EU Countries)
 Do not dispose of vacuum cleaner into household waste! According to the European Directive 2012/19/EU on waste electrical and electronic equipment and its incorporation into national law. Vacuum cleaners that are no longer suitable for use must be separately collected and sent for recovery in an environmentally - friendly manner.



PPE (personal protective equipment). That may be required for certain operations.

| | | | | |
|----------------|---------------------|-----------------------------|---------------|--------------------|
| | | | | |
| Ear Protection | Safety Footwear | Head Protection | Safety Gloves | |
| | | | | |
| Eye Protection | Protective Clothing | Dust / Allergens Protection | Hi Viz Jacket | |
| | | | | Caution Floor Sign |

NOTE: A risk assessment should be conducted to determine which PPE should be worn.

Failure to rectify the problem or in the event of a breakdown contact your Numatic dealer or the Numatic Technical helpline +44 (0)1460 269268

Safety Critical Components

Mains leads:
 H05VV-F 10m x 3 Core x 1.0mm²
 (115V) H05VV-F 10m x 3 Core x 1.5mm²

WARNING

Read the instruction manual before using the machine.
Operators shall be adequately instructed on the use of these machines.

As with all electrical equipment, care and attention must be exercised at all times during use, in addition to ensuring that routine and preventative maintenance is carried out periodically to ensure safe operation.

Failure to carry out maintenance as necessary, including the replacement of parts to the correct standard could render this equipment unsafe and the manufacturer can accept no responsibility in this respect.

This machine is for DRY USE only and must not be stored outside or used in wet conditions.
The machine shall be disconnected from the mains by removing the plug from the supply socket during cleaning or maintenance and when replacing parts or converting the machine to another function.

This machine is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge.

Children should be supervised to ensure they do not play with the machine
This machine is not a toy.

CAUTION

Ensure that the filtration system fitted to the machine is suitable for the material being collected.
This machine is for use indoors only.
This machine should be stored indoors only.

NOTES

This machine is intended for commercial use, for example in hotels, schools, hospitals, factories, shops, offices.
This product complies with the requirements of clause 20 of EN 60335-2-69 Stability and Mechanical Hazards.

DO

- Keep your machine clean.
- Keep filters clean.
- Use filter bags, they will enhance performance and help keep machine clean.
- Use a Numatic Original filter bag under fine dust conditions.
- Keep hoses and tubes clear.
- Replace any worn or damaged parts immediately.
- Regularly examine the power cord. If damage is found such as cracking or ageing the power cord must be replaced by a qualified person using the correct Numatic original part.
- Change dust bag frequently.
- Only use the brushes provided with the machine. The use of other brushes may impair safety.
- Only replace the power cord with the correct Numatic approved replacement part.

DO NOT

- Allow the rotating brush to come into contact with the supply cord (where rotating brushes are fitted).
- Pull on the cable to unplug the machine from the power supply.
- Use to suck up hot ashes or lighted cigarette ends.
- Use steam cleaners or pressure washers to clean the machine or use in the rain.
- Immerse in water for cleaning.
- Attempt machine maintenance or cleaning unless the power supply plug has been removed from the supply outlet.
- Under any circumstances place foreign objects including (but not limited to) air fresheners, air freshener capsules or scented beads of any type into the top filter of the machine. Doing so can be dangerous and risk damage to the machine and may invalidate the machine warranty.

IMPORTANT USER INFORMATION

Before use operators shall be provided with information, instruction and training for the use of the machine and the substances for which it is to be used, including the safe method of disposing of material collected.

The dust container has to be emptied when necessary, but also after every time used.

This vacuum cleaner has a lamp that illuminates when air velocity drops below a preset level, which indicates that the bag must be changed.

This machine is not suitable for connection with dust generating machines.

All filters including the bag must be undamaged and in correct position before this machine can be used safely.

CAUTION: This machine is for dry use only and is not to be used or stored outdoors in wet conditions.

Do not pick up glowing embers or dust or any other ignition hazard

Do not use the power cable as a method of moving the machine.

WARNING:

1. This machine must only be operated by suitably trained and authorised personnel.
2. This machine or its accessories must not be modified.
3. The machine must not be stored or used in a wet environment.
4. Do not allow the dust collection bag (NVM-2BH) to become so full as to reduce the effective pick-up of the vacuum. (Lamp will illuminate at preset air velocity levels < 16 m/s). Only use the dust collection bag (NVM-2BH) once.
5. Only use the dust collection bag (NVM-2BH) once.
6. This machine must only be repaired by suitably trained and authorised personnel.
7. Only use genuine Numatic International Ltd spare parts, for repairs.
8. This machine must not be installed as a fixed extraction system or run unattended.
9. Do not re-use the essential filter element after removal out of the machine.

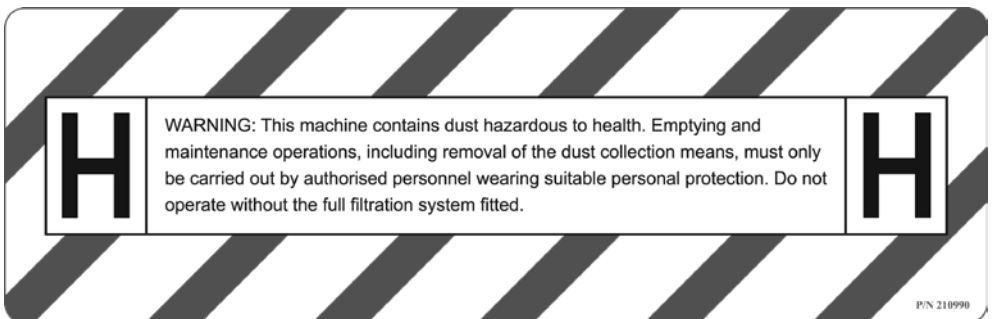
Operators should observe any safety regulations appropriate to materials being handled.

This machine is for dry use only.

PREPARATION FOR USE

Unpack and identify each item of equipment from the delivery note.

Check that the details given match the information on the "rating plate" mounted on the head assembly.



Installation / Removal / Disposal of the dust bag.

The dust bag holding the dust and debris must be removed and renewed by authorised personnel only, wearing appropriate personnel protective equipment, in a specified de-contamination area.

Never operate without the full filtration system in place.

Process of disposal:

Disconnect the hose, fit the Dust Cap on the Hose Flange, un-clip the bottom two Toggle Clamps.

Remove the cloth filter (A) in the Drum. Remove the dust bag from the Hose Flange inside the drum and seal the Dust Bag hole. Place the Dust Bag inside an impervious plastic bag and seal the bag.

Dispose of the plastic bag, depending on contamination, in an appropriate manner.

Fit a new Dust Bag over the Hose Flange inside the drum assembly. Fit the cloth filter (B), and the Head.

MAINTENANCE

All machine parts should be regarded as contaminated when removed from the hazardous area and appropriate action taken to prevent dust dispersal.

Disconnect from the power supply during cleaning, maintenance or when replacing parts. Ensure the plug is removed from the Power socket outlet.

Maintenance must be carried out in a suitable non hazardous area with facilities for cleaning the area after servicing, and with suitable ventilation.

Maintenance and cleaning work must always be carried out by competent authorised personnel equipped with suitable personal protection.

The cloth filter must be taken out and checked for degree of contamination, and damage to cloth or seals. If the cloth seal is found to be damaged or badly contaminated, you must replace. If only mildly contaminated, either wipe clean or wash with a mild detergent (ensure it is dry before replacing).

Items that can not be satisfactorily cleaned (e.g. filters) need to be disposed of in an impervious plastic bag and disposed of in accordance with current regulations. Replace the items that cannot be satisfactorily cleaned using approved manufacturer parts.

Regularly examine the supply cord for damage, such as cracking or ageing. If damage is found, replace the cord before further use.

All parts of this vacuum are safety critical only replace with the genuine Numatic spare parts.

For user servicing, the machine must be dismantled, cleaned and serviced, as far as is reasonably practicable, without causing risk to maintenance staff and others.

Suitable precautions include decontamination before dismantling, provision for local filtered exhaust ventilation where the machine is dismantled, cleaning of the maintenance area and suitable personal protection.

In class H machines the outside of the machine should be decontaminated by vacuum cleaning methods and wiped clean or treated with a sealant before being taken out of the hazardous area and appropriate action taken to prevent dust dispersal. (HSE Risk Assessment needed).

A competent person shall perform a technical inspection at least annually, consisting of, for example, inspection of filters for damage, air tightness of the machine and proper function of the control mechanism.

Also the filtration efficiency should be tested at least annually, or more frequently as specified in national requirements. The test methods that can be used to verify the machine's filter efficiency are specified in EN 60335-2-69 Annex AA (AA22.201.2). If the test fails it should be repeated with a new essential filter.

Replacing HEPA Filters Process.

Remove the Head assembly and place in a safe area.

Unscrew the 4, M5 x 10 screws on the underside of the machine head which will expose the HEPA filter. Remove the contaminated HEPA filter and place in a suitably impervious plastic bag and dispose of in accordance with current regulations.

Replace the HEPA filter with an identical approved part

Re-assemble the machine in reverse order. (Screw torque 2.5Nm).

During this process please look carefully at all seals between mating parts and check for any damage.





















If seals have been damaged, please contact the machine manufacturer to obtain an approved replacement part.

DATA

| Model | Rated Motor Power (W) | Max Airflow (Motor Only) (m ³ /h) | Max Airflow (In Product) (m ³ /h) | Max Under-pressure (hpa) | Max Sealed Suction (mm) | Capacity (L) | Weight (kg) | Size (mm) |
|---------|-----------------------|--|--|--------------------------|-------------------------|--------------|-------------|-------------|
| HZ 190 | 1000 | 173 | 119 | 260 | 2500 | 8 | 10 | 340x340x400 |
| HZ 200 | 1000 | 173 | 119 | 260 | 2500 | 9 | 11 | 355x355x520 |
| HZ 250 | 1000 | 173 | 119 | 260 | 2500 | 8 | 13 | 340x340x455 |
| HZ 350 | 1000 | 173 | 119 | 260 | 2500 | 14 | 15 | 385x365x845 |
| HZ 370 | 1000 | 173 | 119 | 260 | 2500 | 15 | 11 | 355x355x570 |
| HZ 450 | 1000 | 173 | 119 | 260 | 2500 | 20 | 26.5 | 510x500x940 |
| HZ 570 | 1000 | 173 | 119 | 260 | 2500 | 23 | 18 | 415x415x746 |
| HZ 750 | 1000 | 173 | 119 | 260 | 2500 | 35 | 23 | 510x510x960 |
| HZ 900 | 1000 | 173 | 119 | 260 | 2500 | 40 | 28 | 490x800x880 |
| HZD 450 | 1000 x 2 | 346 | 184 | 245 | 2500 | 20 | 29.5 | 510x500x940 |
| HZD 570 | 1000 x 2 | 346 | 184 | 245 | 2500 | 23 | 20 | 415x415x746 |
| HZD 750 | 1000 x 2 | 346 | 184 | 245 | 2500 | 35 | 25 | 510x510x960 |
| HZD 900 | 1000 x 2 | 346 | 184 | 245 | 2500 | 40 | 30 | 490x800x880 |

Cleaning Range = 26.8m

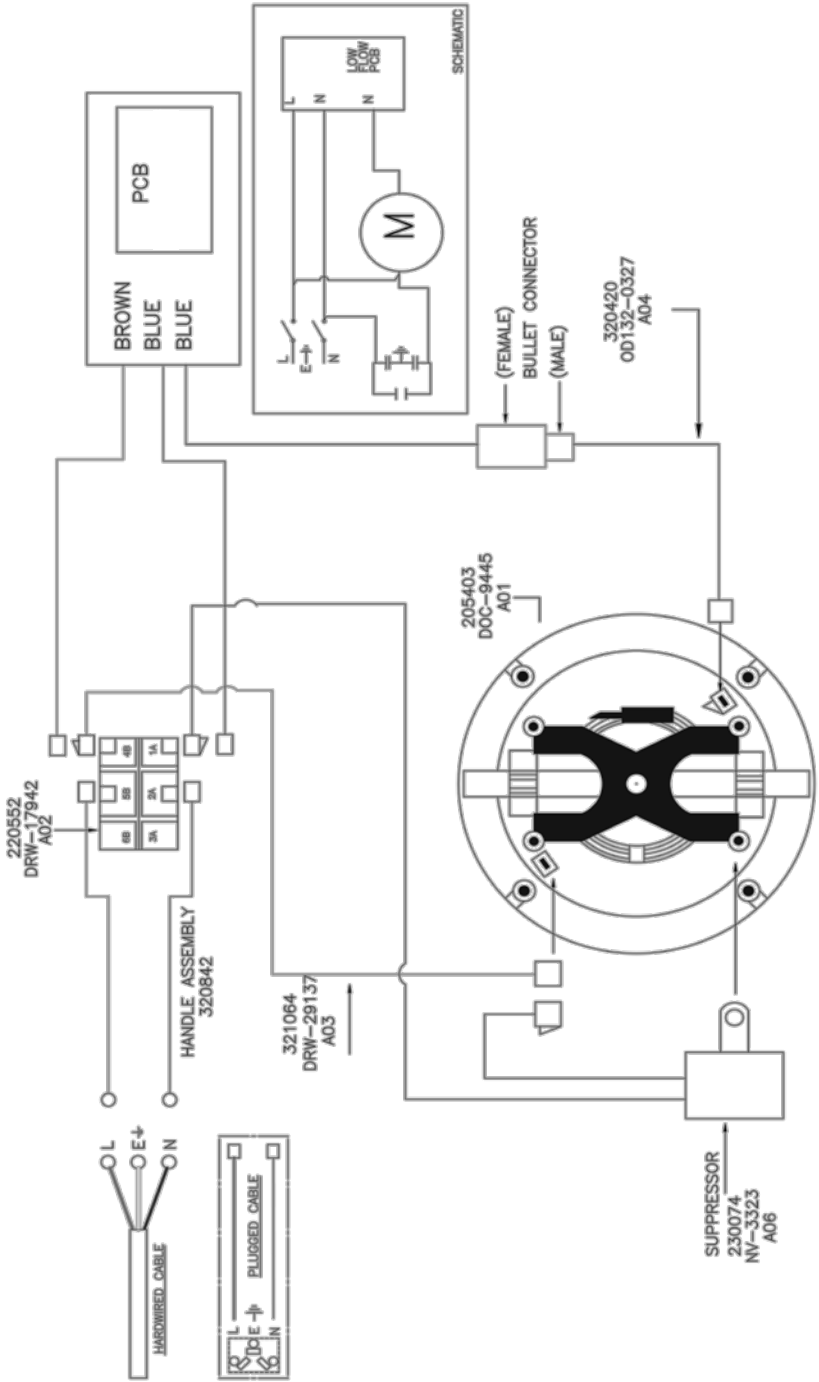
Numatic replacement spare parts

| | | | |
|---|---|---|---|
| 908229 Roll of 10 bags |  | 601144 65mm Soft Brush (NVA-44B) |  |
| 602102 2.4M Hose (NVB-2B) |  | 602159 38/32mm Adaptor (NVB-59B) |  |
| 602160 305mm Crevice tool (NVM-60B) |  | 604165 TriTex 12" Filter |  |
| 602161 152mm Rubber Brush (NVM-61B) |  | 604113 PermaTex 14" Filter |  |
| 602923 305mm Stainless gulper (NVM-23B) |  | 604311 MicroTex 12" Filter |  |
| 901647 - Bottom filter for HZ machines |  | 604411 MicroTex 14" Filter |  |
| 901652 - filter for all HZD machines |  | 604151 Air Separator |  |
| 604015 NVM-1CH HepaFlo Bags Pack of 10 |  | 604017 NVM-3BH HepaFlo Bags Pack of 10 |  |
| 604016 NVM-2BH HepaFlo Bags Pack of 10 |  | 604019 NVM-4BH HepaFlo Bags Pack of 10 |  |
| 604027 NVM-3BM MicroFlo Bags Pack of 5 |  | 604024 NVM-4BM MicroFlo Bags Pack of 5 |  |

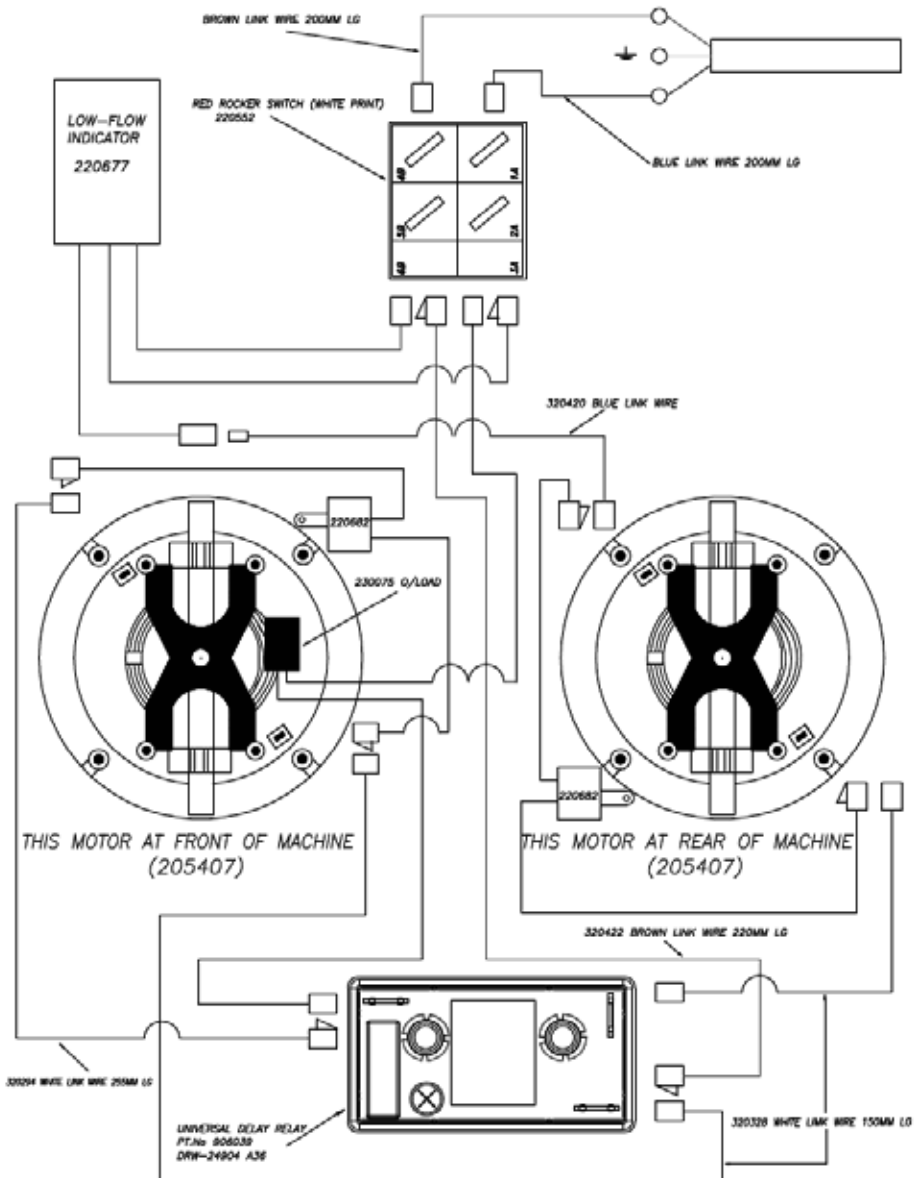
All machines to be retested after fitting replacement filter cartridge.

| Spare Parts | | | |
|-------------|---|--------|---|
| Drum | | | |
| 500895 | HZ 190 YELLOW DRUM ASSEMBLY | | |
| 500656 | HZ 200 YELLOW DRUM ASSEMBLY | | |
| 500024 | HZ 250 YELLOW DRUM ASSEMBLY | | |
| 500018 | HZ 350 YELLOW DRUM ASSEMBLY | | |
| 500031 | HZ/HZD 450 YELLOW DRUM ASSEMBLY | | |
| 500570 | HZ/HZD 570 YELLOW DRUM ASSEMBLY | | |
| 500412 | HZ/HZD 900 YELLOW DRUM ASSEMBLY | | |
| Interceptor | | | |
| 604126 | HZ 250/350 YELLOW INTERCEPTOR ASSEMBLY | | |
| 604127 | HZ 4/750 YELLOW INTERCEPTOR ASSEMBLY | | |
| 604128 | HZD 4/750 YELLOW INTERCEPTOR ASSEMBLY | | |
| Chassis | | | |
| 501109 | HZ 350 MILD STEEL CHASSIS ASSEMBLY | | |
| 501016 | HZ 450 HEAVY DUTY FIXED MILD STEEL CHASSIS ASSEMBLY | | |
| 501017 | HZ 750/1000 HEAVY DUTY FIXED MILD STEEL CHASSIS ASSEMBLY | | |
| Cables | | | |
| Simplex | | Duplex | |
| 236010 | 10.0m X 1 mm ² X 3 CORE CABLE (SOCKET + PLUG) UK | 236011 | 10.0m X 1.5 mm ² X 3 CORE CABLE (SOCKET + PLUG) UK |
| 236014 | 10.0m X 1 mm ² X 3 CORE CABLE (SOCKET + PLUG) EURO | 236081 | 15.0m X 1.5 mm ² X 3 CORE CABLE (SOCKET + PLUG) SOUTH AFRICA |
| 236050 | 10.0m X 1.5 mm ² X 3 CORE CABLE PLUS 16AMP INDUSTRIAL PLUG | 236143 | 10.0m X 1.5 mm ² X 3 CORE YELLOW CABLE (SOCKET + PLUG) EURO |
| 236058 | 10.0m X 1 mm ² X 3 CORE BLACK CABLE PLUS AUSTRALIAN PLUG | 220911 | 12.5m X 2.5 mm ² X 3 CORE CABLE PLUS 32 AMP INDUSTRIAL PLUG |

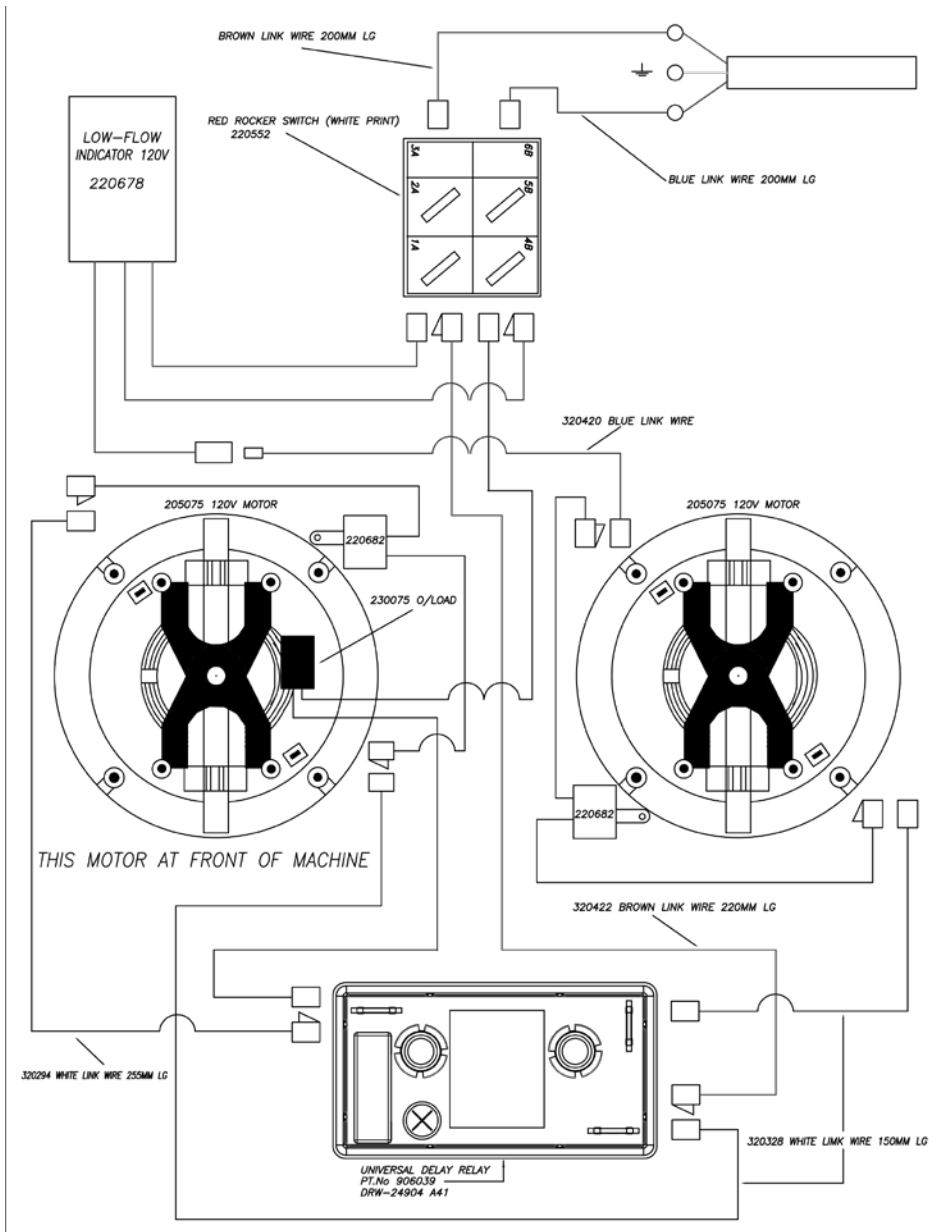
HZ 12 & 14 inch Simplex WD-0235 (A04)



14 inch Metal 3 core WD-0229 (A05)



14 inch Metal 3 core (120 V) WD-0264 (A03)



Numatic International Warranty

Numatic International Limited warrant to the original purchaser that its products are free of defects in both material or workmanship for the period shown below:-

| | |
|--|---------------------|
| Homecare and Cleancare Vacuum cleaners..... | 2 Years |
| Rotary Floor Machines..... | 2 Years |
| Twintec Auto Scrubber Dryer..... | 1 Year |
| Vario Ride-On Scrubber Dryer..... | 1 Year / 1500 hours |
| Mopping, Compacts, Combi and Servocare Products..... | 1 Year |
| Individual Accessories and Spare Parts..... | 6 Months |

Note: This warranty expressly excludes consumable parts such as carbon brushes, floor brushes, mops, batteries etc, that are considered replaceable from time to time during the normal working life of the machine.

Using non Numatic dustbags can be detrimental to both machine performance and life and may invalidate the Warranty.

A. The warranty period commences from the date the goods are purchased.

B. All warranty claims must be processed through the Dealer from whom the equipment was purchased. The Dealer will co-operate with the purchaser throughout the warranty claims procedure and will arrange any necessary repairs using genuine Numatic parts.

C. If the original Dealer is no longer able to fulfil his obligations please contact Numatic International Limited with full details of the claim and proof of purchase so that this may be processed without delay.

D. Any warranty claim can only relate to the specific part that is proven to be at fault and for which a replacement will be supplied but cannot be extended to constitute a claim against the complete machine.

E. Numatic International will supply the Dealer with any warranty parts required, subject to the claim being validated, after return of the faulty items in accordance with Numatic International Limited's General Conditions of Sale.

F. Claims will not be accepted if they are the result of fair wear and tear, misuse or abuse of any kind.

G. No replacement will be given unless the appropriate evidence of the validity of the claim has been provided to the satisfaction of Numatic International Limited.

H. Numatic International Limited reserve the right to charge for any unnecessary work carried out as a result of an invalid claim.

I. No variation to this warranty may be made or implied by any member of Numatic International Limited or its Dealers unless such variation is in writing and authorised by the Company



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