

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)



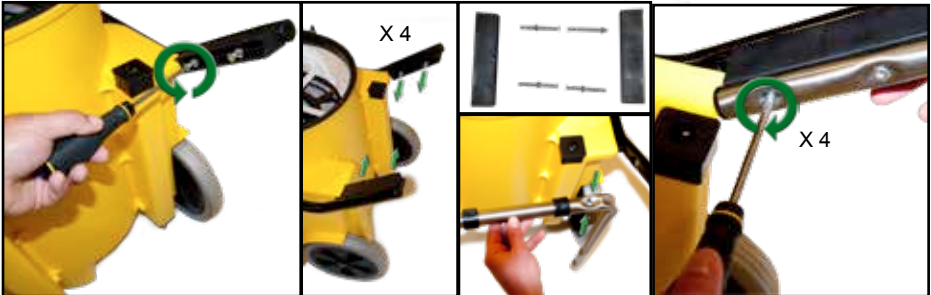
902244 AA20 (750, 900 Type)

Handle Assembly, 350, 450, 750

HZ 350
HZ 450
HZ 750
HZD 450
HZD 750



Handle Assembly, 900



Fitting the bag



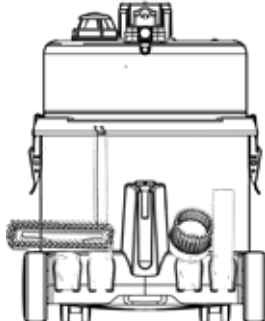
Fitting the hose, Fitting the air separator



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:-



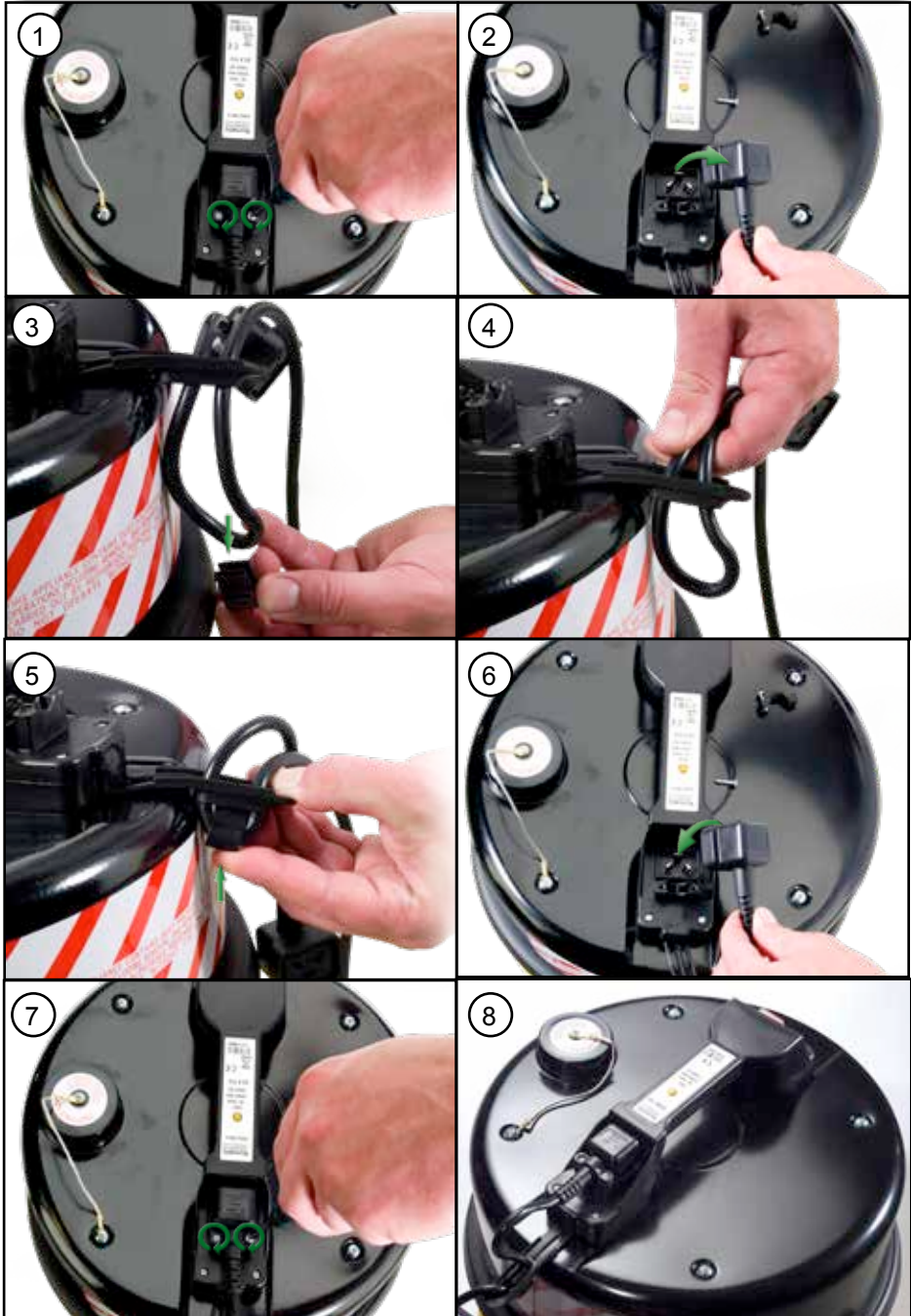
Cause	Solution
Dust caps still fitted	Remove the caps.
Blocked hose	Unblock the hose.
Bag full	Remove and replace
Cloth filter clogged	Remove and replace, clean dirty filter by vacuuming.
Hepa cartridge clogged	Replace, seek advice from an instructed person or manufacturer.

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.



About the machine



Rating Label

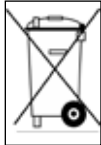
Numatic International Ltd. CHARD, ENGLAND, TA2099B	← Company Name & Address
XXXX	← Machine Description
●	
XXXv - XXXv XXHz/XXHz	← Voltage / Frequency
XXXX W	← Power Rating
IP XX	← IP Rating
XXX Kg	← Weight
Type H	← Type Hazardous
 	← CE Logo ← WEEE Logo
 094300118	← Machine Yr/Wk/Serial Number

Vacuum cleaner, accessories and packaging should be sorted for environmental-friendly recycling.

Only for EU countries:
Do not dispose of Vacuum cleaner into household waste!

According to the European Directive 2002/96/EC 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 environmental-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.

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 also suitable for commercial use, for example in hotels, schools, hospitals, factories, shops, rental businesses and offices for other than normal housekeeping purposes.
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).*
- *Unreel the cable with one pull or 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 pre-set 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-4B) to become so full as to reduce the effective pick-up of the vacuum. (Lamp will illuminate at pre-set air velocity levels).
5. Only use the dust collection bag (NVM-4B) 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.

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.

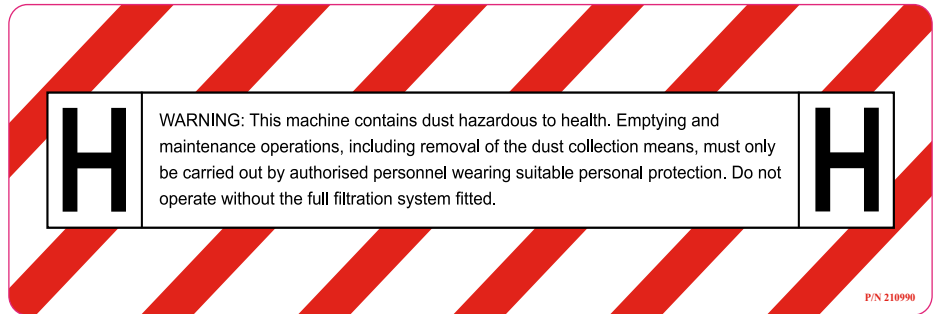
Do not allow the mains lead to come in contact with rotating brushes.

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.



*Note**

Your machine exhaust can be used as a blower, simply remove the air diffuser and replace with the hose on to the exhaust port.

The blower function is not intended for blowing away deposited dust.

Nominal Over pressure: 100 mbar (hPa)

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 (Upper two toggle clamps have split pins that should not be removed by un-authorised personnel).

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, plus Interceptor assembly, re-applying the two Toggle clamps.

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 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 (22.AA.201.2). If the test fails it should be repeated with a new essential filter.

Replacing HEPA filters process:

Unclip the top two toggle clamps, removing the security split pins in advance.

Remove the Head assembly and place in a safe area. Unclip the lower two toggle clamps and remove the Interceptor assembly from the drum assembly, and place the Interceptor on a good level working surface.

Unscrew the 6, M5 x 10 screws on the underside of the Interceptor assembly 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 (ensure plastic filter grid that locates into the hole in the metalwork is not thrown away with HEPA filter).

Re-assemble the Interceptor assembly in reverse order. If the seal between the upper and lower metal parts of the Interceptor assembly is damaged, replace with a manufacturer approved seal material (there must be NO gap in the circular seal).

Re-assemble the machine in reverse order (Screw torque 2.5Nm). Ensure new split pins are fitted and legs opened.

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) (m3/h)	Max Airflow (In Product) (m3/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

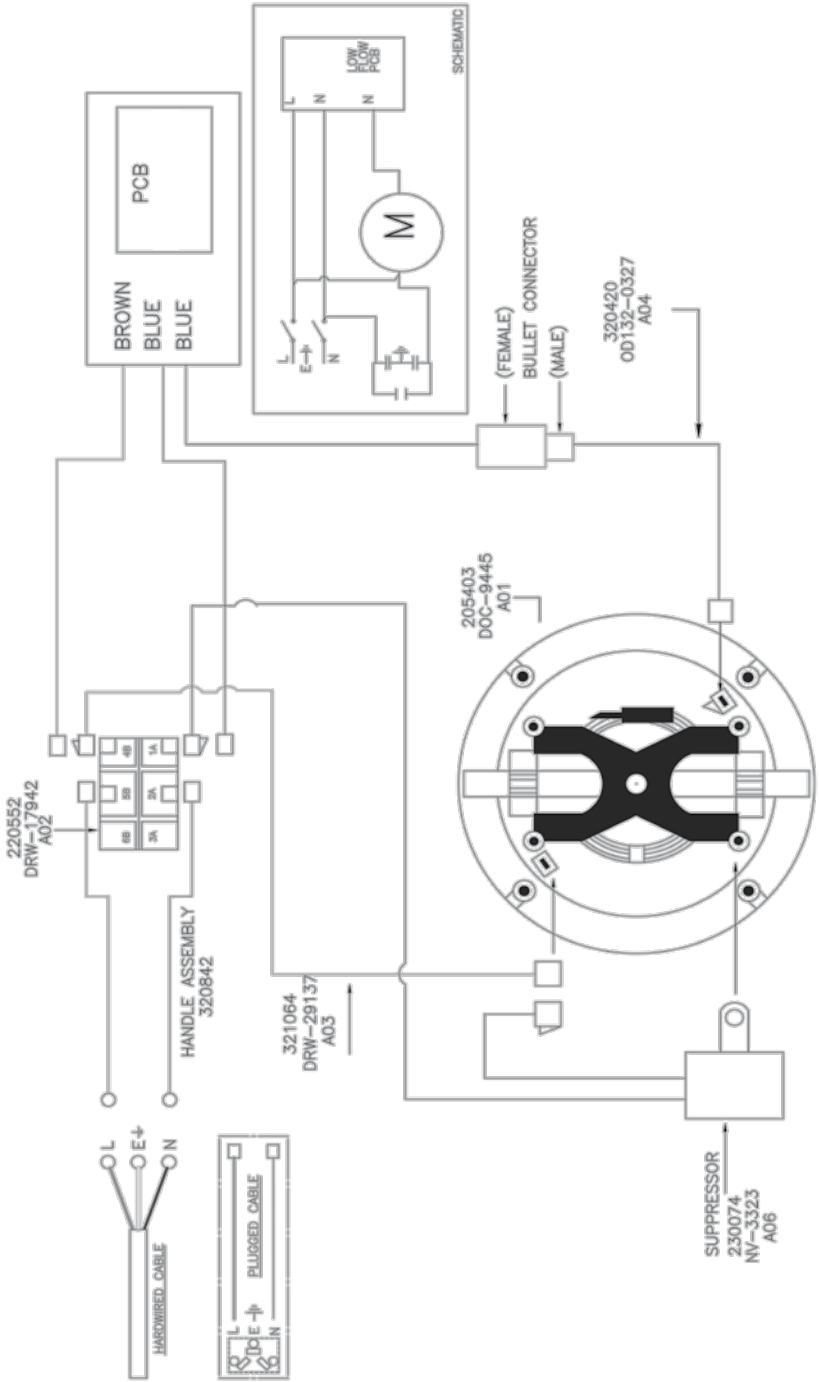
Numatic replacement spare parts

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	

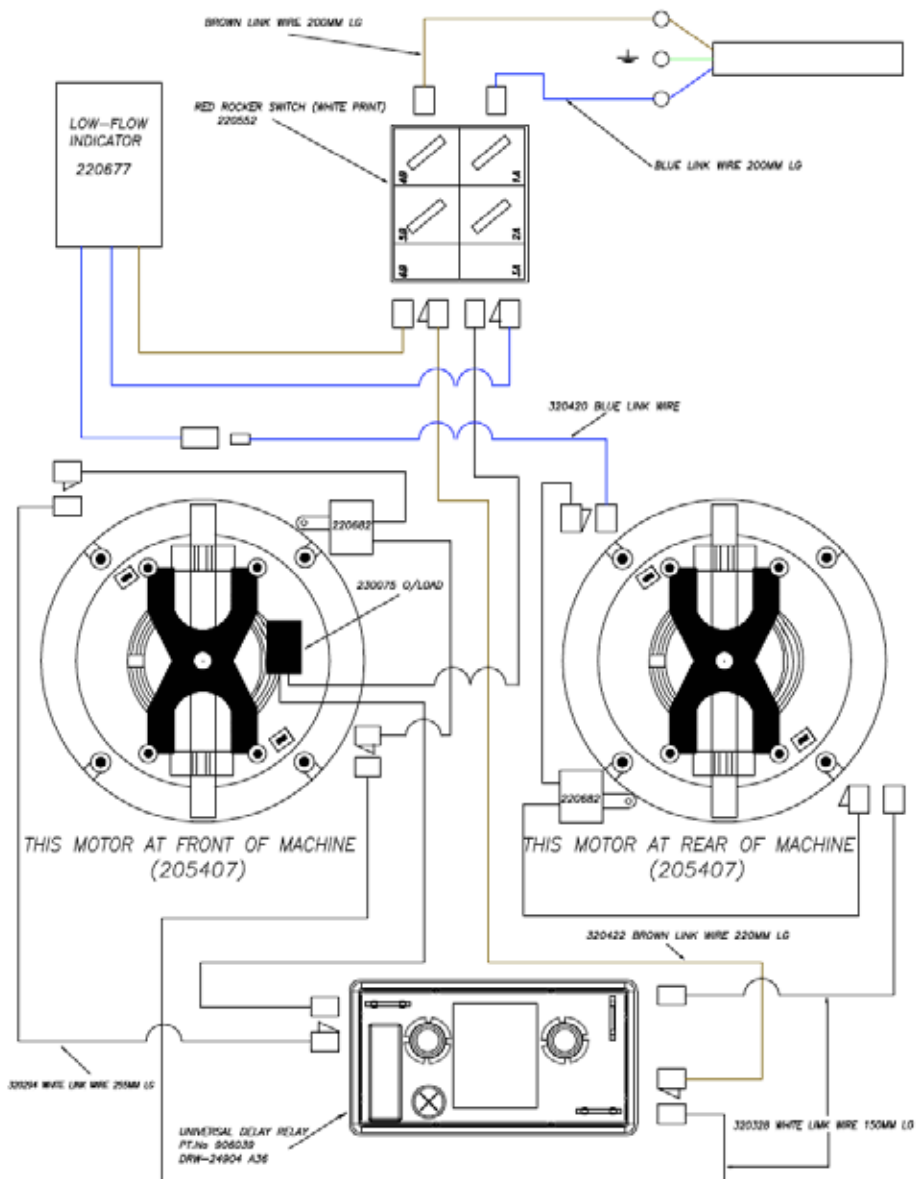
All machines to be retested after fitting replacement filter cartridge.

<i>Spare Parts</i>			
<i>Drum</i>			
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		
<i>Interceptor</i>			
604126	HZ 250/350 YELLOW INTERCEPTOR ASSEMBLY		
604127	HZ 4/750 YELLOW INTERCEPTOR ASSEMBLY		
604128	HZD 4/750 YELLOW INTERCEPTOR ASSEMBLY		
<i>Chassis</i>			
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		
<i>Cables</i>			
<i>Simplex</i>		<i>Duplex</i>	
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 I 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

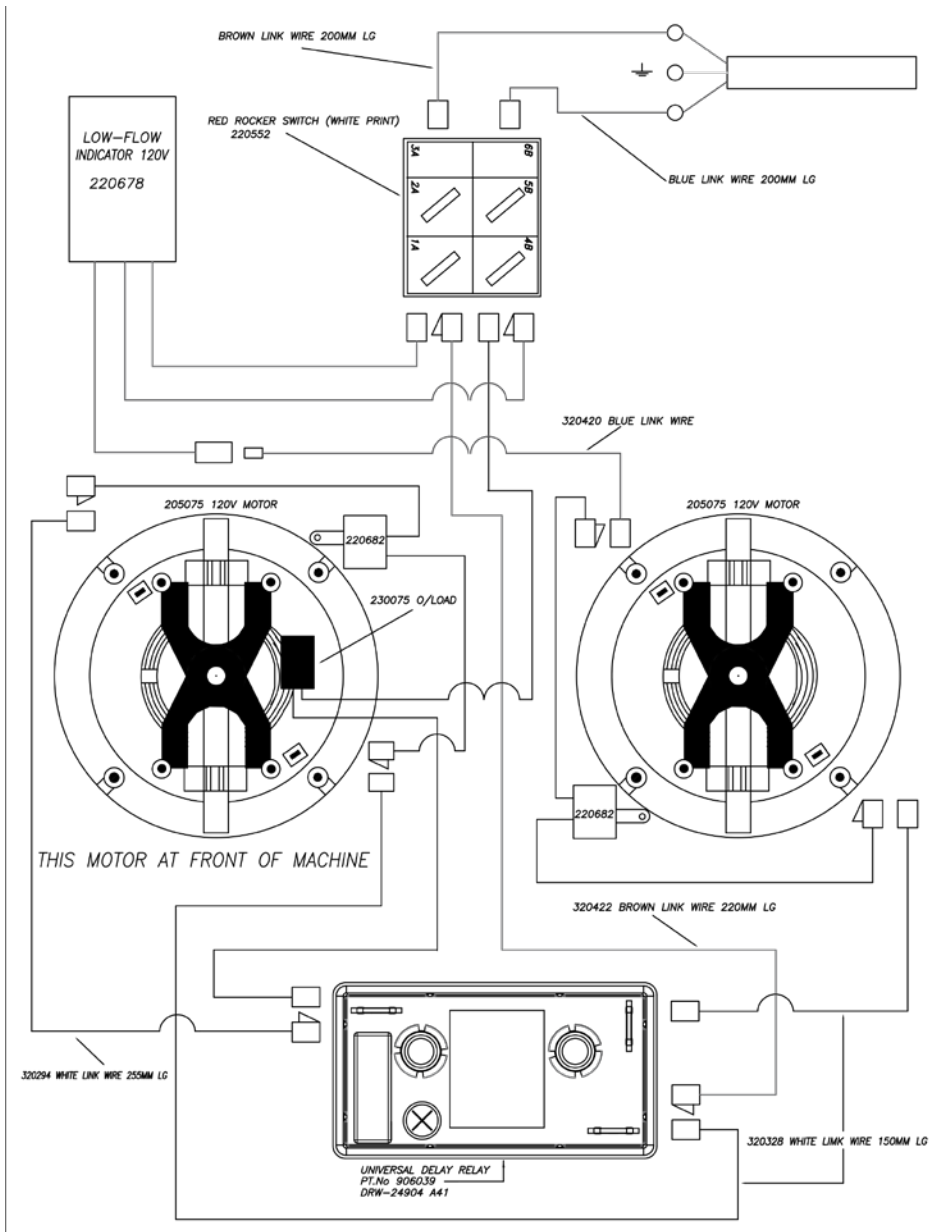
HZ 12 & 14 inch Simplex WD-0235 (A04)



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*



Numatic International Limited, Chard, Somerset, TA20 2GB
Telephone: 01460 68600 Fax: 01460 68458

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EU DECLARATION OF CONFORMITY

We hereby declare under our sole responsibility that the following equipment fulfils all the relevant provisions of the following EU Directives

Machinery Directive 2006/42/EC
EMC Directive 2014/30/EU
RoHS Directive 2011/65/EU

Machine Description: Vacuum Cleaner
Machine Type: HZ, HZD, HZC Series.

Relevant standards upon which conformity is declared include:

EN 60335-1: 2012 + A11:2014
EN 60335-2-69: 2012
EN 55014-1: 2006 + A1:2009 + A2:2011
EN 55014-2: 1997 +A1:2001 + A2:2008
EN 62233: 2008

A technical construction file for this equipment is retained at the manufacturer's address under the authorisation of the following signatory:

Name: Allyn Boyes

Position: Development Manager

Signed

Date

2/10/18



Numatic International Ltd
Chard Somerset
TA20 2GB
www.numatic.co.uk

GB



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

Distributor

Affix Label Here



Numatic International Limited, Chard, Somerset, TA20 2GB, ENGLAND.

Telephone 01460 68600 Fax: 01460 68458

www.numatic.co.uk

Specification subject to change without prior notice.

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