

IMPORTANT USER GUIDANCE - TYPE-H & HML SERIES VACUUM CLEANERS

READ THESE INSTRUCTIONS BEFORE USING THE APPLIANCE

WARNING: As with all electrical equipment, care and attention must be exercised at all times during use, in addition to ensuring that routine preventative maintenance is carried out to ensure continued safe operation. Failure to carry out routine maintenance, in particular the replacement of vacuum bags of the correct standard, could render this equipment unsafe and the supplier can accept no responsibility in this respect.

CAUTION: This equipment utilizes a HEPA Micro filter module to collect very small particles of dust, including dust hazardous to health. Emptying and maintenance operations, including removal of the dust collection bag and filters, must only be carried out by personnel wearing personal protective equipment (including respiratory protective equipment) appropriate to the dust hazard, and employing methods to prevent spread of dust. Do not operate the equipment without the full filtration system fitted.

Do not use this equipment for the collection of explosive dusts or biological agents; do not use in a flammable or explosive atmosphere. This machine is for dry use only and must not be used or stored in wet conditions.

DO:

- Take care when handling vacuum bags or filters especially if handling dusts dangerous to health.
- Wear suitable protection (PPE / RPE).
- Take precautions to prevent spread of dust.
- Take care when disposing of waste material.
- Ask if you need advice.
- Keep the machine clean.
- Keep vacuum hoses and tubes clear.
- Regularly examine the power cable for damage.
- **ALWAYS** advise the supplier (in advance) if you are unable to empty the equipment and are returning it containing waste.

DO NOT:

- Use steam cleaners or pressure washers to clean the machine.
- Immerse in water for cleaning.
- Attempt routine maintenance or cleaning unless first disconnected from power supply.
- Attempt to repair the machine if it is faulty – return to the supplier.
- Use the machine to suck up water or liquid of any description.
- Use the machine to suck up hot ashes, or lighted cigarette ends.
- Run the machine over the power cable during operation.

THE FOLLOWING MUST BE OBSERVED AT ALL TIMES

USERS MUST:

- refer to local safety regulations applicable to the materials being collected by the vacuum machine [for example, in the U.K. if collecting dust containing lead observe the requirements of the Control of Lead at Work Regulations and supporting guidance L132; if collecting dust containing asbestos observe the requirements of the Control of Asbestos Regulations 2012, its supporting guidance ACoP L143 Managing and Working with Asbestos, and the HSE's Equipment and Method task sheet EM4: Using a Type-H Vacuum Cleaner for Asbestos].
- familiarise themselves with instruction and information (and where appropriate undertake training) concerning use of the appliance, the substances for which it is to be used, including the safe method of removal and disposal of the material collected.
- make arrangements to ensure that the vacuum bag can be changed and the fabric filter handled without causing risk to operatives or others; precautions include the use of containment facilities, PPE / RPE, and filtered local exhaust ventilation. **IMPORTANT: If you are not able to achieve this the vacuum must not be opened.**
- before removing from a contaminated / hazardous area ensure the outside of the appliance is decontaminated by vacuum cleaning methods, the dust cap secured, and the machine wiped completely clean. Precautions to prevent accidental dust dispersal include placing the equipment within a clear polythene bag prior to return.



- remove all waste material from the equipment prior to its return to the supplier (it must be disposed of in accordance with national regulations appropriate to the material collected) OR if you are unable to achieve this you must inform the supplier in writing prior to returning the equipment.
- Accessories such as flexible hoses, brushes, tools etc. should be considered contaminated after first use, and should be sealed in polythene bags between each subsequent use; they cannot be returned to the supplier. When ultimately finished with these accessories should be disposed of in accordance with the regulations for the waste material you are handling.

OPERATION:

Connect the vacuum to a 110v power supply sufficient for the model being used (see technical information below); if using extension cables these should not exceed 30m (approx. 100 feet) in length, and must be of at least 2.5mm² conductor cross section.

An On/Off switch is fitted to the vacuum handle. Switch the vacuum on, then immediately remove the inlet dust cap, and connect a vacuum hose; a variety of hose lengths and accessories are available to aid cleaning – ask your supplier. Never continue to operate the vacuum cleaner when the suction hose is obstructed or the “low-flow” warning lamp (see below) is flashing; you may cause the motor to overheat or suffer damage.



If the vacuum bag requires replacement this should be undertaken by a competent person utilising original Numatic parts, PPE, and containment measures appropriate to the dust hazard to prevent exposure to, and spread of, dust when changing the bag; do not attempt to change the bag unless you can satisfy this requirement. Bag change process: disconnect the vacuum hose, fit the dust cap, switch off the vacuum, un-clip the lower

toggle clamps, remove the power head with microfilter module still attached, remove the cloth filter, remove the dust bag from inside the drum and seal in an impervious plastic bag – for disposal in accordance with national regulations applicable to the waste material. Fit new dust bag to inlet flange inside the drum, re-fit cloth filter and the power head with microfilter module, secure the toggle clamps.

When you have finished using the machine vacuum it clean, disconnect the vac hose, replace the dust cap on the inlet, then immediately switch the vacuum off; disconnect the vacuum from the power supply, and wipe the machine completely clean before sealing it in a clear impervious plastic bag for return to the supplier. Vacuum hose and accessories should be sealed in a separate plastic bag.

LOW FLOW INDICATOR:

The vacuum cleaner is fitted with a low-flow warning indicator; this is a light fitted within the handle of the vacuum cleaner which will flash when the air-flow is too low. If the light flashes check the following:



CAUSE

- Dust cap not removed ?
- Is the hose blocked ?
- Is the vacuum bag full ?
- Is the fabric filter clogged ?
- Is the HEPA microfilter blocked ?

SOLUTION

- Remove Cap
- Unblock Hose
- Remove full bag & replace with a new one] subject to appropriate
- Vacuum off fabric filter or replace with new] control measures.
- Return vacuum to supplier

VACUUM CLEANER TECHNICAL INFORMATION:

VARIANT:	SIMPLEX (SINGLE MOTOR)	DUPLEX (TWIN MOTOR)
MODEL:	HZ 250 / 350	HZD 450 / 750, HML 570D
FREQUENCY:	50Hz	50Hz
CURRENT DRAW (CLEAN):	8A @ 110v	15.5A @ 110v
SOUND PRESSURE:	68 – 72 dB(A) +/- 0.2 dB(A)	72 - 78D dB(A) +/- 0.2 dB(A)
MAXIMUM SUCTION:	2500mm w.g. (248hPa)	2500mm w.g. (248hPa)
NORMAL AIRFLOW (CLEAN):	42L/sec (151m3/hr)	84L/sec (302m3/hr)
LOW FLOW WARNING @	16L/sec (0.96m3/min)	22L/sec (1.32m3/min)

FOR MORE INFORMATION ABOUT OUR RANGE OF HIRE EQUIPMENT PLEASE SEE OUR WEBSITE www.envirogard.co.uk

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