ORIGINAL INSTRUCTIONS

CAUTION - READ THESE INSTRUCTIONS BEFORE USING THE MACHINE

User instructions

Hydromist 55/100 & 55/400

Carpet Soil Extraction Machines





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1 Product Information

The Hydromist range of carpet soil extraction machines are designed for the efficient cleaning of carpets and upholstery.

We recommend that any user not familiar with carpet cleaning should read these user instructions fully before using the machine. If you have any queries please contact the supplier who you purchased the machine from or Truvox International on the contact details provided at the back.

These machines must only be used for the manufacturer's approved application. **Do not use** the machine where it is suspected that the carpet, floor or upholstery contains health endangering dust or debris such as asbestos or chemical waste. If this is suspected **do not proceed**, contact your supervisor, supplier or Truvox International for advice.

The following instructions contain important information about the machine and safety advice for the operator.

Equipment must be operated, serviced and maintained in accordance with the manufacturer's instructions. If in doubt contact the supplier of your machine.

These instructions are valid for the following models:

Hydromist 55/100 & Hydromist 55/400

1.1 Important Safety Advice

When using electrical equipment basic safety precautions should be followed including the following.

- Read all instructions carefully before use.
- This appliance is suitable for commercial use, for example in hotels, schools, hospitals, factories, shops, offices, rental businesses and other than normal housekeeping purposes.
- This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by a person responsible for their safety.
- Keep children and unauthorised persons away from the machine when in use.
- Before using the appliance, check that the mains power voltage corresponds with the voltage shown on the rating plate.
- All parts are to be positioned as indicated in the instructions before using the machine.

- Do not operate the machine if it malfunctions or is damaged in any way. Contact an authorised service agent for repair or adjustment.
- Do not operate switches or touch the mains plug with wet hands as this may cause electric shock.
- When unplugging pull the plug, not the supply cord.
- Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull around sharp edges or corners.
- Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts.
- Keep cord away from heated surfaces.
- Do not use where hazardous dust is present.
- Do not use in an explosive atmosphere.
- Do not pick up oil or other flammable material.
- Do not use to pick up moisture or any liquids.
- Do not leave the machine connected to the electricity supply when not in use, always remove the plug from the socket-outlet.
- Switch off the machine before removing the plug.
- Keep the power supply cord clear of moving parts. During operation hazard may occur when running the machine over the power supply cord.
- The power supply cord must be regularly inspected for signs of damage. If the power supply cord is damaged, it shall only be replaced by the manufacturer, its service agent or a similar qualified person in order to avoid a hazard.
- Only replace the supply cord with the type specified in the instruction manual.
- Do not operate the machine with a damaged supply cord or plug, or after the machine malfunctions or is damaged in any way. Contact an authorised Service Agent for repair or adjustment.
- The plug of the power supply cord must be removed from the socket-outlet before commencing cleaning of the machine or undertaking maintenance operations.
- Do not kink or twist the power cord.
- Take care when using a machine near the top of stairs to avoid overbalancing.

1.2 Guidelines for the operator

WARNING

Operators must be fully trained in the use of the machine in accordance with these instructions, able to perform user maintenance and the correct selection of accessories.

- Operators should be physically capable to manoeuvre, transport and operate the machine.
- Operators should be able to recognise unusual operation of the machine and report any problems.

- Only use the machine on firm level surfaces.
- Wear suitable footwear to avoid slipping.
- · Wear suitable clothing to keep dry and warm.
- Where possible implement job rotation and adequate rest periods to avoid continuous use of the same muscles.
- Do not leave machine running unattended
- Do not smoke when using the machine.
- Do not put any objects into openings. Do not use with any opening blocked: keep free of dust, debris, hair, or anything that may reduce air flow.



CAUTION - This machine is for indoor use only and should not be used or stored outdoors or in wet conditions.



CAUTION - If it is suspected that there is hazardous dust or flammable materials stop cleaning the area immediately and consult your superior.



WARNING Only use accessories and spare parts provided with the machine or those approved by the manufacturer. The use of other accessories may impair the safety of the machine.



WARNING – Should water emit from the machine exhaust switch off immediately and refer to instructions for Using the Machine

• Ensure the machine is switched off before adding or changing accessories.

1.3 Transporting the machine



CAUTION – Incorrect lifting techniques may result in personal injury, where applicable do not lift large and heavy

machines without assistance. We advise that the manual handling regulations are followed.

Please refer to the technical table for details on weight of machine.

When transporting the machine ensure that all components, tanks and removable parts are securely fastened, and that the supply cord and plug are not trailing. Detach hose and wand from machine where applicable.

Do not lift or transport the machine whilst containing liquid as this will add considerably to the weight.

Take extreme care when moving the machine up or down steps or stairs.

1.4 Electrical connection

Before connecting the machine to the power supply, check that your supply voltage corresponds with that marked on the rating label.

The power supply cord plus any extension leads should not exceed 30m in total, otherwise you may experience problems starting up the machine. The cross-section of any extension cable wiring must be at least 2,5 mm².

Should an extension cord be used, ensure cord rating is adequate for the equipment. Do not use extension cord in coiled condition as this could result in overheating of the cord.

UK only

The supply cord for 230v models is fitted with a plug containing a 13 amp fuse. Should the fuse require replacement it must only be replaced by a 13 amp fuse conforming to BS1362, and the fuse cover must be refitted. If the fuse cover is lost the plug must not be used until the correct replacement cover is fitted.

IMPORTANT - If the supply cord is damaged, it must only be replaced by a special cord available from the manufacturer or an authorised service agent.

WARNING - THIS APPLIANCE MUST BE EARTHED

1.5 Symbols & Markings



WARNING



Earth symbol

2 Controls



- 1 Vacuum
- 2 Vacuum
- 3 Pump
- 4 Heater (Hydromist 55/400 model only)

3 Preparing the machine

WARNING - Before undertaking assembly or changing of accessories/tools switch off machine and unplug from the electricity supply.

 Fill the fresh water solution tank with water and approved carpet cleaning chemical to a maximum of 30 litres (Fig 1). When inserting the power cord ensure that it is quarter turned clockwise to ensure it is locked in place.

NOTE: Ensure chemical is diluted correctly according to instructions on container.



Fig 1

4 Operation

4.1 Priming and starting the machine Hydromist 55/100

- Connect the solution and vacuum hoses to the machine and the other end to either the carpet or upholstery wand / tool.
- Switch on the pump and one by one the vacuum switches to begin operation.

Hydromist 55/400

- Connect the priming hose into the solution outlet and the other end into the solution tank.
- Switch on the heater (if required) and pump on to circulate the solution to remove air from system. Let the heater heat up for approximately 3 to 5 minutes.

Warm water can be used to aid cleaning however this can increase the risk of colour fastness and carpets to shrink. NOTE: When the heater is on, the orange indicator light on the switch panel will be lit.

- Remove the prime hose and connect the vacuum and solution hose to the machine and the other end to either the carpet or upholstery tool.
- Adjust the pressure gauge to the required level.
- Switch the vacuum switches on one by one to begin cleaning.

NOTE: use only one vacuum for more delicate fabrics and upholstery.

4.2 Using the machine

- Using the wand drag the head slowly over the carpet whilst at the same time squeezing the solution lever thus releasing the spray. Repeat using overlapping strokes. There is no need to apply downward pressure to the wand as no improvement in performance is obtained.
- For best results, clean an area approx.
 1 metre x 1 metre as above, and then go over the same area with only the vacuum running, and not releasing any solution.
 Proceed to the next area.
- The machine should be switched off periodically to check there is no excess foam in the recovery tank. If foam is present, either add defoamer or if using an all in one product, empty the recovery tank, rinse out and continue, checking regularly for foam build up.
- When solution spray ceases the solution tank is empty. Switch off the machine, empty the recovery tank and refill the solution tank.

IMPORTANT – Ensure recovery tank is emptied whenever solution tank is filled.

IMPORTANT – Do not run the pump motor when the solution tank is empty, as this will damage the motor.

IMPORTANT – Should solution seep from the drain hose cap, stop work immediately and drain recovery tank.

4.3 Cleaning Carpet

Colour fastness - Before using cleaning solution or pre-spotter, test carpet for colour fastness on an inconspicuous area. Apply solution to a small piece of clean white material or tissue, and then rub on carpet vigorously. Excessive amounts of dye showing on the material indicate that the colours are not fast, and the carpet should not be wet cleaned. Please note temperature of cleaning solution will also affect colour fastness.

- Move furniture around to give a clear working area. Cover bottoms of furniture legs where necessary (aluminium cooking foil is ideal). Pin up curtains and drapes.
- Vacuum carpet thoroughly to remove any residual dust or debris.
- Areas of heavy carpet soiling can be removed more easily if first treated with a concentrated cleaning solution or pre-spotting solution.

- Rate of cleaning will depend upon the thickness of the carpet and the degree of dirt in the area being cleaned.
- Do not over wet carpets. Carpets may shrink if they are over-wet or not properly fixed down.

4.4 Cleaning Stairs

CAUTION – when cleaning on stairs exercise great care to ensure that the machine is stable and cannot overbalance, possibly causing injury to either operator or third party. Use the upholstery tool for cleaning in place of the wand assembly.

4.5 Cleaning Upholstery

This is done in the same way as carpet cleaning except using the upholstery tool in place of the wand assembly. Cleaning is achieved using a gentle dragging motion of the upholstery tool over the material.

- An inconspicuous area of the item to be cleaned should always be tested for colour fastness prior to cleaning. Should doubt exist as to the suitability of the fabric for wet cleaning, the chemical manufacturer should be consulted for advice.
- Loose cushions should be removed and cleaned separately.
- Do not over-wet upholstery.

5 When Cleaning is Finished

5.1 Draining and Cleaning

• When the recovery tank is full, empty by using the drain hose at the rear of machine (Fig 2). If a bucket is used to empty the recovery tank, do not use the same bucket to fill the solution tank as this can result in putting dirt and grit into the solution line that can block filters, orifices, and generally degrade the solution line system (do not reuse solution). Take care if using a bucket to empty the machine. Stop flow before bucket overflows. Empty bucket and repeat.



Fig 2

To empty solution tank, detach the wand from the end of the vacuum hose and insert the vacuum hose into the solution tank. Turn the vacuum switches to the "on" position and transfer solution to recovery tank and dispose of as outlined above. Clean recovery filter at this time.

5.2 Storage

- Always unplug, empty, wipe down and dry the machine after use.
- We recommend running the vacuum motor for approx. 2 minutes after use to eliminate condensation within the machine body, thus ensuring the motor and particularly the bearings remain dry.
- Store machine with recovery tank lid removed and dump valve open (Fig 3).
 Deodoriser may be left in the tank to prevent unpleasant odours.



Fig 3

 Wrap supply cord around handle ensuring that plug is not trailing on the floor. Store the machine in a dry indoor area only.

5.3 Maintenance

WARNING - Before undertaking maintenance operations or adjustments switch off machine and unplug from the electricity supply.

The machine requires minimum maintenance apart from the following checks by the operator.

- Supply cord Regularly inspect sheath, plug and cord anchorage for damage or loose connection.
- Solution tank Check filter is clean and undamaged. A damaged or missing filter must be replaced or damage to pump head and spray jet could occur.
- Vacuum head Check and remove any debris or lint build-up from the head.
- Spray jet Check jet for blockage and full spray pattern. Blow through jet to clean. Do not use a pin, as this could damage the jet.
- Lubricate brass quick disconnects and drain valves with a quality lubricant such as WD-40
- Flush solution systems after use with clear, clean water. (A white vinegar solution may also be used). This will counter-act hard water and alkaline deposits and aid in keeping orifices clean.

- Do not allow fluid either in solution or waste tank to sit overnight. The unit should be emptied and cleaned daily.
- Clean the filter in the solution tank, the filters on the vacuum stack in vacuum tank and all lint filters in the inlet or vacuum tanks daily.
- Do not use the same bucket to fill solution tank that is used to remove waste from recovery tank.
- When the unit is not in use, leave the recovery tank lid open.
- At the end of each day, run the vacuum for 2 minutes with lid open and filter off.

IMPORTANT – All other servicing and repairs should only be performed by a Truvox engineer or Authorised Service Agent.

IMPORTANT – Should the machine fail to operate please refer to the fault diagnosis section in the back of this instruction manual. If the problem / remedy is not listed please contact Truvox Customer Service Department for rapid attention.

6 After Sales Service

Truvox machines are high quality machines that have been tested for safety by authorised technicians. It is always apparent that after longer working periods, electrical and mechanical components will show signs of wear and tear or ageing.

Under extreme or specialised conditions and/or insufficient maintenance, shorter maintenance intervals are necessary. Use only original Truvox spare parts. Use of other spare parts will invalidate all warranty and liability claims.

Should you require after sales service please contact the supplier from whom you purchased the machine, who will arrange service. Repairs and servicing of Truvox products should only be performed by trained staff. Improper repairs can cause considerable dangers to the user.

7 Guarantee

Your product is guaranteed for **one** year from the date of original purchase, or hire purchase, against defects in materials or workmanship during manufacture. Within the guarantee period we undertake at our discretion, to repair or replace free of charge to the purchaser, any part found to be defective, subject to the following conditions.

CONDITIONS

- Claims made under the terms of the guarantee must be supported by the original invoice/bill of sale issued at the time of sale, or the machine Serial Number.
- For claims under this guarantee contact the supplier from whom you purchased the product who will arrange the appropriate action. Do not initially return the product as this could result in transit damage.
- 3. Neither Truvox nor its distributors shall be liable for any incidental or consequential loss.
- 4. This guarantee is governed by the laws of England.
- 5. This guarantee does not cover any of the following:
 - Periodic maintenance, and repair or replacement of parts due to normal wear and tear.
 - Damage caused by accident, misuse or neglect, or the fitting of other than genuine Truvox parts.
 - Defects in other than genuine Truvox parts, or repairs, modifications or adjustments performed by other than a Truvox service engineer or authorised service agent.
- Costs and risks of transport relating directly or indirectly to the guarantee of this product.
- Consumable items and wear parts such as drive belts and filters.

This guarantee does not affect your statutory rights, nor your rights against the supplier arising from their sales or purchase contract.

8 Waste Electrical & Electronic Equipment

human health.

Do not dispose of this device with unsorted waste. Improper disposal may be harmful to the environment and



Please refer to your local waste authority for information on return and collection systems in your area.

9 Technical Specification

230 V \sim 50 Hz, Class I construction. Enclosure to IPX4. With 15m supply cord.

Model		Hydromist 55/100	Hydromist 55/400
Code		HM55/100	HM55/400
Voltage	٧	230	230
Pump power	W	240	500
Pump Pressure	Bar / psi	6.8/100	27.6/400
Flow rate	l/min	6.8	3.8
Vac hose length	m	6	6
Vac motor	W	2 x 1200	2 x 1200
Water lift	mm	5400	5400
Solution tank capacity (max) *	litre	50	50
Recovery tank capacity (max) *	litre	45	45
Sound pressure level	dB(A)	86	86
In-line heater	W	N/A	3000
Size (LxWxH)	cm	87 x 61 x 115	87 x 61 x 115
Cable length	m	15	15
Weight empty	kg	47	60.5
Warranty		1 year	1 year

Truvox International is a BSI Registered Company and our policy is one of continuous development. We reserve the right to change specifications without prior notification.

10 Accessories and Cleaning Chemicals

Machine	Accessory	Part Number	Description
Hydromist 55	Cleaning Wand	20-0177-0000	Single brass tip low pressures up to 125
	Double Bend		p.s.i.
	Single jet		One piece stainless steel tube and
			head. Adjustable stainless steel handle.
	Cleaning Wand	20-0178-0000	Double brass tips for up to 400 p.s.i.
	Double bend		One piece stainless steel tube and head
	Double jet		with adjustable padded grip.
	Drain hose valve	02-3893-0000	PVC-U Compact ball valve that fits onto
			the drain hose and allows for easy
			emptying of the recovery tank.
Hydromist 55/100	15m Low Pressure	20-0176-0000	15m vac and hose assembly
	Hose		
	Upholstery tool	20-0179-0000	Clear plastic 89mm head for up to 120
			p.s.i
Hydromist 55/400	15m High pressure	20-0181-0000	15m vac and hose assembly
Hydrofflist 55/400	Hose		
	Stainless steel	20-0182-0000	Stainless steel 89mm head for up to 400
	upholstery tool		p.s.i., width.

Chemical	Bottle size	Bottles per case	Part No.	Description
Hydromist Carpet Cleaning Solution	500ml	10	HMC01005	The quality way to beautify carpets and upholstery. Formulation lifts dirt and
	1 litre	10	HMC01010	stains out of your carpets and helps prevent re-soiling. Leaves carpets and
	5 litre	4	HMC01050	upholstery soft and fresh.
Hydromist	500ml	10	HM003005	Formulated to help remove stubborn
Pre-spotter	trigger spray			stains from carpet and upholstery

IMPORTANT: Genuine accessories and chemicals are only available from authorised Service Agents or the Truvox Customer Service Department.

^{*} NOTE combined operational solution and recovery tank capacity 76 litres

11 Fault Diagnosis



WARNING - Before undertaking maintenance operations or adjustments switch off machine and unplug from the electricity supply

Problem	Reason	Remedy
	ELECTRICAL SYSTEM	
No electrical power	1. Defective power cord.	1. Replace
	2.Fuse blown.	2. Replace fuse. Unplug any
		equipment using the same circuit.
Switch is turned on. Intermittent	1. Faulty electrical cable.	1. Replace cable
power to motor(s).	2. Defective switches.	2. Contact service agent
	3.Loose terminal VACUUM SYSTEM	3. Contact service agent.
Vacuum motor on	1. Drain valve open	Close drain valve. Recovery tank
Little or no vacuum on wand	1. Brain valve open	lid must be closed
head.	2. Defective vacuum hose	2. Repair or replace hose. Remove
		kinks in vacuum hose.
	3. Vacuum disconnected	3. Open machine, connect vacuum
		hose to recovery tank.
Not enough vacuum power at the machine.	Damaged recovery tank lid.	1. Replace
	2. Lint clogging ball - type	2. Remove screen. Clean out fibres
	shutoff screen	and accumulated dirt.
	Vacuum hose connection	Check for leaks around clamps
	between stand pipe and	and cuffs (tighten). Replace
	vacuum motor.	damaged hose(s). 4. Check air flow by removing hose
	Vacuum motor exhaust blocked.	from machine and feel the exhaust
	DIOCKEG.	under the machine. Remove
		obstruction.
Motor running and no vacuum.	1. Faulty vacuum motor.	1. Replace.
No exhaust from the blowport	2. Float valve blocked.	2. Clean water shutoff screen.
·		
Premature closing of ball type	Dirty or clogged shut off	Remove and clean screen.
shutoff.	filter screen.	
Ball type shutoff failing to	2. Ball coated with detergent	2. Remove and rinse ball with clean
release after ball recovery tank is drained.	or other foreign material. 3. Screen slightly out of	water. 3. Bend screen by squeezing slightly
is dialited.	round.	by hand until there is an obvious
	Todrid.	space between ball and inside of
		screen.
Foam/dirty solution - coming out	1. Foam from carpet by	Use additional defoamer.
of vacuum exhaust port.	passing water shutoff.	
	2. Elbow in vacuum tank is	The elbow should be pointed
	not positioned correctly	directly at the side wall of the tank
	COLUTION OVOTER	away from the ball type shutoff.
Pump motor on no carey	SOLUTION SYSTEM 1. Clagged or faulty solution	Check intake on valve and remove
Pump motor on – no spray through jets.	 Clogged or faulty solution control valve. 	lint or other foreign material.
unough jeta.	2. Clogged or faulty quick	Depress plunger on solution hose
	disconnect on housing.	against inside wall of solution tank.
		If solution is flowing at this point,
		the system is O.K. If no solution
		flows, check the quick disconnect
		for lint and other foreign matter.
	3. Punctured pump	3. Replace with diaphragm repair kit.
	diaphragm.	4. Classista az wazada (t.)
Unayon aprov from int Cons	Clogged jets Clogged strainer in	4. Clean jets on wand or tool.
Uneven spray from jet. Spray	 Clogged strainer in solution tank. 	Unscrew strainer and remove lint and any other foreign material from
weak or uneven.	SUIULIUH LAHK.	and any other foreign material from

	T	
	0. 01	screen.
	Clogged jet.	2. Remove and clean.
Leaking or stuck solution valve.	Foreign material in valve.	Remove brass hex plug, clean
		valve and replace.
	2. Loose brass hex nut.	Reseal hex and plug.
	3. Valve worn or seals worn.	Replace worn parts with solution
		valve repair kit.
Pump motor not working.	Loose wiring	Check and replace connections
	Defective pump pressure	Replace with new pressure switch
	switch	assembly
	Motor burnout	Replace pump motor
Pump pressure low	Clogged filters	Unscrew in solution tank remove
		lint and any other foreign material
		from screen.
	Punctured pump diaphragm.	Replace with diaphragm repair kit.
	Defective rectifier or	3. Replace.
	motor.	·
	4. Pump not primed	4. Plug priming hose into solution
		connection and place end in
		solution tank. Run pump for 4
		minutes
Pump pressure varies.	Worn carbon brushes.	Replace brushes.
	Defective pump pressure	2. Replace.
	control switch.	

12 Declaration of Conformity

Declaration of Conformity

We, Truvox International Ltd.

of Third Avenue, Millbrook,

Southampton, Hampshire

England SO15 0LE

declare that the machinery

Make : Carpet Soil Extraction Machines

Type : Hydromist

Model : HM55/100..., HM55/400...

Serial Number : from 01000 Year of Construction : 2010

has been manufactured using the following transposed harmonised European Standards and technical specifications.

Ref No Title

2006/42/EC Machinery Directive and subsequent amendments

2006/95/EC The Low Voltage Directive and subsequent amendments

BS EN 60335-1 BS EN 60335-2-68

2004/108/EC The EMC Directive and subsequent amendments

EN61000-3-2 EN61000-3-3 EN55014-1 EN55014-2

Signed in: SOUTHAMPTON, England

on the 29th day of December 2009

Signature:

Name

: David Overell Technical file: Hydromist 55 lss. 1

Position : Managing Director Mark Campbell, Product Support Manager

Authorised dealer:				

Truvox International Limited
Third Avenue, Millbrook, Southampton, Hampshire SO15 0LE, England
Tel: +44 (0) 23 8070 2200 Fax: +44 (0) 23 8070 5001
e-mail: truvox@truvox.com Web: www.truvox.com

