

ENGLISH

Components description

1. Trigger spray
2. Solution dispenser coupling
3. Motor unit
4. Solution system coupling
5. Water or water + shampoo selector
6. External tank
7. Fastening catches
8. Water level gauge
9. Wet/dry tank
10. Handgrip
11. Suction power selector
12. Motor unit handle
13. Electronic suction power selector
(electronic version only)
14. Solution dispenser coupling
15. Motor protection cage
16. Solution dispenser
17. Flexible hose coupling
18. Suction on indicator light
19. Suction ON/OFF button
20. Cleaning-lock button
21. Cold-water-cleaning button
22. Hot-water-cleaning button
23. Steam-cleaning button
24. Cleaning-on indicator light

Tools and accessories

25. Flexible suction hose with handgrip
26. Large triangular clear plastic attachment
27. Small triangular clear plastic attachment
28. Carpet/rug brush
29. Window cleaning attachment
(where provided)
30. Hard floor brush
31. Extension tube handgrip
32. Multi-purpose nozzle
33. Round brush attachment
34. Crevice tool
35. Wet vacuum filter
36. Paper filter
37. Dust bag
38. Shampoo bottle
39. Two extension tubes
40. Dust bag ring
41. Steam brush attachment

Dear Customer,

Thank you and congratulations on your purchase of a PENTAVAP extraction cleaner.

Every De' Longhi product is the result of meticulous technical testing supported by a consolidated experience in the design and manufacture of household cleaning appliances.

We have prepared this manual to help you make the most of your PENTAVAP and fully appreciate its superb quality.

Please read it carefully before you use your appliance.

We are certain that, if you follow our suggestions, this appliance will give you maximum satisfaction and many years of service.

PENTAVAP is a multi-function appliance ideal for all house-cleaning jobs. It is the first deep-cleaner capable of washing and drying any surface using the best technique for each.

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IMPORTANT INFORMATION

- 1) **Read the instruction booklet carefully before using the appliance.**
- 2) The appliance contains pressurised steam. Incorrect or improper use could be dangerous. The appliance is designed for household use or for gardening, hobbies or DIY. All types of industrial use are excluded. The manufacturer declines all liability for damage deriving from improper use of the product.
- 3) **Always disconnect the appliance from mains outlet when not in use or before any maintenance or care operation.**
- 4) Before using, check that the mains voltage corresponds to the voltage indicated in the specifications label under the handle.
- 5) Connect your cleaner only to power outlets with a minimum of 10 amps V, and make sure the outlet is earthed.
- 6) **Do not leave your cleaner unattended while it is running. Keep it away from the reach of children and persons unfit to use it.**
- 7) **Avoid the steam coming into contact with the skin. The high temperature could cause serious burns. Never direct the steam jet towards persons or animals or towards surfaces or objects with could be damaged by high temperatures.**
- 8) Do not aim the water or steam jet at people or animals and do not use on surfaces or objects with a low resistance to heat.
- 9) Never direct the steam jet towards the appliance. Before steam cleaning electrically-powered objects or household appliances (electric oven, refrigerator, extractor fan, etc), unplug these appliances from the mains. Before plugging in again, make sure they are perfectly dry as residual water could cause electrical discharges.
- 10) Avoid skin contact with steam. High temperature may cause serious burns.
- 11) Do not touch the plug or cord with wet hands.
- 12) Do not clean the appliance with trichloroethylene or other solvents. Use soapy water only.
- 13) Do not add detergent to the water tank (steam function). Use water only.
- 14) Do not run the appliance over the power cord as this may damage the insulating sheath.
- 15) Do not tug on the power cord to disconnect the appliance from mains outlet.
- 16) Do not shut the power cord in doors or rub against sharp corners. Keep away from hot surfaces.
- 17) Do not use the appliance to pick up matches, hot ash, or burning cigarette ends.
- 18) Do not use to pick up flammable liquids.
- 19) Avoid vacuuming up hard or sharp objects that might damage the dustbag or the appliance itself. Do not use to pick up nails, pins, screws, coins, or other metal objects.
- 20) Always check that filters are in place before switching on your appliance.
- 21) After use, disconnect the flexible hose and the solution dispenser before storing the appliance. Empty the solution dispenser by working the dispenser trigger.
- 22) Periodically check the exhaust filters, and replace if necessary.
- 23) After washing the wet vacuum filter, make sure it is perfectly dry before re-positioning it.
- 24) **Be especially careful when using the appliance on stairs.**
- 25) To prevent fire or shock hazard do not expose the appliance to rain or moisture. Keep out of direct sunlight.
- 26) Do not attempt to use the appliance if it appears to be faulty. Do not use with a damaged power cord or plug. If the machine has been accidentally dropped, left outside, immersed in water or otherwise wet, take it to an authorized Technical Service Centre.
- 26) To repair or if the power cable is damaged and requires replacement, contact an authorised service centre in order to avoid compromising the efficiency of your appliance and guarantee the validity of the guarantee. For the same reasons, you are always recommended to use original spare parts.

SAVE THESE INSTRUCTIONS

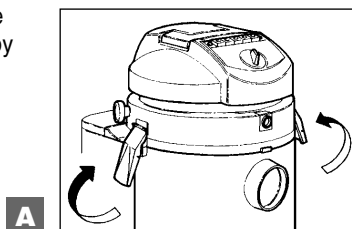
The manufacturer reserves the right to change the specifications of the appliance and/or accessories without prior notice. This appliance complies with EEC Directive 73/23 and 93/68 CEE and 89/336 CEE on electromagnetic compatibility.

CAUTION: unplug the appliance from the mains before effecting any set-up operations or maintenance.

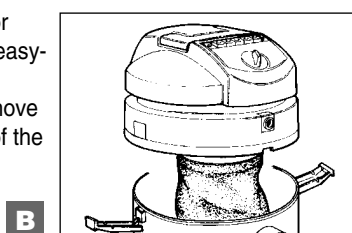
1. DRY VACUUM

PENTAVAP is first and foremost a powerful vacuum cleaner.

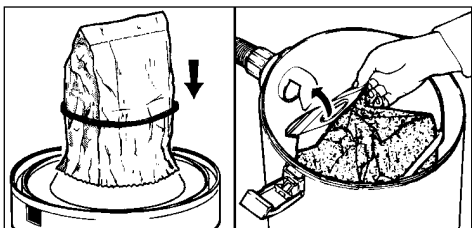
Release the motor unit by pulling the hooks out (fig. A).



Lift off motor unit by the easy-grip handle (fig. B). Remove tools from the tank.



Make sure that the motor-protection paper bag (36) is fitted over the motor housing (36). Secure the paper filter with the special elastic ring (40) or an ordinary elastic band (fig. C). Position the large dustbag (37) inside the tank by fitting the cardboard collar onto the suction inlet port (fig. D).



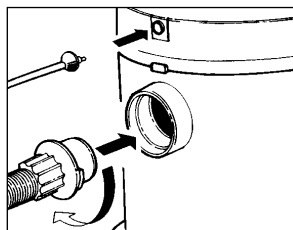
C

D

Attach motor unit to the tank, refastening the two catches (fig. A). Connect the flexible hose to the inlet port of your cleaner by rotating the hose coupling (17) clockwise until securely attached (fig. E).

Connect the solution dispenser by pressing in until it clicks into place.

E



DRY VACUUM TOOLS AND ACCESSORIES

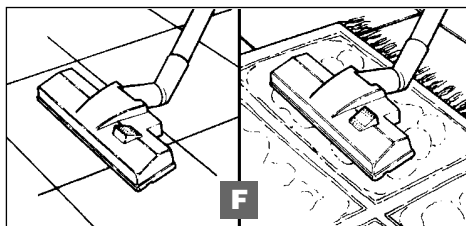
Attach one end of the extension tubes (39) to the handgrip (10) and the appropriate tool to the other end.

Carpet/floor power brush (28)

Effectively picks up dust from hard floors and carpets or rugs.

To vacuum hard floors, depress the beater brush lever to show the bristles extended symbol (▧▲).

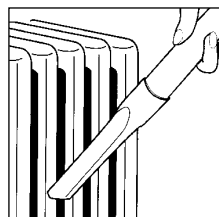
To vacuum carpets or rugs, depress the beater brush lever on the opposite side to show the bristles withdrawn symbol (▧▼) (fig. F).



F

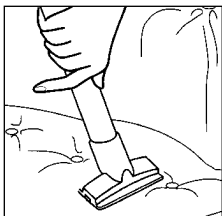
Crevice tool (34)

You can use this tool to pick up crumbs, dust, and other fine debris. Ideal for cleaning those hard-to-reach places like radiators, car interiors, awkward corners, and so on.

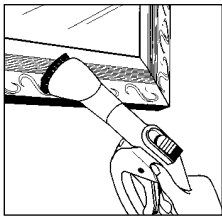


**Multi-purpose nozzle
(32)**

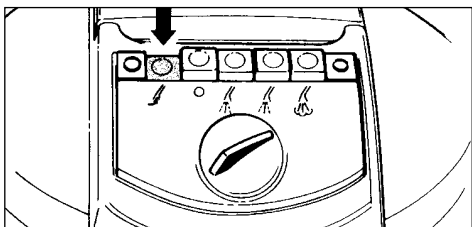
For cleaning upholstery, sofas, car interiors, drapes, curtains, etc.

**Round dusting brush
(33)**

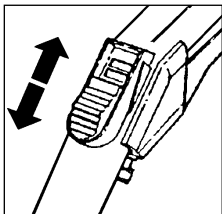
Suitable for dusting upholstery, furniture, books, drapes, frames, and clothes.



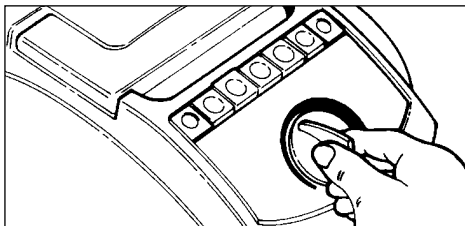
Fit the required tool to the flexible hose, plug in the power cord (the green light (18) comes on) and switch your cleaner on by depressing the ON/OFF suction button (19) (fig. G). To stop vacuuming, press the button again.

**G**

The handgrip is equipped with a slide switch to let you adjust suction power.

**ELECTRONIC VERSION**

Cleaners equipped with electronic suction control have a selector (13) to adjust suction power to the type of fabric to be cleaned or the dirt to be removed (fig. H).

**H**

It is advisable to set the selector to minimum power before switching on the appliance.

Maximum power: recommended for heavy dirt (pebbles, soil, etc.) on hard flooring, matting and deep-pile carpets, in corners, along edges, etc.

Medium power: saves energy and reduces the noise of the appliance. It is more than enough to remove dust from hard flooring and upholstery.

Minimum power: indispensable for vacuuming over light, delicate objects such as light fabric coverings, to avoid sucking up the fabric and making cleaning difficult.

PAPER FILTER MAINTENANCE

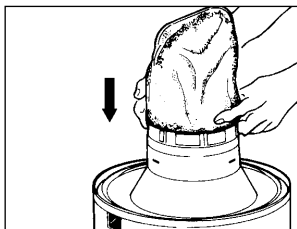
When using your appliance as a dry vacuum cleaner, replace paper filter (36) regularly. When vacuuming up particularly fine dust, for example cement, talcum powder, rubble dust, etc., the paper or cloth filter may appear to be clean, while actually being clogged, thus reducing suction and lowering performance. In such cases, it is preferable to replace the paper filter.

2. WET VACUUM

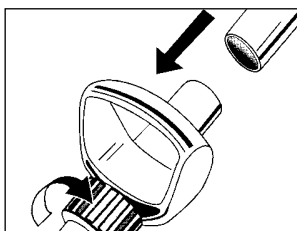
This function will help you to cope with those little emergencies when you have to mop up liquids and spillages from any surface quickly and efficiently, like, for example, unclogging a drain or dealing with minor floods (washing machines, dishwashers, basement floors, etc.) Do not immerse the appliance in liquids, only the nozzle end.

Proceed to set up your PENTAVAP as described in Sect. 1 (dry vacuum) (fig. A and fig. B).

Fit the polyurethane foam filter for wet pick up (35) over motor housing (15) (fig. C).

C


Attach one end of the extension tubes (39) to the handgrip (10) and the appropriate tool to the other end. To make handling the extension tubes easier, fit the extra handgrip (31) (fig. F).

F


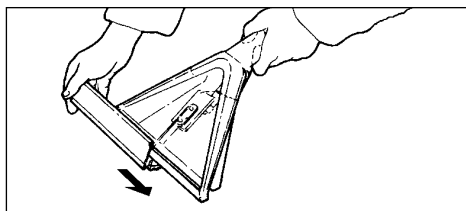
WET VACUUM TOOLS AND ACCESSORIES

Crevice tool (34)

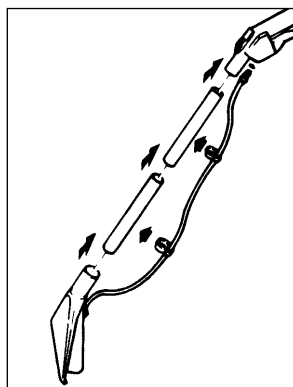
Recommended for wet pick-up from hard-to-reach places or to unclog drains.

Large triangular clear plastic attachment (26)

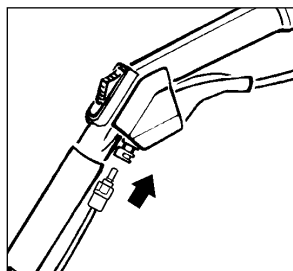
Useful for picking up liquids from floors, carpets and rugs. When using on hard floors, fit the hard-floor attachment (30) (fig. G).


G

Fit the triangular attachment on the extension tube and connect the solution dispenser (already connected to the nozzle) extension tube by means of its clips (fig. H).

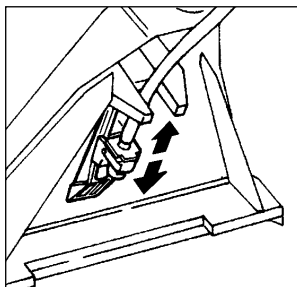
H


Connect the solution dispenser to the handgrip by pressing in until it clicks in place (fig. I).

I


Adjust the position of the nozzle to the cleaning operation you intend to perform (fig. L):

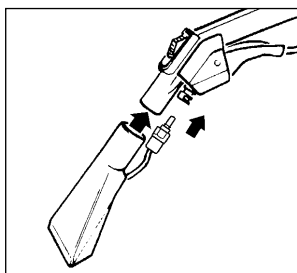
- push upwards for hot- or cold-water cleaning;
- push downwards for steam cleaning.

L

Small triangular clear plastic attachment (27)

Ideal for spot cleaning or vacuuming spills on upholstery, sofas, furniture, etc.

Attach nozzle directly to handgrip. Connect solution dispenser to handgrip by pushing it until it clicks in place (fig. M).

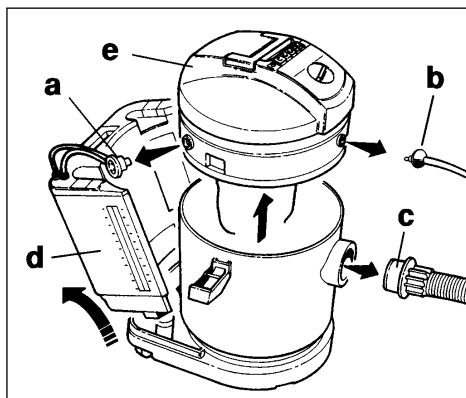
M

Connect to power mains and switch your PENTAVAP on by depressing the suction button (fig. G, p. 7).

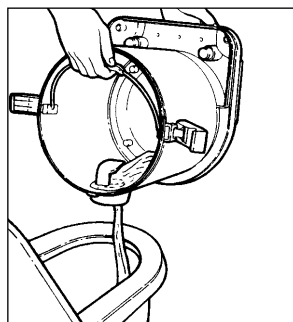
CAUTION: PENTAVAP can hold up to 8 litres of water in the dirty-water tank. When the dirty-water tank is full, a special safety device will shut suction off automatically and the number of motor revolutions will increase. At this point, switch off the motor, disconnect the machine and empty the dirty-water tank.

EMPTYING THE DIRTY WATER TANK

To empty the tank, disconnect in this order: the water or water-shampoo solution injection system (a), the solution dispenser (b), the suction hose coupling (c), the external removable tank (d), and the motor unit (e) (fig. N).

**N**

Empty the dirty-water tank with the help of the inner handle (fig. O).

O

3. EXTRACTION CLEANING

With PENTAVAP you can use cold water to gently clean floors and fabrics, hot water for tough dirt, and a powerful steam jet to sanitize all surfaces.

CAUTION: Make sure that all the fabrics and surfaces to be cleaned are colour-fast and sturdy enough for extraction cleaning. If in doubt, spot-test in an inconspicuous area and wait until completely dry before checking the results.

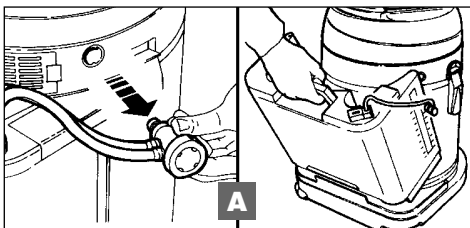
IMPORTANT NOTICE: If the fabric has previously been treated with a shampoo different from the product supplied with this appliance, excessive foam may form inside the dirty-water tank. If the foam should begin to overflow and leak out, switch off your cleaner and empty the dirty-water tank. Always use the original no-foam shampoo.

Proceed to set up your PENTAVAP as described in Sect. 2 (wet vacuum).

GETTING THE EXTERNAL TANK READY FOR EXTRACTION CLEANING

The external unit (6) has two tanks, one containing the detergent solution (water and shampoo) for cleaning with water, the other filled with clean water for rinsing or steam cleaning.

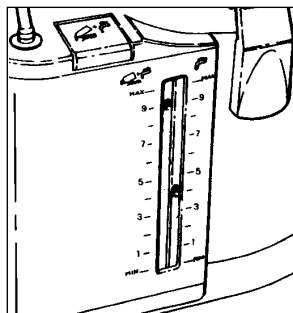
Disconnect the solution injection system (5) and remove the solution tank lifting it out by its handle (fig. A).



Fill the tank from the port marked with the tap symbol with plain water until the Max level on the water gauge is reached (fig. B).

Fill the tank with the tap + shampoo symbol on the cover (approx. 3 litre capacity) with water until the left-hand-side water level ball in the water level gauge reaches notch no.9, then add shampoo to fill. The ball should now reach the MAX notch.

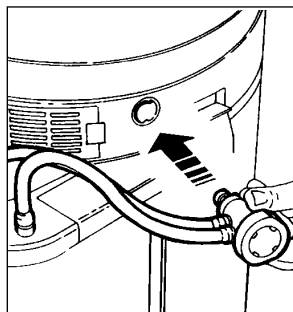
B



NOTE: this proportion applies when using the original shampoo. The manufacturer disclaims any liability for damage to rugs, carpets, chairs, upholstery, etc., resulting from the use of detergents other than those provided with the appliance.

Close the port hatches, reattach the removable tank, and connect the solution injection system (5) by firmly pressing in place (fig. C).

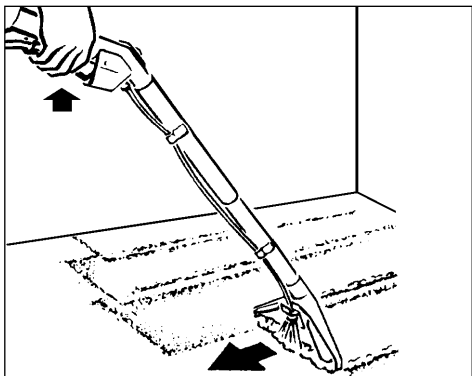
C



EXTRACTION CLEANING TECHNIQUES

Extraction cleaning with cold or hot water, or steam, is performed as follows:

- spray the detergent solution or the steam jet onto the surface to be treated by pressing the spray trigger (1) while simultaneously vacuuming from front to back (fig. D). go over the same area several times, vacuuming only. The treated surface will then be free of dirt and almost completely dry.



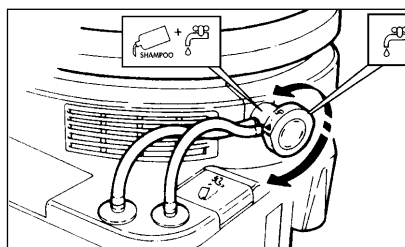
D

IMPORTANT NOTICE: set suction at maximum power for the electronic version.

COLD-WATER CLEANING (WITH SHAMPOO)

Cold-water cleaning is particularly recommended for delicate unwaxed hard floors like fired-clay tiles, parquet floors and all textile flooring (rugs, carpeting).

Fit your PENTAVAP with the tool required for the desired type of cleaning. Rotate the selector of the PENTAVAP solution injection system to the shampoo position to obtain spray action for the water and shampoo solution (fig. E).

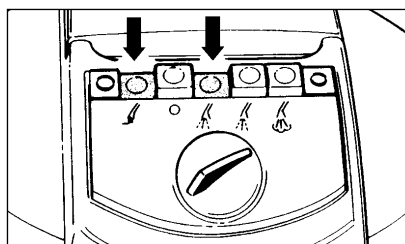


E

Plug in your PENTAVAP (green light (18) on) and depress the suction (19) and cold-water cleaning (21) buttons on (red light (24) on) (fig. F).

At this point your PENTAVAP is ready for extraction cleaning.

To switch the machine off, depress the cleaning-lock (20) and suction (19) buttons.



F

NOTICE: noise level. After setting up your machine, you may notice an increase of the noise level for a few seconds. This is not due to a defect in the machine but to the water starting to circulate for the first time. Should the noise continue for more than 15 seconds, check that the suction inlet tube is correctly connected to the motor unit. When the water in the tank runs out, the noise level will increase once again. At this point, switch off the machine and proceed to refill the tank as described in the instruction booklet.

IMPORTANT: the pump noise level acts as an acoustic warning that the water in the tank has run out.

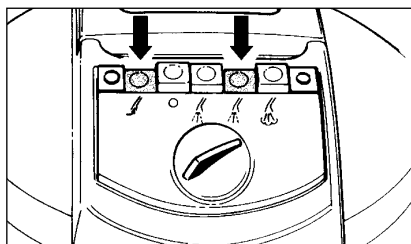
HOT-WATER CLEANING (WITH SHAMPOO)

Hot-water cleaning is recommended for heavily soiled unwaxed hard floors like ceramic tiles, linoleum or vinyl floors, and tiles in general. Recommended also for mirrors and windows - use with the special squeegee attachment.

CAUTION: never let the steam-generator on when the tank has run out of water.

Fit your PENTAVAP with the attachment best suited to the task required. Rotate selector to the shampoo setting. Your cleaner is now ready to deliver a powerful jet of hot water-and-shampoo solution (fig.E).

Plug in your PENTAVAP (green light (18) on) and depress the suction (19) and hot-water cleaning (22) buttons on (red light on); the machine will emit a particular intermittent sound. This is perfectly normal and indicates that the machine is working (fig. G). Wait a few seconds, then proceed to clean. To switch the machine off, depress the cleaning-lock (20) and suction (19) buttons.



G

USEFUL TIPS: In case of particularly tough dirt, proceed as follows:

- begin by dry-vacuuming in accordance with the instructions contained in the "Dry vacuum" section;
- set up the machine for extraction cleaning and proceed to treat the dirty surface as follows;
- rotate selector (5) to the water + shampoo position;
- depress hot-water button (22) and use the spray trigger on the handgrip to spray cleaning solution on the surface to be treated;
- wait one or two minutes for pre-treatment to soak in;

- depress suction button (19) and go over the pre-treated area using dry vacuum only (do not use spray trigger);
- rinse carefully following the instructions in the next section.

CAUTION: when resuming cleaning with hot water after a few minutes' pause, aim the nozzle away for the surface you are cleaning as the machine may release steam for a few seconds.

RINSING OPERATIONS

After cleaning with the detergent solution, you may wish to proceed to rinse. Rinsing with water only will ensure that all traces of detergent are removed from the treated surface, and is especially recommended for materials where detergent residues are hard to get to, like, for example, fabric and textiles in general. For rinsing, use the same tools as for extraction cleaning. Rotate selector (5) to the water-only position. Plug in your PENTAVAP and depress the suction (19) and cold-water (21) buttons. Proceed to clean the surface using the same technique as for hot- or cold-water cleaning (fig. D).

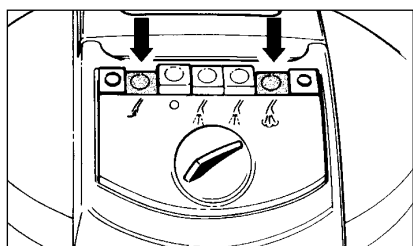
When not using the appliance for a fairly long time, it is advisable to flush out the system with plain water, no detergent added, before storing the machine, to avoid blockages due shampoo residues in the pump. Fill the tank with water only, and operate the pump depressing the spray trigger for a few minutes.

STEAM CLEANING

Recommended for the maximum hygiene of non-delicate unwaxed hard floors (ceramic tiles, linoleum or vinyl floors, tiles in general) and to clean glass surfaces.

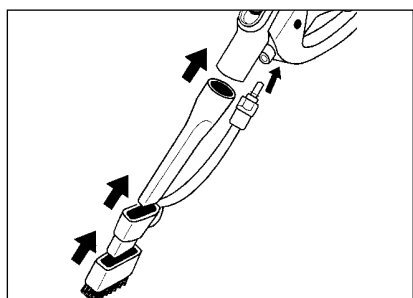
Fit your PENTAVAP with the required attachment.

Rotate selector (5) to the water-only position. Plug in your PENTAVAP (green light on) and depress the suction (19) and steam (23) buttons on (flashing red light on) (fig. H). Wait a few seconds, then proceed to clean using the same technique as for cold- or hot-water cleaning. To switch the machine off, depress the white cleaning-lock (20) and suction (19) buttons.



Crevice tool + steam injector and brush attachment (34) + (41)

By fitting the crevice tool with the steam injector and the brush attachment, you can easily clean grouting, radiators, bathroom fittings and all other hard-to reach places (fig. H*).



USEFUL TIP: In case of particularly large surfaces, the external tank marked with the water + shampoo symbol can be filled with water only, thus prolonging the autonomy of the machine. Conversely, if more shampoo is needed, a larger percentage can be added to the water.

IMPORTANT: After using your PENTAVAP, always drain the solution dispenser by working the dispenser trigger and then disconnect the flexible hose and the solution dispenser before storing the appliance.

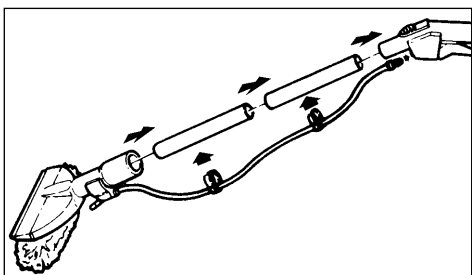
CAUTION: Do not depress the extraction cleaning button when there is either no detergent solution or water only in the tank, or when using the appliance for wet or dry vacuuming. In case of incorrect use of the pump (extraction cleaning activated but the detergent solution not used for 15 minutes or longer), pump action shuts off automatically to prevent damage. In that case, wait at least 30 minutes before switching the machine on again.

WINDOW CLEANING

The window wiper attachment (where provided) is an extremely practical tool for cleaning glass surfaces. If your appliance is not provided with this accessory, you can ask your dealer for one as an optional extra.

CAUTION: When cleaning window with hot water or steam in cold weather, pre-heat glass panes with a weak jet of hot water or steam and then continue at a higher temperature setting to avoid breakage due to sudden changes in temperature.

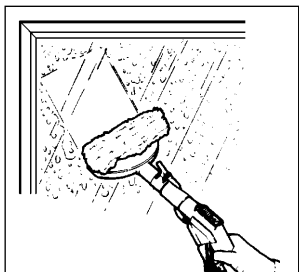
Fit the attachment either directly onto the handgrip or, if it makes work easier, use the rigid extension tubes as well. In this case, fit the longer solution dispenser to the extension tubes and secure it with its clips.



I

Glass can be cleaned with hot or cold water, or with steam. In all cases use the following method: spray water or steam jet on the surface to be cleaned and go over the area with the sponge side of the squeegee, then wipe the glass dry by turning the squeegee over and using the rubber scraper side.

L



4. CARE AND MAINTENANCE OF THE APPLIANCE

CAUTION: Always disconnect the appliance from mains outlet before performing any care or maintenance operation.

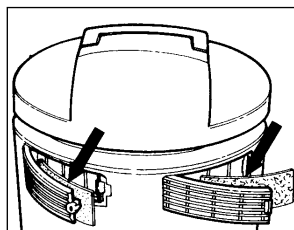
After the appliance has been used for extraction cleaning or wet vacuuming, the tools and accessories should be rinsed to ensure maximum hygiene before storing the machine. Clean nozzle, tubes, hose, and attachments by vacuuming up a few litres of clean water.

Always empty out the dirty-water tank after use (see instructions).

After emptying and rinsing the dirty-water tank, remove the wet-vacuum foam filter (35), wash it under running water and let it dry completely before re-positioning.

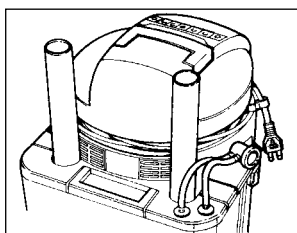
Owing to their particular composition, wet-vacuum foam filters must be kept dry to prolong their life and prevent deterioration. Periodically replace the exhaust filters located inside the exhaust port hatch on the motor unit (fig. A).

A

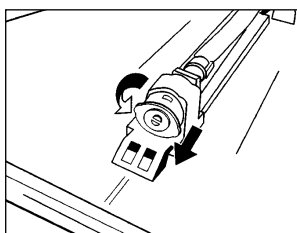


Periodically check that the float inside the motor unit cage is free to move in its housing (15). Before storing, place all tools and accessories inside the dirty-water tank, while the extension tubes may be fitted between the external tank and the dirty-water tank.

Wind the cord (checking that it is not damaged or worn) in its storage groove around the motor unit (fig. B).



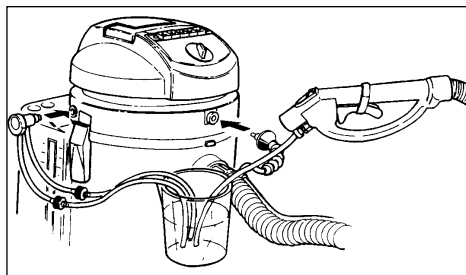
In case the nozzle on the triangular attachments should become obstructed, remove blockage by pulling out the nozzle with a clockwise motion. Clean nozzle under running water and re-position in its housing (fig. C).



(16).

Place the small tubes inside the container with the descaling solution.

Switch the machine on by depressing the cold-water-cleaning button (21) and let the machine run for about 30 minutes while keeping the spray trigger (1) depressed with the special band provided. Follow with rinsing with plain water for 10 more minutes.



Descaling the steam generator

The steam generator should be descaled after 8/10 times it has been used for steam cleaning, to prevent scale build-up which may result in a lowered performance.

Fill a vessel with a litre of water and 125ml of descaling solution (citric acid).

Remove the liquid injection tubes from the external tank (fig. D), connect solution injection system (5) to its coupling on the motor unit (4), solution injection (2) to its coupling on the handgrip, and solution dispenser (16) to its own port

