

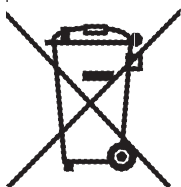
ENGLISH

Description

1. Delivery lever
2. Delivery tube connection
3. Motor unit
4. Water or water + shampoo selector knob connection
5. Water or water + shampoo selector knob
6. External tank
7. Clips
8. Liquid level indicators
9. Liquid collection drum
10. Handgrip
11. Manual suction power regulator
12. Motor unit handle
13. Electronic suction power regulator (electronic version only)
14. Delivery tube connection
15. Motor housing
16. Delivery tube
17. Hose coupling
18. Vacuum on light
19. Vacuum button
20. "Cleaning off" button
21. Cold water cleaning button
22. Hot water cleaning button
23. Steam cleaning button
24. "Cleaning on" light

Tools

25. Flexible hose with handgrip
26. Two extension tubes
27. Handle
28. Diffuser cone
29. Polyurethane filter
30. Multipurpose nozzle
31. Brush tool
32. Crevice tool
33. Radiator brush
34. Squeegee
35. Multipurpose brush
36. Dry vacuuming frame
37. Steam frame
38. Cloth holder clips
39. Cloth
40. Small triangular nozzle
41. Steam tools connector
42. Steam lance
43. In-line bristle brush
44. Brush
45. Detergent bottle
46. Bottle of descaler
47. Large triangular nozzle
48. Hard floor attachment



Important information for correct disposal of the product in accordance with EC Directive 2002/96/EC.

At the end of its working life, the product must not be disposed of as urban waste.

It must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service.

Disposing of a household appliance separately avoids possible negative consequences for the environment and health deriving from inappropriate disposal and enables the constituent materials to be recovered to obtain significant savings in energy and resources. As a reminder of the need to dispose of household appliances separately, the product is marked with a crossed-out wheeled dustbin.

Dear Customer,

Congratulations and thank you for choosing the PENTAVAP.

All De'Longhi products are the result of exhaustive technical tests backed by consolidated experience in the design and production of home cleaning appliances.

We have produced this manual to enable you to get the best from your PENTAVAP and appreciate its quality to the full.

Please read every section of this manual before using the appliance.

If you follow our tips, we are sure your PENTAVAP will give you complete satisfaction and long and faithful service.

The multipurpose PENTAVAP enables you to perform all normal home cleaning operations with just one appliance. It is the first able to wash and dry all types of surface using the most appropriate technique.

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Important safeguards

- 1) Read these instructions 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) When not in use or before maintenance or cleaning of the appliance, always unplug from the mains socket.
- 4) Before use, check that the mains voltage corresponds to the voltage indicated on the rating plate under the handle of the appliance.
- 5) Connect the appliance to an efficiently earthed socket with a minimum current rating of 10 A only.
- 6) The appliance 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 appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- 7) Avoid the hot water coming into contact with the skin. The high temperature could cause serious burns.
- 8) Never direct the steam jet towards persons or animals or use it on surfaces or objects that are sensitive to the operating temperature of the appliance.
- 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) Never handle the plug with wet hands.
- 11) Never clean the appliance with triethylene or other solvents. Use water with normal liquid detergents only.
- 12) Do not add detergent to the water tank (steam cleaning). Use water only.
- 13) To avoid damaging the insulation, do not run the appliance over the power cable.
- 14) Never unplug the appliance by pulling the power cable.
- 15) Avoid closing the door on the cable or rubbing it over sharp edges. Keep away from hot surfaces.
- 16) Never vacuum up matches, ash or cigarette ends when still lit.
- 17) Never vacuum up inflammable or corrosive liquids.
- 18) Avoid vacuuming up hard or sharp objects as they could damage the dust bag or the appliance itself. Never use the appliance to vacuum up nails, pins, screws or metal objects.
- 19) Before starting the appliance, make sure the filters are in position.
- 20) After using the appliance, before putting it away, empty the delivery tube using the delivery lever, then remove the hose and delivery tube.
- 21) Check the air outlet filters periodically and replace if necessary.
- 22) After cleaning the wet vacuuming filter, check it is perfectly dry before replacing.
- 23) Take particular care when using the appliance on stairs.
- 24) Protect the appliance from the elements (rain, frost, sun, etc).
- 25) Do not use the appliance if it appears to be faulty. Do not use if the power cable or plug is damaged. If the appliance has been dropped, left outside, got wet or been immersed in water, take to an authorised service centre.
- 26) For all repairs and for replacement of the power cable if damaged contact your dealer or an authorised service centre to maintain the efficiency of your appliance and the validity of the guarantee. For the same reasons, you are always recommended to use original spare parts.

KEEP THESE INSTRUCTIONS

The manufacturer reserves the right to modify appliances and tools without warning.

This appliance conforms to EEC directives 73/23 and 93/68 (and subsequent amendments) on Low Voltage and 89/336 (and subsequent amendments) on Electromagnetic Compatibility.

WARNING: before performing maintenance or preparing the appliance for use, make sure it is unplugged from the mains.

ASSEMBLY AND PREPARATION FOR USE

Release the motor head by pulling the clips outwards (fig. A).

Lift the motor head by the handle, remove the tools from the drum and make sure the polyurethane filter (29) is in place in the motor housing (15) (fig. B).

Remove the curved steel handle by extracting the ends from their housing (first one side, then the other) (fig. C).

Remove the diffuser cone from the drum (fig. D)

Pour about two litres of water into the drum then replace the diffuser cone, steel handle and motor unit.

Clip the head back on the drum, making sure it lines up with the block above the suction port (fig. E).

1. DRY VACUUMING

PENTAVAP is above all a powerful and versatile vacuum cleaner.

Prepare the appliance for use as described in the previous paragraph.

Connect the hose to the suction port of the appliance by rotating the hose coupling (17) clockwise until firmly attached (fig. F).

Connect the delivery tube to the drum, pushing it in until the release/lock button clicks.

DRY VACUUMING TOOLS

Connect the extension tubes (26) to the handgrip (10) then fit the tool most suitable for the cleaning to be performed to the other end.

Crevice tool (33)

Use to collect crumbs, dust and small debris. Perfect for hard-to-reach corners, such as between radiators, car interiors, etc. (fig. I)

Multipurpose nozzle (31)

Use to clean sofas, upholstery, car interiors, curtains, etc. (fig. G).

Adjust the suction power appropriately.

Brush tool (32)

Use to remove dust from upholstery, furniture, books, curtains, picture frames and clothes (fig. H)

Multipurpose brush (35)

Use this brush to vacuum up liquids and dust. When using the appliance as a vacuum cleaner, you are recommended to use the dry vacuuming frame (36). Before fitting the frame, make sure the brush bristles are retracted and the pedal is in the position shown in fig. J.

Attach the frame to the brush, making sure the four tabs on the frame are correctly inserted in the slots.

TURNING ON

After attaching the required tools to the hose, plug the appliance into the mains socket (the green light (18) comes on) and press the vacuum button (19) (fig. K).

To stop vacuuming, press the vacuum button again (19).

The handgrip on the vacuum hose has a sliding control to regulate suction power manually.

ELECTRONIC VERSION

Appliances with electronic suction power regulation are fitted with a dial (13) to adjust the power based on the fabric being cleaned and amount of dirt (fig. L).

Before turning the appliance on, you are recommended to set the dial to minimum.

Maximum power: recommended for tough dirt (grit, soil, etc.) on rough floors, fabric floors and deep pile carpets, corners, edges, etc.

Medium power: saves electricity and makes the appliance less noisy. More than adequate to remove dust from hard floors and upholstery.

Minimum power: essential for vacuuming light delicate objects such as light textiles, to prevent the fabric from being sucked in and making cleaning difficult.

2. WET VACUUMING

This function of the PENTAVAP enables the appliance to be used to tackle those minor household emergencies requiring liquids to be collected, such as blocked sinks or drains, small floods (washing machine, dishwasher, cellars etc.), without immersing the appliance in the water.

Set the appliance up as described in point 1 (dry vacuum function).

WET VACUUMING TOOLS

Crevice tool (32)

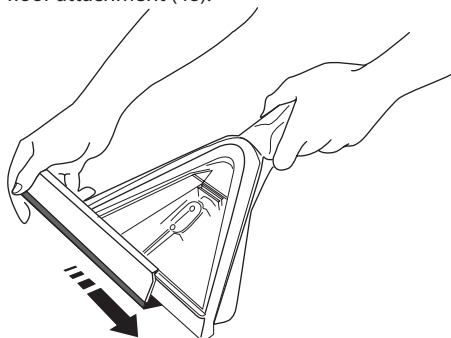
Use to vacuum up liquids from hard-to-reach points and blocked sinks.

Small triangular nozzle (40)

Use the small triangular nozzle to wash and wet vacuum upholstery, sofas, furniture and hanging fabrics. Fit directly onto the handgrip. Connect the delivery tube to the hose handgrip and push as far as it will go until the release/lock button clicks (fig. M).

Large triangular nozzle (47)

Useful for picking up liquids from floors, carpets and rugs. When using on hard floors, fit the hard-floor attachment (48).



TURNING ON

Plug the appliance into the mains socket and turn on using the vacuum button (fig. K).

IMPORTANT: the appliance can hold around 8 litres of water in the liquid collection drum. Over this level, a special device stops suction and the motor increases speed. If this occurs, you should turn off the motor, unplug the appliance and empty the liquid collection drum.

EMPTYING THE LIQUID COLLECTION DRUM

To empty the drum, the following must be removed in sequence (fig. N):

- water or water + shampoo selector (5);
- delivery tube (16);
- hose coupling (17);
- external tank (6);
- motor unit of the appliance (3).

Use the handle inside the drum to facilitate emptying (fig. O).

In the event of difficulty, first empty the diffuser cone. Remove the steel handle before extracting (fig. P).

3. EXTRACTION CLEANING

The appliance uses cold water to protect floors and fabrics while cleaning, hot water to remove tougher dirt and steam for perfect hygiene on all types of surface.

IMPORTANT: make sure the fabrics and surfaces to be cleaned are suitable for and resistant to extraction cleaning. If in doubt, try on a corner of the rug or surface to be cleaned and wait until completely dry to verify the result.

NB: if the fabric surface being cleaned has been previously washed using shampoo other than the type supplied, this may cause excessive foam to form inside the drum.

If foam leaks from the head, switch the appliance off immediately and empty the drum. Always use the original low-foam shampoo.

Set the appliance up as described in point 1 (dry vacuum function).

PREPARING THE TANK FOR EXTRACTION CLEANING

The tank (6) includes two containers, one for the solution of detergent and water for wet cleaning and the other for pure water for rinsing or steam cleaning.

Release the selector knob (5) and remove the tank, lifting by the special handle (fig. Q).

Fill the tank with the tap symbol on the hatch with around 2.5 l of water up to the Max. level marked on the level indicator (fig. R).

Fill the tank with the tap + shampoo symbol on the hatch (capacity of around 3 l) as follows: with reference to the level indicator, fill with water until the level indicator ball reaches notch no. 9 (fig. R).

Then add the shampoo until the ball reaches the Max. notch.

IMPORTANT: these proportions refer to the original detergent. The manufacturer declines all liability for damage caused to fabrics or the appliance by the

use of other detergents.

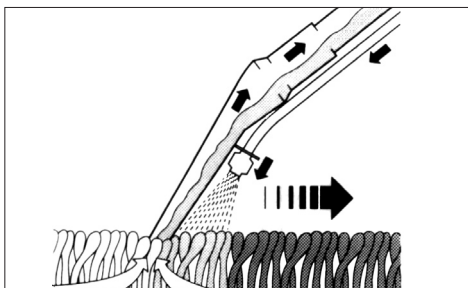
For original parts, contact an authorised service centre only.

Close the hatches and put the tank back on the appliance. Replace the selector knob (5) and press as far as it will go (fig. S).

EXTRACTION CLEANING TECHNIQUE

To extraction clean (cold water, hot water, steam), proceed as follows:

- aim the detergent solution or steam jet at the surface to be treated using the delivery lever (1) and at the same time vacuum from the front backwards (see following figure).



- pass a number of times over the surface to be treated vacuuming only. The treated surfaces will be almost completely dry and the dirt will be removed.

NB: for the electronic version, set the suction power to maximum.

EXTRACTION AND STEAM CLEANING TOOLS

Multipurpose brush (35)

To use the brush to steam clean hard floors, turn the pedal until the bristles are protruding. This provides a combined steam + brush action for more thorough cleaning (fig. T).

Tips: not recommended for treated terracotta floors, waxed floors and parquet.

Steam frame (37), clips (38) and cloth (39)

For steam cleaning without vacuuming, attach the steam frame to the brush (37).

After attaching the frame to the brush, fix the cloth (39) in place using the special clips (38) (fig. U).

NB: this type of cleaning is particularly suitable for ceramic tiled floors.

Small triangular nozzle (40)

Use for extraction cleaning of upholstery, sofas, vertical fabrics etc. (fig. M)

Large triangular nozzle (47)

Useful for floors, carpets and rugs. When using on hard floors, fit the hard-floor attachment (48).

COLD WATER CLEANING WITH DETERGENT

Cold water cleaning is especially recommended for washing delicate hard floors, such as treated terracotta floors or parquet and all types of fabric floor coverings (carpets and rugs). It is also recommended for cleaning sofas, armchairs, padded furniture in general, upholstery and car interiors.

Fit the most suitable tool for the type of cleaning being performed.

Turn the selector knob to the detergent position so that the appliance sprays a solution of water and shampoo (fig. V).

Plug the appliance into the mains socket (green light (18) on), press the vacuum (19) and cold water cleaning (21) buttons (red light (24) on) (fig. W). The appliance is now ready for cold water cleaning. To switch off the appliance, use the white "cleaning off" button (20) and the vacuum button (19).

IMPORTANT: noise levels. After preparing the appliance, when you turn it on, the noise will be louder than usual for a few seconds. This is not caused by faulty operation, but by water entering into circulation for the first time. If the noise continues for more than 15 seconds, make sure the vacuum hose is fitted correctly onto the motor unit. When the water in the tank runs out, the noise will get louder again. Turn the appliance off and fill as described in the manual.

NB: The noise made by the pump acts as an acoustic signal warning when the water in the tank runs out.

HOT WATER CLEANING WITH DETERGENT

Hot water cleaning is recommended for cleaning tough dirt from hard floors such as tiles and linoleum. It is also recommended for cleaning mirrors and windows, using the special tool.

IMPORTANT: the boiler must never be operated when the tank is empty.

Fit the appliance with the most suitable tool for the type of cleaning being performed.

Turn the selector knob to the detergent position so that the appliance sprays a solution of water and shampoo (fig. V).

Plug the appliance into the mains socket (green light on), press the vacuum (19) and hot water cleaning (22) buttons (red light on) (fig. X). The distinctive pulsating sound emitted by the appliance is part of normal operation. Wait a few moments, then start wet vacuuming. To switch off the appliance, use the white "cleaning off" button (20) and the vacuum button (19).

TIP: in the presence of particularly stubborn dirt, proceed as follows:

- begin by "dry vacuuming", following the instructions shown in the corresponding paragraph;
- prepare the appliance for extraction cleaning and then wash the surfaces as follows:
- turn the selector knob (5) to the water + shampoo position;
- press the hot water button (22) only and use the delivery lever (1) to spray the detergent solution onto the surface being cleaned;
- wait one or two minutes to allow time for the detergent solution to act deeply;
- press the vacuum button (19) and pass over the surface again using the dry vacuum function only (do not use the delivery lever);
- rinse, following the instructions given below.

IMPORTANT WARNING: when resuming hot water extraction cleaning after a pause of a few minutes, you should first spray a small amount of solution away from the surface being cleaned as the appliance may release some steam.

RINSING

After cleaning with detergent, you can rinse. During this phase, the appliance delivers water only so as to completely remove any traces of detergent from the cleaned surfaces.

Rinsing is recommended when detergent residues are particularly hard to remove (as with fabrics).

Rinse using the same tools as employed for extraction cleaning.

Turn the selector knob (5) to the water only position. Plug the appliance into the mains socket and press the vacuum (19) and cold water (21) buttons. Use the same technique as for cleaning (see sec-

tion "Extraction Cleaning Technique".

If the appliance is not used for some time, you are recommended to wash the circuit through using plain water without detergent to avoid accumulations of detergent blocking the pump in the future. Fill the tank with water only, turn the pump on and press the delivery lever for a couple of minutes.

STEAM CLEANING

Steam cleaning is recommended for cleaning and maximum hygiene of non-delicate, non-waxed hard floors (such as tiles or linoleum) and for cleaning windows. Fit the appliance with the most suitable tool for the type of cleaning being performed.

Turn the selector knob (5) to the water only position. Plug the appliance into the mains socket (green light on), press the vacuum (19) and steam (23) buttons (red light flashes) (fig. Y). Wait around two minutes, then clean the surface using the same technique as for extraction cleaning. To switch off the appliance, use the white "cleaning off" button (20) and the vacuum button (19).

STEAM CLEANING TOOLS

(in addition to those already described for extraction cleaning)

Steam tools connector (41)

Enables a greater range of specific steam cleaning tools to be used. Fits directly to the hose handgrip or extension tube (fig. Z).

Lance (42) + brushes (round 43 and in-line 44)

After attaching the lance tool, fit one of the brushes supplied (fig. Z1). The brushes are different colours, so you can reserve each one for a specific purpose (eg. red for the oven, yellow for sanitary fittings, etc).

The "bristles in line" brush is particularly suitable for cleaning joints between tiles.

TIPS

TIP: when the surface to be cleaned is particularly large, the tank in the external unit marked with the water + shampoo symbol can be filled with water only to increase the operating time of the appliance.

IMPORTANT: after use, before putting the appliance away, empty the delivery tube using the delivery lever and then remove the hose and delivery tube.

NB: do not press the extraction cleaning buttons if there is no detergent solution or water in the tanks, or when the appliance is being used as a dry or wet vacuum cleaner. In the event of incorrect use of the pump (function activated and no detergent solution available for more than 15 minutes), a safety device stops pump operation to prevent damage. If this occurs, wait around 30 minutes before starting the appliance again.

WINDOW CLEANING

The squeegee attachment is highly useful for cleaning glazed surfaces.

IMPORTANT: when cleaning windows with hot water or steam in cold weather, first heat the windows with a light jet of hot water or steam, and then use a stronger jet so as to avoid breakages due to sudden changes in temperature.

Attach the tool directly to the handgrip, or if necessary to the extension tubes (fig. Z2). In this case, fit the extension tubes following the usual procedure. Windows can be cleaned with either hot water and detergent or steam. In both cases, proceed as follows: spray the hot water and detergent or steam onto the surface being cleaned, and then dry the glass with the squeegee.

4. CLEANING AND MAINTENANCE

Before carrying out maintenance of any sort, unplug from the mains.

You should always empty, clean and dry the drum each time you use it.

To guarantee hygiene and extend the working life of the appliance, never leave the inside of the drum dirty.

To empty the dirt from the drum, the following must be removed in sequence (fig. N):

- water or water + shampoo selector knob (5);
- delivery tube (16);
- hose coupling (17);
- external tank (6);
- motor unit of the appliance (3).

Use the handle inside the drum to facilitate emptying (fig. O).

In the event of difficulty, first empty the diffuser cone. Remove the steel handle before

extracting (fig. P). As well as removing the diffuser cone, to clean the inside of the drum you should also remove the bottom plate. Replace with care, pushing it down and making sure it rests on the bottom of the drum (fig. Z3).

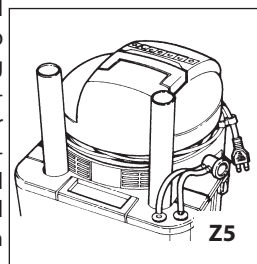
Maintenance of the polyurethane filter (29)

Each time you use the appliance, wash the polyurethane motor filter with running water and dry before using again.

Due to their composition, polyurethane filters deteriorate rapidly if not washed every time.

Replace the microfilters inside the doors on the motor head regularly (fig. Z4).

Check regularly that the float in the motor housing (15) is free to move by raising the head of the appliance and shaking it. To store the appliance, place the tools inside the drum. The extension tubes can be stored between the external tank and the drum. Wind up the cable (making sure it is undamaged and not worn or rubbed) in the special space around the motor head and fasten in place with the clip (fig. Z5).



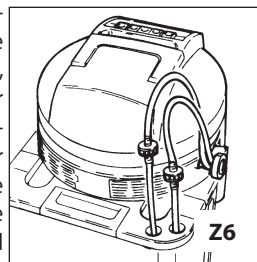
Descaling the steam generator

Descaling should be performed every 8/10 times you steam clean to avoid lime scale building up and affecting operation of the appliance.

Fill a container with one litre of water, pour in 125 ml of descaler (citric acid) and mix briefly.

Remove the liquid intake tubes from the external unit (fig. Z6), connect the selector knob (5) to the coupling on the motor unit (4), connect the tube supplied to the coupling (2) located on the hose handgrip and attach the delivery tube (16) to its connector (14).

Place both the liquid intake tubes and the small tube supplied inside the container with the descaler



solution (fig. Z7). Switch on the appliance by pressing the cold water cleaning button (21) and leave it on for around 30 minutes, keeping the delivery lever (1) pressed using the special clip. Then rinse with water only for a further 10 minutes.

