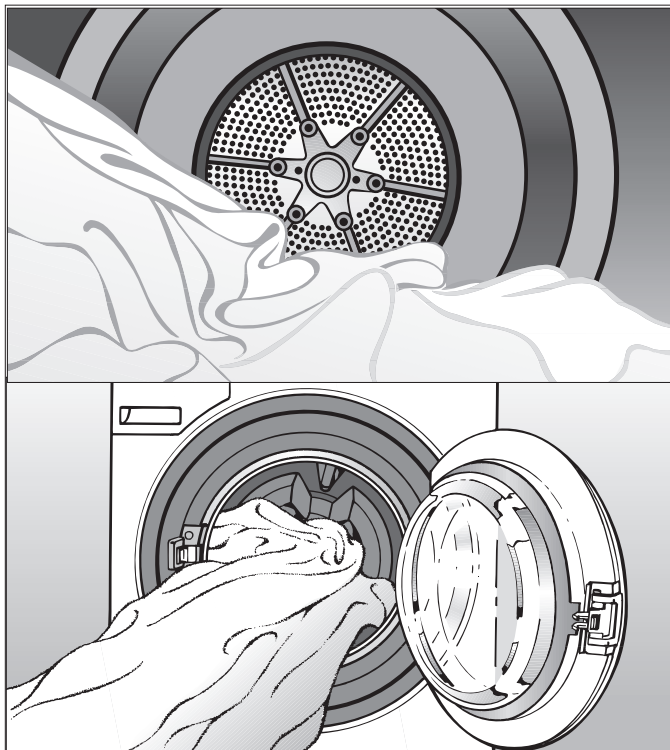


Miele



Operating and Installation Instructions for Washer-Extractor and Tumble Dryer Stack PWT 6089 Vario **INDUSTRIAL USE ONLY**

en - US

To prevent accidents and
machine damage read these
instructions **before**
installation or use.

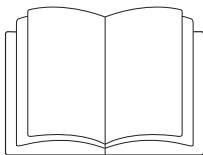
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IMPORTANT SAFETY INSTRUCTIONS



► It is **essential** to read these instructions.

READ AND SAVE THESE INSTRUCTIONS

This tumble dryer is only intended for industrial use and should not be used by anyone who is not specially trained to operate it. This also applies to industrial applications performed in residential environments.

This machine conforms to current safety requirements. However, inappropriate installation and use can lead to personal injury and property damage. Read the operating and installation instructions carefully before using this machine.

All personnel working with this machine must be fully trained in all aspects of its use and safety

Keep these instructions in a safe place and ensure that they are made available to new users. They must be made aware of these **IMPORTANT SAFETY INSTRUCTIONS**. Pass these instructions on to any future users/owners of the machines.

Intended use

► Only use the washer-extractor to wash items which are specified by the manufacturer to be machine-washable on the wash-care label, and textiles composed of hand-washable wool or wool blend fabrics as well as satin, lace, silk and other hand-washable garments. The tumble dryer must only be used for drying fabrics which are marked on the manufacturer's care label as being suitable for tumble drying. Any other applications may be dangerous. The manufacturer cannot be held liable for damage resulting from incorrect or improper use or operation.

► The washer-extractor and tumble dryer stack must be used as described in these instructions and must be checked on a regular basis to make sure it is functioning correctly. Maintenance must be carried out when necessary.

► The appliance stack is suitable for indoor use only.

► This appliance stack is not intended for use by people with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they are supervised while using it or have been shown how to use it by a person responsible for their safety.

IMPORTANT SAFETY INSTRUCTIONS

► Keep children away from the appliance stack at all times. It is not a toy! To avoid the risk of injury do not allow children to play on or near it or to play with its controls. Supervise its use by the elderly or infirm, and supervise children while you are using it.

► It is the operator's responsibility to ensure that the standard of disinfection in thermal as well as chemo thermal procedures is maintained (in accordance with national health and safety regulations) by carrying out suitable validation tests. Disinfection programs must not be interrupted, as this can have a limiting effect on the disinfection result.

► If the appliance stack is used in a publically accessible room, it is the supervisor's responsibility to ensure that suitable measures are in place which enable operators to use it safely.

IMPORTANT SAFETY INSTRUCTIONS

Technical safety

► Before setting up the appliance stack, check it for any externally visible damage.

Do not install or use a damaged appliance.

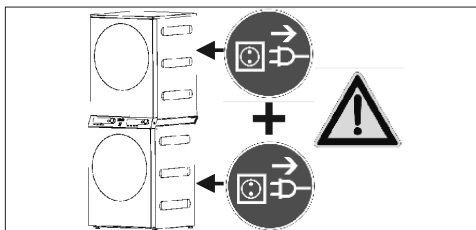
► The electrical safety of this appliance stack can only be guaranteed when it is correctly earthed. It is most important that this basic safety requirement is observed and regularly tested, and where there is any doubt the on-site wiring system should be inspected by a qualified electrician. The manufacturer cannot be held liable for the consequences of an inadequate earthing system (e.g. electric shock).

► Unauthorized repairs could result in unforeseen dangers for the user, for which the manufacturer cannot accept liability. Repairs should only be undertaken by a Miele service technician. If this is not done, any resultant damage will not be covered by the guarantee.

► Do not make any alterations to the appliance stack, unless authorized to do so by Miele.

► To ensure the correct performance of the appliances and to prevent the risk of faults and fire, it is important to check it and carry out maintenance on a regular basis.

► This washer-extractor and tumble dryer stack must only be connected to the on-site water supply using a hose that is in good condition. Old hoses must not be re-used. Check the hose regularly for signs of wear. Change in good time to avoid the risk of leaks and subsequent damage.



► In the event of a fault or for cleaning purposes, the appliance is only completely isolated from the electricity supply when:

- the connection plugs on the washer-extractor and on the tumble dryer have been withdrawn, or
- the on-site fuse has been disabled for both the washer-extractor and tumble dryer, or
- the screw-out fuse has been disabled for both the washer-extractor and the tumble dryer (in countries where this is applicable).

► Faulty components must only be replaced by genuine Miele original spare parts. Only when these parts are fitted can the safety standards of the appliance be guaranteed.

► Do not use force to open the washer-extractor drum door. The door handle is fitted with a safety device to ensure that the door lock functions correctly.

IMPORTANT SAFETY INSTRUCTIONS

- ▶ This appliance stack is intended for stationary use only.
- ▶ If this appliance stack is being used in a commercial environment please ensure that all relevant health and safety regulations are obeyed.

IMPORTANT SAFETY INSTRUCTIONS

Correct use

- ▶ Do not install the appliance stack in a room where there is a risk of frost occurring. Frozen hoses may burst or split. The reliability of the control unit may be impaired at temperatures below freezing point.
- ▶ Always keep the area around the appliance stack free of dust and lint. Dust drawn into the appliances can cause blockages over time. Faults can then occur as well as the risk of fire.
- ▶ Before using the washer-extractor and tumble dryer stack for the first time, check that the transit bars at the rear of the washer-extractor have been removed (see section on "Installation and connection"). During spinning, a transit bar which is still in place may result in damage to both the appliance stack and adjacent furniture or appliances.
- ▶ Turn off the water supply if the appliance is to be left for any length of time (e.g. vacation), especially if there is no floor drain (gully) in the immediate vicinity.
- ▶ Flooding danger.
If hooking the drain hose into a wash basin, check that the water can drain off quickly enough to prevent the sink from overflowing. Make sure the drain hose is secure, so that the force of the water flowing out of the hose does not dislodge it.
- ▶ Take care to ensure that foreign objects (e.g. nails, pins, coins, paper clips) do not find their way into the washer-extractor with the laundry. It is particularly important to ensure that items are free of any metal filings which may be hidden in them. These may damage components of the washer-extractor (e.g. suds container, drum), which in turn can result in damage to the laundry.
- ▶ If the correct amount of detergent is dispensed, the washer-extractor should not need to be descaled. If, however, you do wish to descale it, only use proprietary non-corrosive descaling agents and strictly observe the instructions on the packaging. A special descaling agent is available to order from Miele. Follow the instructions for use on the packaging carefully.
- ▶ Textiles which have been pre-treated in solvent based cleaning agents must be thoroughly rinsed in clean water before being washed in the washer-extractor.
- ▶ Never use solvent based cleaning agents (e.g. those containing benzene) in the washer-extractor, as this may result in damage to component parts and create toxic fumes. Such agents also pose a fire and explosion hazard.
- ▶ Benzene, petrol, paraffin or any easily flammable liquid must not be stored or used near the appliance stack. Fire and explosion risk.

IMPORTANT SAFETY INSTRUCTIONS

► Only use dyes specified by the manufacturer as being suitable for use in a washing machine. Always observe the manufacturer's instructions carefully.

► Dye removers contain sulphur compounds which can cause damage such as corrosion. Do not use these products in the washer-extractor.

► Avoid contact of stainless steel surfaces (front, lid, casing) with liquid cleaning and disinfecting agents which contain chlorine or sodium hypochlorite. These agents can have a corrosive effect on stainless steel. Chlorine bleach is aggressive and corrosive, do not store open containers of these agents near the appliance.

► Do not use a pressure washer or hose to clean the appliance stack.

► It is particularly important to observe manufacturer's instructions when using a combination of cleaning agents and special application products. Only use the product for the application described by the manufacturer to avoid any material damage or the occurrence of strong chemical reactions.

► The tumble dryer must only be used when it is connected to a suitable ducting system. The installation site must be adequately ventilated.

► The ducting must not be connected to

- a chimney or vent flue which is in use,
- or to ducting which ventilates rooms with fireplaces,
- or to chimneys being used by other appliances.

Smoke or exhaust fumes can cause poisoning.

► The lint filter must be cleaned regularly.

► The dryer must not be used without the lint filter in place or if the lint filter is damaged in any way. Damaged filters can cause operational faults and blockages in the airways, the heating elements and in the ducting. Fire hazard!

In the event of a damaged filter, switch the dryer off and replace the filter with a new one.

► Check all parts of the extraction system on a regular basis (e.g. wall vent, external grille, bends in the ducting etc.) and make sure they are all free of any hindrance. A build-up of lint will prevent a free flow of air through the system. If the dryer is to be connected to an existing ducting system, this must be checked for suitability beforehand.

IMPORTANT SAFETY INSTRUCTIONS

► Adequate ventilation is essential **to avoid the danger of asphyxia and toxic fumes** where another appliance which also uses the room air (e.g. gas, oil or coal fired heater, continuous flow or other water heater) is installed in the same or an adjacent room.

To ensure safe operation, and to prevent gases given off by these appliances being drawn back into the room, an underpressure of 4 Pa is the maximum permissible.

Ventilation can be maintained by:

- air inlets in the external wall which cannot be closed or blocked, or
- by fitting a window contact switch which ensures that the appliance can only be operated when the window is open.

If in doubt, the advice of a competent builder must be sought.

► If more than one tumble dryer is being installed using a joint ducting system, each dryer must have its own non-return flap to the joint ducting system.

Otherwise the dryers could be damaged, endangering their electrical safety.

► Do not allow air contaminated with chlorine, fluorine or other vapours containing solvents to get into the tumble dryer stack. Fire hazard.

► To prevent the risk of fire, the following textiles must not be dried in this appliance:

- items which have not been washed.
- items, such as workwear, which have not been thoroughly cleaned and which are still soiled with grease, oil or other deposits (such as cosmetics, lotions etc).
If items have not been thoroughly cleaned there is a danger that these might ignite when heated, even after they have been removed from the dryer at the end of the program.
- items which have been treated with inflammable cleaning agents or contain residues of acetone, alcohol, benzene, petrol, stain remover, turpentine, wax, wax remover or other chemicals (e.g. mops and floor cloths).
- items which have been splashed with hair lacquer, hair spray, nail varnish remover or similar substances.

When washing such heavily soiled items ensure that you use sufficient detergent and select a high temperature. If in doubt, wash the items several times.

IMPORTANT SAFETY INSTRUCTIONS

► To prevent the risk of fire, the following must not be tumble dried:

- items which have been cleaned using chemicals (e.g. professional dry-cleaning agents).
- fabrics which contain a large proportion of rubber, foam rubber or rubber-like materials. For example, products made from latex foam rubber, shower caps, waterproof textiles and items of clothing and pillows with foam rubber filling.
- damaged items which contain padding or fillings (e.g. pillows, jackets). When damaged, the filling can get out with the risk of igniting in the dryer.

► In many program, the heating phase is followed by a cooling down phase to ensure that the items are not too hot to handle when you remove them (this also avoids the danger of the laundry self-igniting). The program is not finished until the cooling down phase has been completed.

Ensure that you always wait until the end of the program before removing the laundry.

► **Warning:** Do not switch the appliance off before the end of the drying program. If this was done and the laundry was then removed immediately it could give off a great amount of heat.

► Fabric softener and similar products must be used according to the instructions on the manufacturer's packaging.

IMPORTANT SAFETY INSTRUCTIONS

Chlorine and component damage

Notes on using chlorine bleach and perchlorethylene

► Frequent use of chlorine increases the risk of component damage.

The use of agents containing chlorine, such as sodium hypochlorite and chlorine bleach in powder form, can damage the protective upper surface of stainless steel and cause corrosion to components. Factors affecting this are chlorine concentration levels, contact time and temperature. It is therefore advisable to avoid the use of such agents. Oxygen based bleaching agents should be used instead.

If, however, chlorine based bleaching agents have to be used for particular types of soiling, then anti-chlorine measures must also be carried out. If this is not done irreparable damage can occur to components in the machine and to laundry.

Anti-chlorine treatment

Anti-chlorine treatment has to be carried out immediately after chlorine bleach has been used. The use of hydrogen peroxide or an oxygen based cleaning or bleaching agent is recommended and the laundry should not be drained in between.

With thiosulfate, especially when used with hard water, gypsum can form, which can lead to incrustations on laundry or deposits in the machine. The use of hydrogen peroxide is preferable as it aids the chlorine neutralizing process. The exact quantity of additives and the treatment temperatures required must be set and tested on site in accordance with the dosage recommendations of the detergent and additive manufacturers. The laundry must also be tested to check whether it contains any active chlorine residues.

IMPORTANT SAFETY INSTRUCTIONS

Accessories

► Accessory parts may only be fitted when expressly approved by Miele. If other parts are used, guarantee, performance and product liability claims will be invalidated.

Disposing of your old appliance

► Before disposing of an old washer-dryer and tumble dryer stack, disable the washer-extractor door lock. This way you will prevent children from accidentally locking themselves in and endangering their lives.

Miele cannot be held liable for damage caused by non-compliance with these Warning and Safety instructions.

Disposal of the packing material

The transport and protective packing has been selected from materials which are environmentally friendly for disposal and should be recycled.

Ensure that any plastic wrappings, bags etc. are disposed of safely and kept out of the reach of babies and young children. Danger of suffocation.

Disposing of your old appliance

Electrical and electronic appliances often contain materials which, if handled or disposed of incorrectly, could be potentially hazardous to human health and to the environment. They are, however, essential for the correct functioning of your machine. Please do not therefore dispose of it with your general waste.

Please dispose of it at your local community waste collection / recycling centre. Ensure that it presents no danger to children while being stored for disposal.

Energy saving tips

Energy and water consumption

- Water consumption and energy usage are determined by the size of the load.

To make the most out of your appliance, load the maximum amount for the washing or drying program you are using.

Detergent

- Do not exceed the amounts of detergent recommended by the manufacturer on the packaging.
- Reduce the amount of detergent for smaller loads.

To avoid unnecessarily long drying times and high consumption of energy:

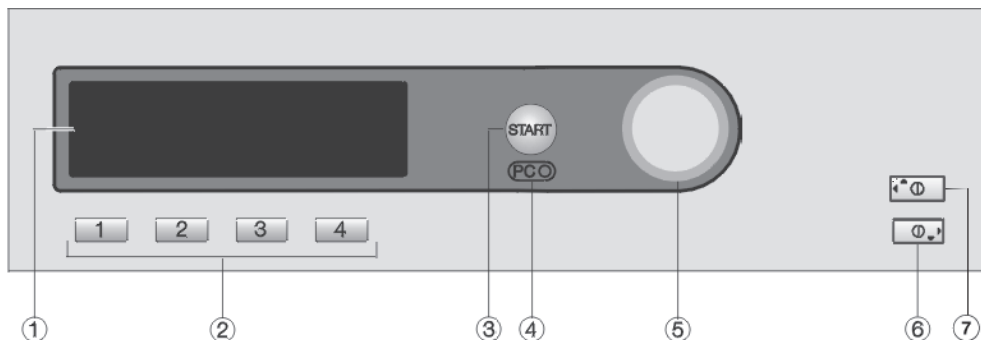
- Make sure that your laundry is thoroughly spun before drying. The higher the spin, the greater the savings that can be made in energy and time during drying.
- Make sure the room in which the dryer is located is well ventilated.
- Remove the lint from the filter when necessary (see "Cleaning and Care").
- Check all parts of the ventilation system on a regular basis, and remove any build-up of lint etc.

The vent ducting should be as short, straight and smooth as possible to minimise any resistance to the air throughflow.

Operating the washer-extractor and tumble dryer stack

Control panel

Right-hand side for the washer-extractor, left-hand side for the tumble dryer



① Display

See the following pages for more information.

② Short cut buttons

For selecting an individual program quickly. These buttons can be programmed to select your own favorite programs.

③ Start button

④ Optical interface PC

This is used by service technicians to run diagnostic checks on your appliance.

⑤ Jog shuttle

This is used to select menu options (by turning it) and to confirm your selection (by pressing it).

⑥ On-Off button ①, washer-extractor

⑦ On-Off button ①, tumble dryer

Before using for the first time

Ensure that it is correctly installed and connected. See "Installation and connection". Also check that the drain filter on the washer-extractor is securely tightened to prevent the risk of leaks during use.


Commission the appliance as described in the separate booklet "Commissioning, program chart and Settings" supplied.

Operating the washer-extractor and tumble dryer stack

Display

Entry menu

Washer-extractor display:

1	Cottons Uni.	60°C	Program selection...
2	Minimum iron	40°C	Settings ▸...
3	Delicates	40°C	
4	Woollens 	30°C	10:00

Tumble dryer display:

1	Cottons	Program selection ...
2	Minimum iron	Settings ▸ ...
3	Woollens handcare	
4	Smoothing	10:00

When switched on, the entry menu (with four favorite programs listed) appears in the display and *Program selection* is highlighted.

Jog shuttle

Turning the jog shuttle moves the highlighting to the next option.

Pressing the jog shuttle selects the highlighted option.

Shortcut buttons

Pressing a shortcut button selects one of the four favorite programs shown on the left of the display.

If you wish to change the programs shown in this list you can do so (see "Saving a program as a favorite" for more information).

The shortcut buttons have different functions in the other menus. Where this is the case, an arrow ▼ will appear in the display above the shortcut button, together with a description of its function.

Operating the washer-extractor and tumble dryer stack

Program selection

There are two ways of selecting a program:

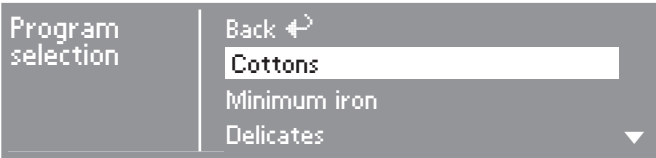
- Option 1: Select the *Program selection* menu in the display and confirm your selection by pressing the jog shuttle.
- Option 2: Press shortcut button [1], [2], [3] or [4]. This will automatically take you into the main menu for that program.

Program selection menu

Washer-extractor display:



Tumble dryer display:



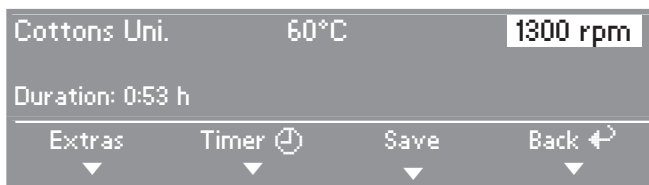
You can use the jog shuttle to select any program. The highlighting will move up or down depending on the direction in which the jog shuttle is turned.

The ▼▲ arrows on the right of the display, indicate further options.

Pressing the jog shuttle takes you to the main menu of the program selected.

Operating the washer-extractor and tumble dryer stack

Wash program main menu



Turn the jog shuttle to highlight program, temperature or spin speed. Pressing the jog shuttle selects the highlighted option and opens the relevant sub-menu.

The sub-menus *Extras* and *Timer* can be accessed by pressing the shortcut button directly below them.

To go back to the entry menu press shortcut button 4 below the word *Back*.

Alternatively, you can also highlight and confirm all options by just using the jog shuttle.

Drying program main menu



- Turn the jog shuttle to highlight either the "Drying level" or the "Program".
- Pressing the jog shuttle selects the highlighted option and opens the relevant sub-menu.
- *Low temperature* and *Timer* can be selected by pressing short cut buttons 1 or 2.
- To return to the entry menu press short cut button 4.

Alternatively, you can also highlight and confirm all options by just using the jog shuttle.





Operating the washer-extractor and tumble dryer stack

Settings menu

The *Settings* menu is used to alter the electronics of the washer-extractor and tumble dryer stack to suit different requirements. See the relevant section of the separate washer-extractor or tumble dryer "Commissioning, Program chart and Settings" booklet for further information on how to alter settings.


Operating the appliance wash-salon mode

The entry menu will vary depending on the *Controls* setting selected.

The machine is operated either with the shortcut buttons , , ,  or the jog shuttle.

WS shortcut keys, basic

Washer-extractor display:

1	Cottons Uni.	60°C
2	Minimum iron	40°C
3	Delicates	40°C
4	Woollens 	30°C

Tumble dryer display:

1	Cottons	Normal+
2	Minimum iron	Normal
3	Woollens handcare	
4	Cool air	

4 programs are available to choose from. To specify which programs are available go to the *Settings/supervisor level* menu.

Operating the washer-extractor and tumble dryer stack

WS shortcut keys + Logo

Washer-extractor display:



12 programs are available to choose from. To specify which programs are available go to the *Settings/supervisor level* menu.

WS shortcut keys + Logo

Tumble dryer display:



12 sensor drying and timed programs are available to choose from. To specify which programs are available go to the *Settings/supervisor level* menu.

WS shortcut keys, ex/int time.

Tumble dryer display:



4 timed programs with different temperature levels are available to choose from. To specify which programs are available, go to the *Settings/supervisor level* menu.

Notes and tips on laundry care

1. Sort the laundry for washing


Sorting laundry

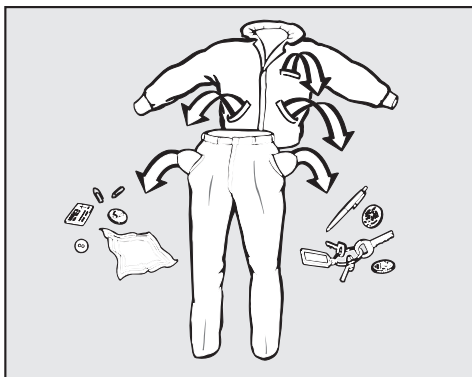
- Sort the laundry by color and by care label. Most garments have a textile care label in the collar or side seam.

Dark textiles often contain excess dye and should be washed separately several times before being included in a mixed load. Always wash whites and darks separately.


General tips

- Curtains: Remove lead weights first or place in a laundry bag.
- Underwiring and collar stiffeners: Any loose wiring in bras, shirt collar stiffeners, etc. should be removed or sewn in.
- Knitted garments, trousers and jeans, T-shirts and sweat shirts - turn inside out, if recommended by the manufacturer.
- Close any zippers, fasten hooks and eyes etc before washing.
- Fasten duvet covers, pillow cases etc. to prevent small items from being rolled up inside them.
- See "Program chart" in separate booklet supplied for further tips.

Do not wash any items in the washer-extractor which are specified by the manufacturer as **not washable** on the care label ( symbol).




- Empty all pockets.

 Foreign objects (e.g. nails, coins, paper clips, etc.) can cause damage to textiles and to components in the washer-extractor.

Removing marks

- Badly soiled areas with e.g. blood, egg, coffee, tea can be pre-treated and should be cleaned as soon as possible, preferably while still fresh. Spillages should be carefully dabbed off using a soft cloth. Do not rub.

Badly soiled areas can be pre-treated with liquid detergent, stain removers etc. first, following the manufacturer's instructions. With particularly stubborn stains ask Miele or your detergent manufacturer for advice .

 Do not use solvent-based cleaning agents in the washer-extractor.

2. Load the washer-extractor drum


- Switch the washer-extractor on with the On/Off button ①.
- To open the drum door pull on the handle.

Do not use force as it is fitted with a safety device to prevent it being opened by mistake. Forcing the door handle can cause damage to the locking mechanism (see "Problem solving guide, The door will not open").

- Unfold the laundry and load loosely into the drum. Mixing both large and small items gives better wash results and also helps distribute the load evenly during spinning.

The most efficient use of energy and water is achieved when a full load is washed. However, do not overload as this causes creases and reduces cleaning efficiency.

- Close the drum door. Press the door firmly to shut it and then lock the handle in position. Do not slam the drum door.

 Make sure that no items are caught between the door and the drum.

3. Select a program

- Select the most appropriate program for the load being washed.

See "Program chart" in the separate booklet supplied for details of which programs are available.

Wash care label symbols

Washing	
The number shown in the bucket is the maximum temperature the garment can be washed at. The number of bars under the symbol indicate the level of agitation permitted.	
	No bar under the symbol: = normal agitation
	One bar under the symbol: = reduced agitation
	Two bars under the symbol: = much reduced agitation
	Hand wash (if no temperature is specified use the lowest temperature or cold)
	Do not wash

Drying	
The number of dots indicates the drying temperature	
	Normal temperature
	Low temperature
	Do not tumble dry

Ironing	
The number of dots indicates the ironing temperature	
	Hot iron (max sole plate temp. approx. 392°F/200°C)
	Medium hot iron (max sole plate temp. approx. 302°F/150°C)
	Cool iron (max sole plate temp. approx. 230°F/110°C). Do not steam iron garments carrying this symbol.
	Do not iron

Professional cleaning	
	Dry clean only. The letters indicate the type of cleaning agent required.
	Professional Wet Clean only
	Do not dry clean

Bleaching	
	Any oxidizing bleaching agent can be used
	Only use an oxygen based bleach or a non-chlorine bleach
	Do not bleach


1. Sort the laundry for drying


Before drying


- Wash heavily soiled items very thoroughly, ensuring that you use sufficient detergent and select a high temperature. If in doubt, wash the items several times.
- Do not put soaking wet items into the tumble dryer. Make sure that your laundry is thoroughly spun before drying.
The higher the spin, the greater the savings that can be made in energy and time during drying.
- New dark garments should be washed and dried separately from light-colored garments the first few times, to avoid the risk of color running and discoloring other garments or even the plastic components in the dryer.
Dark fibers can also settle on light garments and vice versa.
- Starched laundry can be dried in the tumble dryer. To achieve the usual finish, double the amount of starch should be used.
- Check the seams of padded or down-filled items to prevent the risk of fillings coming out. These could catch fire in the tumble dryer.
- Tie together textile belts and apron ties to stop them getting tangled.
- Fasten duvet covers etc. to prevent small items from being trapped inside them. Fasten hooks and eyes.
- Stitch in or remove loose underwiring from bras.
- Leave jackets open and undo any long zippers so that textiles dry evenly.
- For an even drying result, it is important to . . .
 - . . . spin,
 - . . . shake out,
 - . . . and sort items according to fabric type, size, care label and the drying level required.

Wash care label symbols

2. Load the tumble dryer

 Using the tumble dryer incorrectly could cause a fire. Read the "IMPORTANT SAFETY INSTRUCTIONS" before using the dryer.


 Make sure that objects, e.g. detergent dispensing balls, have been removed from the laundry. They could melt and cause damage to the dryer or the laundry.

- Do not overload the drum. Overloading can cause unnecessary wear and tear to the laundry, give a disappointing drying result and cause more creasing.
- To save energy, always observe the maximum load for each program (see the separate booklet "Commissioning, Program chart and Settings").
- Minimum iron fabrics tend to crease more the greater the load. This is also the case for garments made from very fine weave fabrics, such as shirts or blouses. If necessary, reduce the size of the load for these types of fabrics.
- ... e.g. *Machine iron* or *Hand iron* if the laundry needs to be ironed after drying. See separate booklet "Commissioning, Program chart and Settling".
- For delicate fabrics with the  care label, select *Low temperature* as well.
- Down-filled garments have linings which have a tendency to shrink, depending on the quality of the item. They can be partially dried using the *Smoothing* program.
- Pure linen items should only be machine dried if specified as suitable by the manufacturer on the care label, as the surface of the fabric may otherwise become rough. They can be partially dried using the *Smoothing* program.
- Woollens and wool blends tend to become matted and shrink if dried in a tumble dryer. Only dry these fabrics in the Woollens handcare program.
- Loopknit garments (e.g. T-shirts and underwear) tend to shrink depending on their quality. Do not over-dry. When purchasing these garments it is advisable to take their shrinkage properties into account.

3. Select a program

- On many programs, different drying levels can be selected depending on individual requirements
... e.g. *Normal+* for laundry that you want to fold and put away immediately after drying.

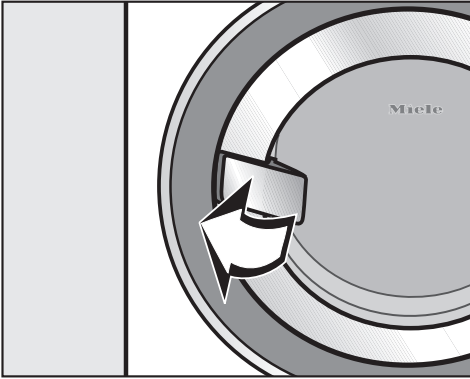
Short washing instructions

 It is very important to read the "Notes and tips on laundry care" section before proceeding.

❶ Sort the laundry

❷ Load the washer-extractor drum

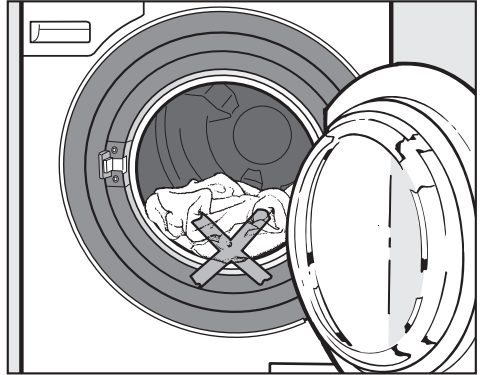
- Switch on the washer-extractor.




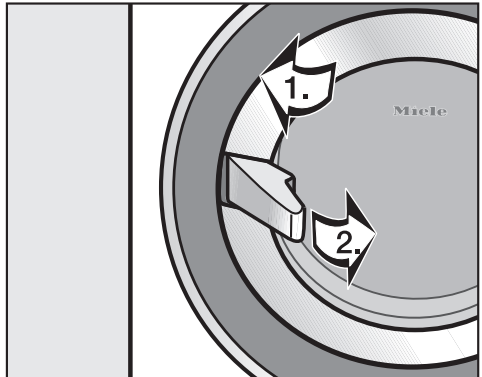
- Open the drum door with the handle.



- Unfold the laundry and load loosely into the drum.



 Make sure that no items are caught between the door and the drum.



- Close the drum door.

1. Push the door shut.

2 Then lock the handle in position.

Short washing instructions

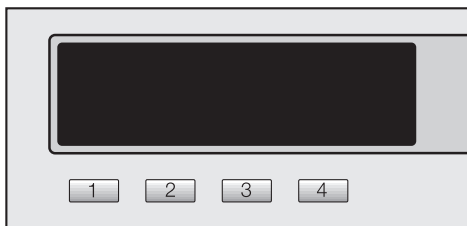
③ Select a program

Program descriptions

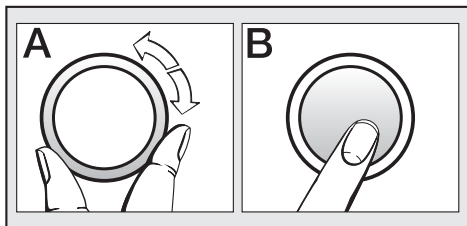
- See separate booklet "Commissioning, Program chart and Settings".

You can select a program either by:

- Using the appropriate short cut button to select one of the four programs listed in the display ("Favorites"), or



- Select the program you require from the *Program selection* menu.



- If required, you can then select any Extras and/or *Timer* for Delay start from the relevant sub-menu.

Payment system

If your machine is connected to a payment system, the amount of credit required will appear in the display.

If a program is cancelled after it has started you can lose your credit (depending on how the washer-extractor was set up).

Short washing instructions

④ Adding detergent

Use detergent according to the laundry soiling and water hardness.

Too little detergent may cause:

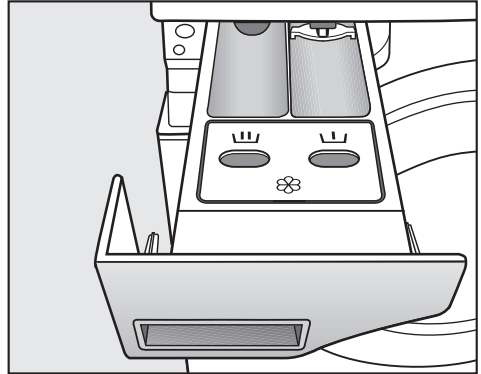
- Laundry not getting properly clean, and with time may become grey and hard to the touch.
- Greasy particles clinging to laundry.
- Limescale deposits on the heater elements.

Too much detergent may cause:


- Over sudsing with minimal drum movement; poor wash, rinse and spin results.
- Higher environmental burden.

See "Detergent" for more information.

This machine is set up for connection to an external dispensing system for dispensing liquid agents (see "Detergent - External dispensing system").



- Pull out the detergent drawer and add detergent to the compartments as follows:



 = Detergent for the pre-wash ($\frac{1}{4}$ of the total recommended amount of detergent)

 = Detergent for the main wash

 = Fabric softener or liquid starch

- Close the detergent drawer.

The detergent drawer must not be opened during a program. It must remain closed while the machine is in use.

The  compartment is not used during disinfection programs. Do not put anything in the  compartment.

Short washing instructions

⑤ Starting a program

"Start" flashes when a program can be started.




- Press the "Start" button.

The "Start" button lights.

The display shows the approximate program run time. It will count down in minutes. In the first 10 minutes the washer calculates the water absorbency of the laundry. The overall program time may be shortened or lengthened.

Additionally the sequence cycle is displayed. The washer shows the current program step.

Press one of the following direct select buttons during the running program:

- Button  "Extras" can be used to select or de-select extras.
- Button  "Timer" the time of day and the approximate program end is displayed.
- Button  "Cancel" to cancel the currently running program. The wash water will be drained away.

⑥ At the end of a program

"Finish" will appear in the display.

- Open the drum door.
- Remove the laundry.


Check the drum for any missed pieces of laundry. Items inadvertently left in the washer may get damaged (e.g. shrink or discolor) during the next wash cycle.

- Close the drum door. Otherwise foreign objects may find their way into the drum. These could be inadvertently washed and cause damage to laundry.
- Turn the machine off using the "On/Off" button.

Selecting a washing program

Selecting/changing a program

Entry menu

1	Cottons Uni.	60°C	Program selection...
2	Minimum iron	40°C	Settings ▸...
3	Delicates	40°C	
4	Woollens 	30°C	15:00

- Press short cut button 1.

Main menu

Cottons Uni.	60°C	1300 rpm
Duration: 0:53 h		
Extras ▼	Timer ⌚ ▼	Back ↶ ▼

- By turning the jog shuttle you can then highlight the following options in the display: Program, Temperature or Spin speed and confirm your selection by pressing the jog shuttle.

Depending on the option highlighted, the following will be displayed:

– Program selection

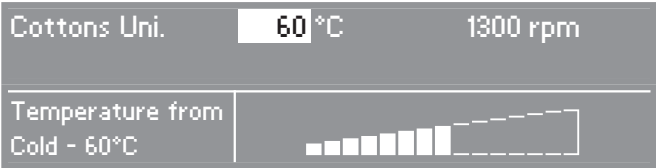
Program selection	Back ↶
	Cottons Hygiene
	Cottons Uni.
	Minimum iron ▼

- Use the jog shuttle to select the program you want, and confirm your selection. The main menu will reappear.

Selecting a washing program

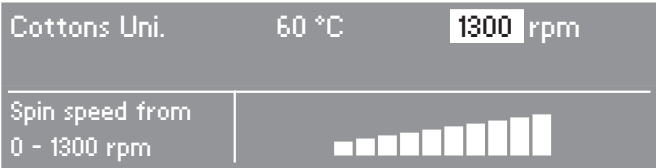
Note: If you do not make a selection in the sub-menu within approx. 15 seconds, the display will revert to the main menu.

– Temperature selection



- Use the jog shuttle to select the temperature you want and confirm your selection. The main menu will reappear.

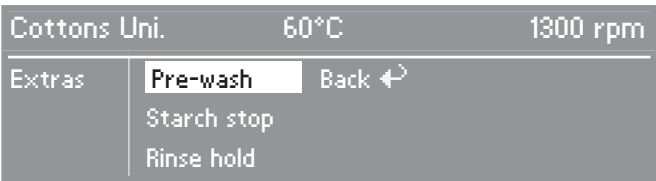
– Spin speed selection



- Use the jog shuttle to select the spin speed you want and confirm your selection. The main menu will reappear.

Select an extra option(s)

- Press short cut button . This opens the *Extras* sub-menu.



- Use the jog shuttle to select the Extra you want and confirm your selection. The main menu will reappear. Repeat the process if you want to select another extra. See "Extras" for more information.

Selecting a washing program

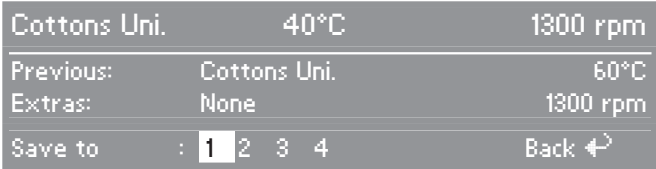
Saving a program as a favorite

You can program the short cut buttons to call up the four wash programs you use most frequently. The *Save* option must be activated via the *Settings/Supervisor level* menu before the short cut buttons can be programd.



- Press short cut button 3.

Selecting a short cut button



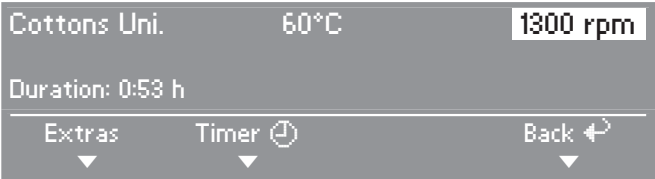
- Use the jog shuttle to select the number you want to save the program to, and confirm your selection. Your settings have now been saved and the favorite program will appear in the entry menu.

Repeat the procedure if you want to customize other favorite programs, and save them to short cut button which have not yet been used.

Extras

You can use the *Extras* option to augment the basic wash programs.

To open the Extras sub-menu



- Press short cut button . This opens the *Extras* sub-menu.

Select an Extra option(s)



- Use the jog shuttle to select the Extra you want and confirm your selection.
 - Repeat the process if you want to select another Extra.
 - A tick will appear to show that an Extra has been selected.

Pre-wash

For laundry with large amounts of dirt (e.g. dust, sand).

Starch stop

Water is drained out of the machine before the last rinse and the program stops.

The program can be continued once starch has been added to the laundry in the drum. For more information about this see "Detergent - Adding starch separately".

Rinse hold

The laundry is not spun after the last rinse and remains suspended in the final rinse water. This reduces creasing if the laundry is not going to be removed from the drum immediately after the end of the program.

Intensive*

For heavy soiling or where staining is visible.

The duration of the main wash and of the rinses is increased.

Water plus*

The machine is set at the factory so that the water level in the main wash and rinses will be increased if the Water plus extra option is selected.

However, you can select other settings for *Water plus*. See the separate booklet "Commissioning, Program chart and Settings" supplied with the machine for details under "*Settings/Supervisor level*".

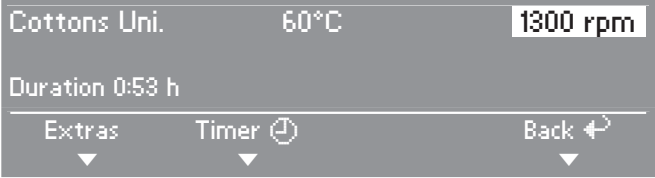
**Intensive* and *Water plus* have to be set in the *Settings/Supervisor level* menu, as described in the booklet "Commissioning, Program chart and Settings".

Any extras that are available for a program will be listed in the Extras sub-menu. If an extra is not displayed, it is not available for use with the program selected.

Timer

The timer option allows you to select the program end time. The program start can be delayed from 30 minutes to 24 hours.

Select the submenu Timer



- Press the direct select button **[2]**. The "Timer" menu appears.

Selecting a Delay start time

The program end can be selected in 30 minute increments.



- Select the desired program end time with the jog shuttle and confirm. The program end time is adjusted to the next full or half hour. The program start will be delayed according to the desired program end time.

Starting the Timer

- Press the "Start" button.

The elapsed timer time is displayed and will count down in minutes.

Canceling the Timer

- The Timer can be canceled with the direct select button **[4]**.

The actual load size can only be determined accurately by the machine once the program has started. This can cause the finish time for the program to vary.

Maximum final spin speed

The maximum final spin speed will depend on the program chosen.

You can reduce the final spin speed. However, you cannot select a final spin speed higher than that permitted for the program selected.

Rinse and interim spin

There is a spin after the main wash and between the rinses. A reduction in the final spin speed will also reduce the interim spin speed.

To omit the final spin (Rinse hold)

- Select *Rinse hold* from the *Extras* sub-menu. The laundry will not be spun and will remain suspended in the final rinse water. This reduces creasing if the laundry is not going to be removed from the drum immediately after the end of the program.
- To start the final spin:
 - The Spin speed is highlighted in the display.
- Start the final spin by pressing the Start button.
- You can alter the spin speed.
- Press the jog shuttle and change the spin speed shown.
- Then confirm your choice. The spin will start straight away.
- To end the program:
- Press short cut button 4 *Cancel*. The water will drain away.
- Open the drum door.

To omit the spin between rinses and the final spin

- Select *Without spin* from the Spin speed sub-menu. The water will be pumped away after the last rinse cycle.

Changing the program sequence

Payment system

Credit will be lost if the program canceled after it has started.

Interrupting a program

You can interrupt a program which is in operation at any time.

- Switch the washer-extractor off with the ① button.

To continue with the same program:

- Switch the washer-extractor back on again with the ① button.
- Confirm the message shown in the display and press the *Start* button.

Canceling a program

You can cancel a program at any time after it has started:

- Press short cut button 4 *Cancel*.

The suds will be pumped away.

- Open the drum door before starting a new program.

Changing a program

- After starting a program you can change the spin speed at any time up until the final spin commences and you can select or deselect the *Starch stop* and *Rinse hold* extras.
- You can change the temperature and select or deselect the *Intensive* and *Water plus* options during the first 5 minutes of a program.

You will not be able to change or cancel the program or open the door if:

- a Disinfection program is running.
- A payment system is connected to the machine (depending on setting it may be possible to cancel a program. See Settings *Coin mechanism lock*).

Detergent dispensing

Please follow the detergent manufacturer's instructions.

Only use laundry detergent formulated for front loading washing machines.

For wool and wool blend fabrics use a detergent formulated for wools.

Follow instructions on the detergent packaging for the correct use and amount of detergent.

The amount of detergent used depends on the level of soiling:

Light soiling

No soiling or stains are visible

Normal soiling

Some visible soiling or a few light stains

Heavy soiling

Very visible soiling or stains

The size of the load and the water hardness level in your area have an impact on the amount of detergent necessary to obtain optimum wash results. If you do not know the water hardness level in your area, contact your local water authority.

Water hardness

Hardness level	Water quality	Water hardness in gpg	Water hardness in mmol/l
I	soft	0 - 7	0 - 1.3
II	moderate	7 - 14	1.3 - 2.5
III	hard to very hard	over 14	over 2.5


Water softener

If the water hardness level is between II and III, you can soften the water to reduce detergent consumption.

The detergent packaging should indicate the correct amount to use in your machine. Add the detergent, then add the water softener. From then on you can then use the recommended amount of detergent for water hardness level I.

Detergent

Washing with several components

If you wash using several components (e.g. special application detergents), it is recommended to dispense the agents into compartment  in the following order:

1. Detergent
2. Water softeners
3. Stain remover

This will allow the agents to distribute more evenly.

Dye removers / Fabric dyes

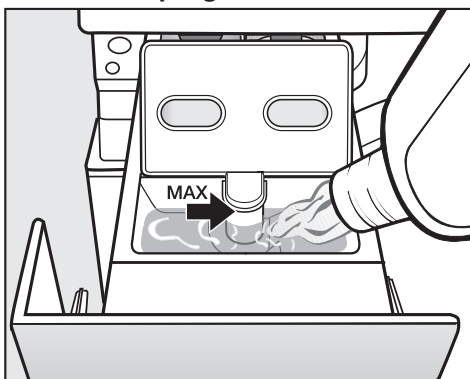
Do not use dye removers in this washer.

- When dying fabrics in the washer, adhere to the manufacturer's instructions.

Fabric softeners, liquid starch and starch formulations

- Dispense according to the amount specified on the packaging.

Automatic dispensing of fabric softener or liquid starch to laundry at the end of a program



- Add the fabric softener or liquid starch to compartment ☼. **Do not exceed the maximum level mark.**

It will be automatically dispensed in the last rinse. At the end of the program a small amount of water remains in the fabric softener compartment ☼.

If starching frequently, thoroughly clean the dispenser compartment, especially the siphon tube and fabric softener channel, regularly. See "Cleaning the detergent dispenser drawer". Do not use powder starch formulations or viscous liquid starch in the ☼ compartment as it will clog up.

Adding fabric softener or liquid starch separately

- Add fabric softener or liquid starch to compartment ☼.
- Select the *Separate rinse* program.
- Press the *Start* button.

Adding starch separately

- Prepare the starch solution in accordance with the manufacturer's instructions on the packaging.
- Add the prepared starch to compartment ☼.
- Select the *Starch* program.
- Press the *Start* button.

Adding starch separately using Starch stop

- Prepare the starch solution in accordance with the manufacturer's instructions on the packaging.
- Before starting a program select the *Starch stop* extra option. The program and the "time left" indicator will pause before the last rinse. *Starch stop* will appear in the display.
- Open the drum door and add the prepared starch to the laundry in the drum.
- Close the drum door.
- Select and confirm a spin speed, or
- press the *Start* button.

Detergent

External dispensing system

The washer-extractor is fitted with an adapter for an external dispensing system. Up to six dispensing hoses (not supplied) can be connected to the washer-extractor. The external pumps are controlled by relays in the washer-extractor. Each relay is switched on for 2 minutes at a time.

A conversion kit is required for the washer-extractor to be operated using an external dispensing system. This must be fitted by a Miele service technician.

The relay is controlled as described in the separate booklet supplied. The containers must be filled with the correct detergent or disinfectant in the order specified.

Empty sensor

When the *Empty sensor* is activated, a message appears in the display to show when an external liquid agent container is empty (see *Settings/Supervisor level* in the separate booklet supplied).

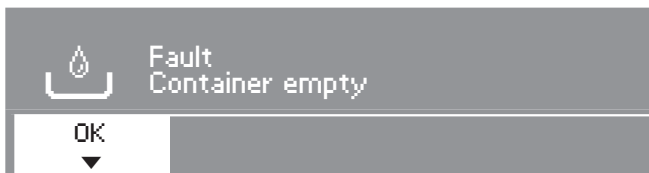
If a container is empty, the following message will come up in the display before the start of the program or while the program is running:



A program that has already been started continues to run until it has finished.


- Press short cut button to delete the message in the display, and refill the container.

If a **Disinfection program** is running, the following message is displayed:



The program will be cancelled.

- Press short cut button to delete the message in the display, and refill the container.
- Start the program again.

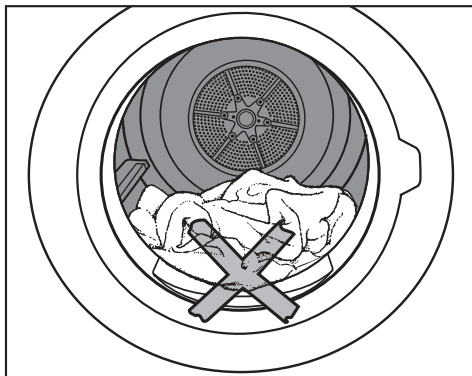
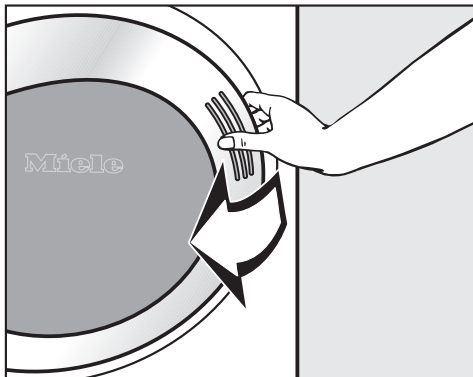
 If the container is empty for a disinfection program, you have to assume that **no** disinfection has taken place. Start the program again.

Short drying instructions

⚠ It is very important to read the "Notes and tips on laundry care" section before proceeding.

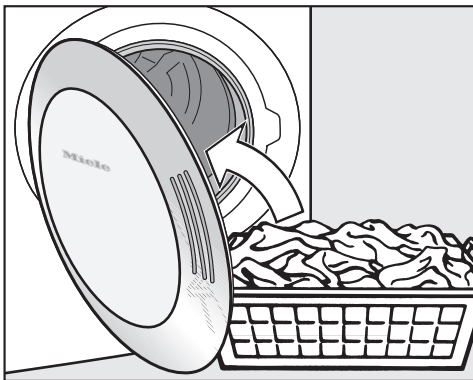
❶ Sort the laundry

❷ Load the tumble dryer

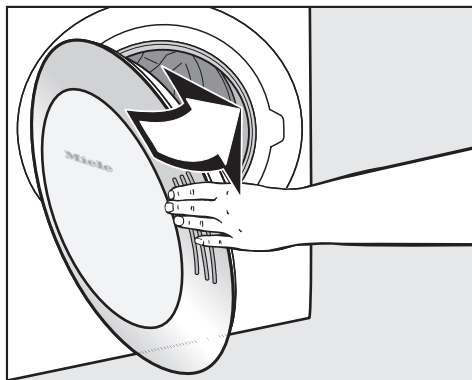


⚠ To avoid damaging your laundry, when shutting the door check that no items of laundry have become trapped in the door opening.

■ Open the door.



■ Load the drum.



■ Shut the door either with a gentle swing, or lean against it and push it shut.

Short drying instructions

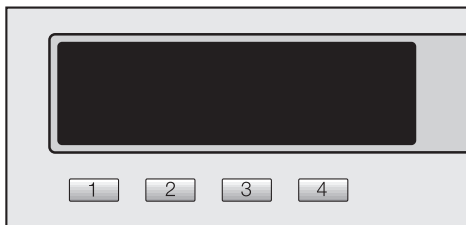
③ Select a program

- Switch the dryer on by pressing the *On/Off* ① button in.

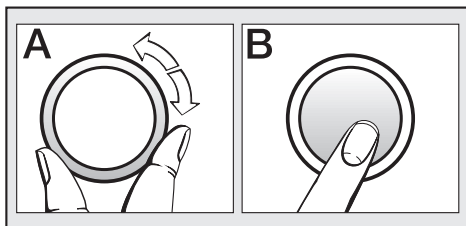
Program chart

- See separate booklet "Commissioning, Program chart and Settings".

You can select a program either by:



1. Using the appropriate short cut button to select one of the four programs listed in the display ("favorites"), or



2. Selecting a program from the *Program selection* menu (turn **A** and press **B**).

Select *Low temperature* or *Timer*, if required

- Select *Low temperature* and/or the *Timer* (Delay start time) from the relevant sub-menu.

Payment system

If your machine is connected to a payment system, the amount of credit required will appear in the display.

Credit may be lost if, after the program has started, the door is opened or the program canceled (depending on how the tumble dryer was set up).

④ Start the program

The *Start* button will flash as soon as a program can be started.

- Press the *Start* button.

The *Start* button will now light up.

- *Program running* will appear in the display, followed by *Drying* and the program duration.
- With sensor drying programs, e.g. *Machine iron ... Hand iron...* etc. will appear in the display later on.

Once drying is in progress, you can press one of the short cut buttons:

- Button **2** *Timer* to call up the estimated end time of the program and the current time of day.
- Button **3** *Save* to save the current program as a favorite.
- Button **4** *Cancel* cancels the current program.

Short drying instructions

Program duration/Estimated time remaining

When a program is selected, the estimated duration will appear in the display. Please be aware that it is only an estimate.

The following factors all affect the estimated time remaining: residual moisture content after spinning; type of fabric; size of load; room temperature; fluctuations in power supply.

The electronics continually assess conditions in the dryer and adjust the estimated time remaining for a more accurate reading. Because of this, the time displayed can alter during the course of a program.

Before the end of a program

In many programs the heating phase is followed by the cooling down phase: *Cooling down* will appear in the display. The program is not finished until the cooling down phase has been completed.

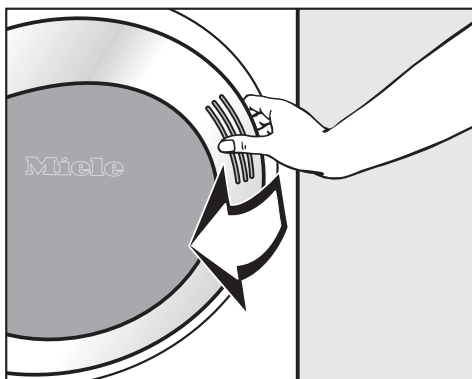
Do not switch the tumble dryer off before the drying program has finished.

5 Remove the laundry when the program has finished

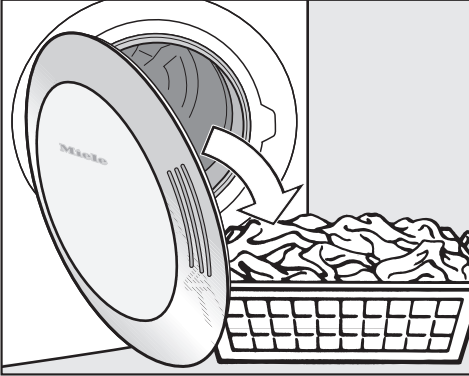
Anti-crease (if selected) and *Finish* will appear in the display to indicate that the program has finished.

During the anti-crease phase the drum will continue to turn at intervals until the laundry is removed. This helps to prevent laundry creasing.

It is advisable to remove laundry as soon as the program has finished.



- Open the door.



- Remove everything from the drum.

Check that all items have been removed from the drum. Anything left in the dryer could be damaged by overdrying when it is next used.

The drum lighting will come on when the door is opened. It will go out a few minutes later to save energy.

- Switch the dryer off by pressing the *On-Off* Ⓢ button.
- Close the door.

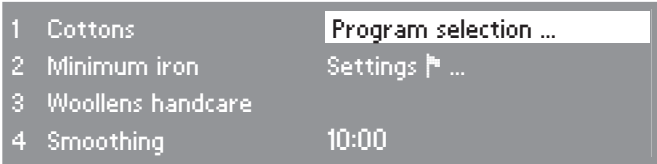
Maintenance after each drying program

- Please see "Cleaning and care" for details.

Selecting a drying program

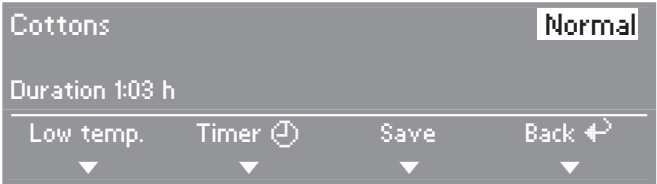
Selecting/changing a program

Entry menu



- Press shortcut button 1.

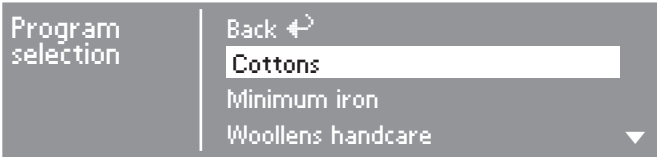
Main menu



- By turning the jog shuttle you can then highlight the following options in the display: Program (*Cottons*) or the drying level (*Normal*), and confirm your selection by pressing the jog shuttle.

Depending on the option highlighted, the following will be displayed:

– Program selection



- Use the jog shuttle to select the program you want, and confirm your selection. The main menu will reappear.

Selecting a drying program

Note: If you do not make a selection in the sub-menu within approx. 20 seconds, the display will revert to the main menu.

– Programs with drying levels (sensor drying)



- Use the jog shuttle to select the drying level you want, and confirm your selection.
- The display will show which drying levels can be selected for each individual program.

– Programs where the time can be altered



- You can increase or decrease the duration of the program* using the jog shuttle.

The program end time for the duration selected will also appear.


* If the tumble dryer has a payment system, the maximum duration for a program is set during the commissioning process under the controls option *WS shortcut keys, ex/int time*.

– Other programs

You cannot alter the drying level or duration for the other programs.

Selecting a drying program

Low temperature

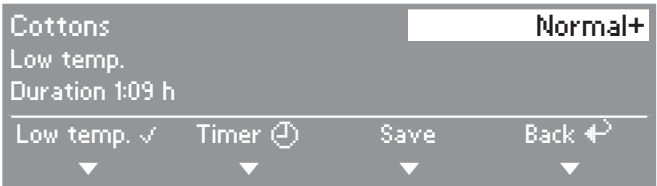
Select *Low temperature* for all delicate or minimum iron fabrics with the  care label (e.g. acrylic garments).


- Delicate fabrics are dried at a lower temperature.
- The program duration is longer.

■ Press shortcut button  *Low temp.*

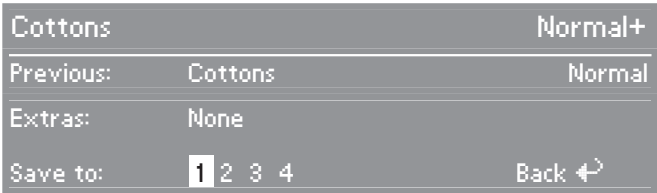
Saving a program as a favorite

You can program the short cut buttons to call up the four most frequently used drying programs. The *Save* option must be activated via the *Settings/Supervisor level* menu before the shortcut buttons can be programmed.



■ Press shortcut button  *Save*.

Selecting a short cut button

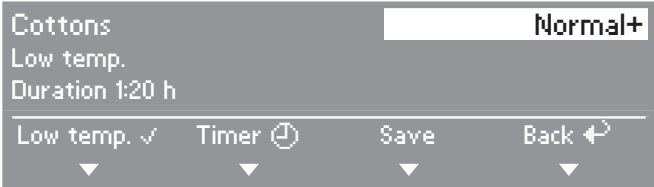


■ Use the jog shuttle to select the number you want to save the program to, and confirm your selection. Your settings have now been saved and the favorite program will appear in the entry menu.

Repeat the procedure if you want to customize other favorite programs, and save them to shortcut buttons which have not yet been used.

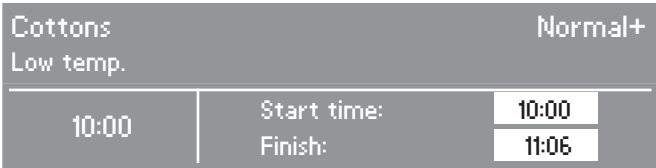
Depending on the *Delay start* setting, you can use the Timer to set the time you wish a program to finish or start at, or you can delay the start of the program.

To open the Timer sub-menu



- Use shortcut key **[2]** *Timer* to open the *Timer* sub-menu.

To select a delay start time



- Select the time required (in 30 minute steps) using the jog shuttle, and confirm.

The start and finish times will now be postponed by the time you have entered. The maximum time that an automatic program start can be delayed by is 24 hours.

To start the timer

- Press the *Start* button.
The timer will count down in minutes until the start of the program. If the delay start time selected is more than one hour, the drum will turn briefly every hour to prevent creasing.

To cancel the timer

- Press shortcut button **[4]** *Cancel*.
- The program can now be started.

Changing the program sequence

Payment system

Credit may be lost if, after the program has started, the door is opened or the program canceled (depending on how the machine was set up*).

* Either during the commissioning process or subsequently, a Miele service technician can re-set the payment system so that programming changes can be made.


Changing a program once it has started

You cannot change to another program once a program has started (this prevents unintentional alterations). You will need to cancel the current program before you can select a new one.

Canceling the current program


- Press shortcut button  *Cancel*.

On some programs, laundry will be cooled down if a certain temperature has been reached.

If shortcut button  *Cancel* is pressed again, *Finish* appears in the display.

- Open the door.
- Close the door.
- Immediately select the program you want, and then start it.

Adding or removing laundry after a program has started

 The laundry, the drum and the back of the appliance all become very hot during operation. Take care when opening the door and handling freshly dried laundry. Danger of burning.

- Press shortcut button  *Cancel*.

On some programs, laundry will be cooled down if a certain temperature has been reached.


- Only open the door once the laundry has cooled down completely.
- Add or remove items as required.
- Close the door.
- Select a program.
- Press the *Start* button.

Power outage


- If the dryer is switched off during a drying program or there has been a power outage:
- When the machine is turned on again and/or the power is restored, confirm with *OK* and start the program again.

Time remaining

The time left shown in the display may now vary from the actual drying time.


 Disconnect both the washer-extractor and the tumble dryer from the electrical supply.

Cleaning the washer-extractor and tumble dryer stack

 Do not use solvents, abrasive cleaners, glass cleaners or multi-purpose cleaning agents. These could damage plastic surfaces and other parts.

Housing and control panel

- Clean the housing, control panel, door and door seals with a slightly damp cloth and a mild detergent or soapy water.
- Clean the drum and other stainless steel parts with a suitable stainless steel cleaner following the manufacturer's instructions.
- After cleaning, dry with a soft cloth.

 The appliance stack must never be hosed down.

Cleaning the washer-extractor

Cleaning the drum, suds container and drainage system

The drum, suds container and drainage system can be cleaned if necessary.

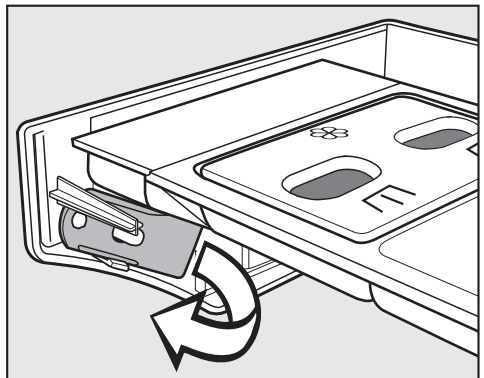
- Start the *Maintenance program*.
- At the end of the program check the inner drum and remove any coarse residues.

If you use disinfection programs on a regular basis, the *Maintenance program* should be carried out frequently.

Cleaning the detergent dispenser drawer

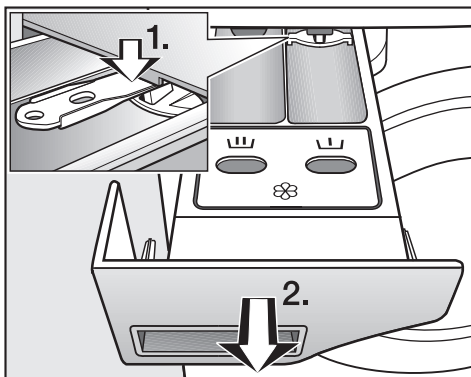
Remove detergent residues regularly.

There is a yellow tool behind the detergent drawer fascia panel.



- Remove the tool.

Cleaning and care

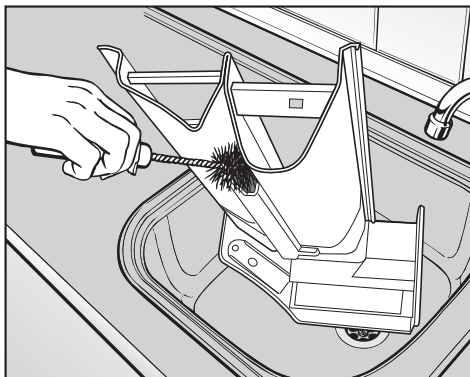


- Pull the detergent drawer out as far as it will go.

1. Then press the safety catch down using the lever as illustrated.

2. Then pull the detergent drawer out.

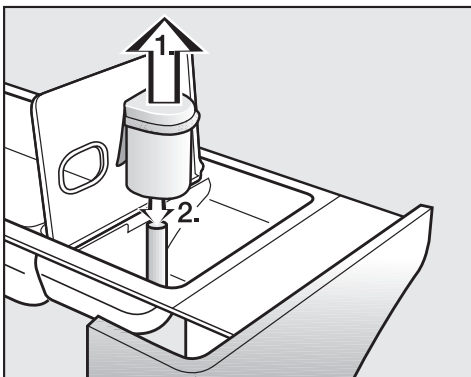
- Clean the drawer with warm water.



- Clean the fabric softener channel using a brush and warm water.

If starching frequently, thoroughly clean the siphon, the siphon tube and the fabric softener channel regularly. A build-up of liquid starch will cause them to get clogged.

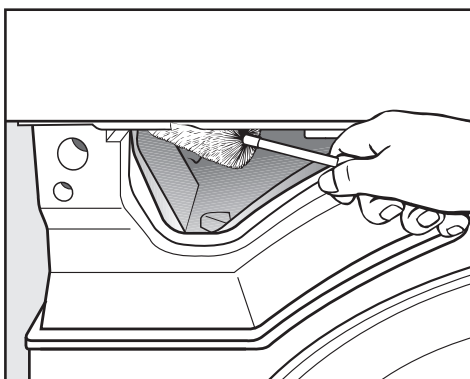
Cleaning the detergent dispenser drawer housing



- Clean the siphon.

1. Remove the siphon from compartment 8 and rinse under warm running water. Clean the siphon tube in the same way.

2. Replace the siphon.



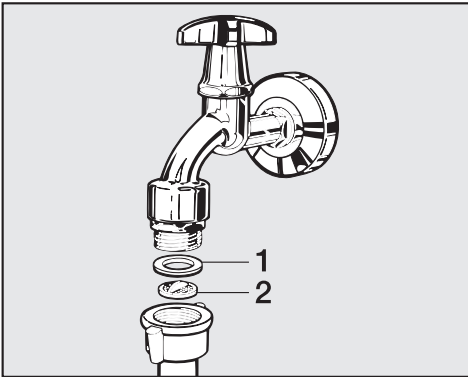
- Use a bottle brush to remove detergent residues and limescale from the jets inside the detergent dispenser drawer housing.

Cleaning the inlet hose filter

The washer has two water inlet filters to protect each inlet valve. Check and clean these filters every 6 months. This may have to be done more frequently with some water supplies.

Cleaning the inlet hose filters

- Turn off the water supply.
- Unscrew the inlet hose from the valve by turning the connector counterclockwise using a wrench if necessary.

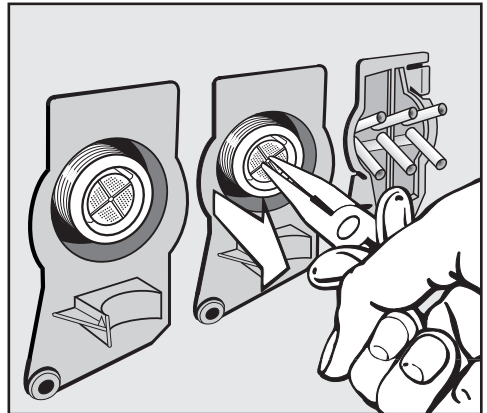


- Remove the rubber seal, **1**, from the connector.
- Using needle nose pliers, grasp the plastic filter, **2**, and pull it out of the hose connector.
- Clean the filter under running water and carefully remove any large particles.
- Replace the filter and seal and reconnect the hose.

Slowly turn on the water supply and check for leaks. If water leaks, tighten the hose connection.

To clean the filter in the water inlet valve:

- Using pliers, carefully loosen the ribbed plastic nut on the inlet valve and unscrew.



- Using needle nose pliers, remove the plastic filter by pulling on the bar (see illustration). Rinse under running water and return. Replace the filter and seal, then reconnect the hose.

Both filters **must** be put back in place after cleaning.

Cleaning and care

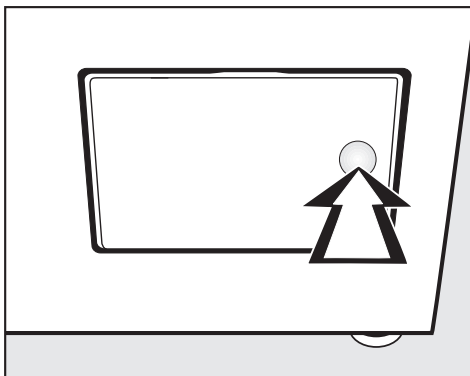
Cleaning the lint filter

Lint from items being dried is collected by a two-part cartridge lint filter in the ducting. This needs to be removed and taken apart for cleaning.

⚠ The lint filter should be checked and cleaned regularly, but always clean immediately if the *Clean out airways* message comes up in the display.

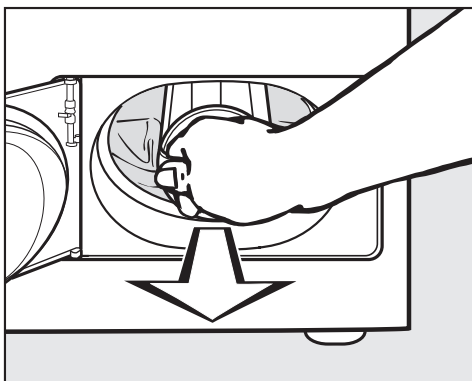
Note: You can use a vacuum cleaner to remove the lint.

Removing the filter



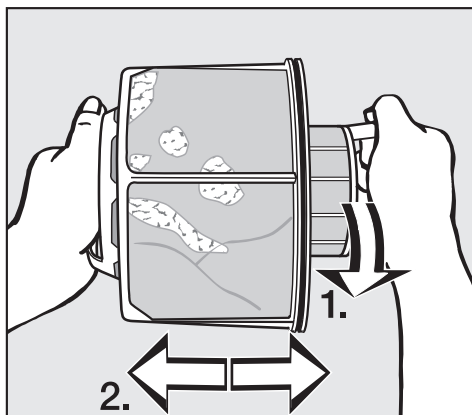
- Press on the right hand side of the access panel to the lint filter housing to open it.

Do not turn the handle on the lint filter, as this will cause the lint filter to come apart (see below).



- Pull the filter out by the handle.

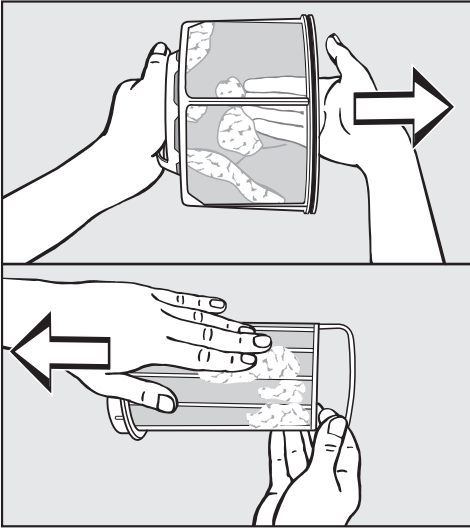
Taking the filter apart



- Hold the lint filter firmly by the handles on either side, as shown.
- 1. Twist the inner section of the lint filter as shown.
- 2. Pull the two sections of the lint filter apart.

Cleaning the filter while dry


The lint filter can be hygienically and easily cleaned using a vacuum cleaner.




- Remove the lint with your fingers, or use a vacuum cleaner.

Cleaning the lint filter with water

If there is a great deal of compacted lint on either part of the filter, they can be cleaned under hot running water.

 Dry the two sections thoroughly before reassembling them. A damp or wet filter could cause operational faults when the dryer is switched on.

Replacing the filter

 If there is a heavy build-up of lint in the ducting, the ducting should also be cleaned before the clean filter is replaced.
See the next page for further details.

- Reassemble the inner and outer sections of the filter.
- Slowly turn the inner section of the filter clockwise until it you hear it click.
- Hold the filter by the handle, and push it into the ducting until it clicks into place.

Do not turn the handle while you are pushing it back into the ducting, or the filter will come apart.

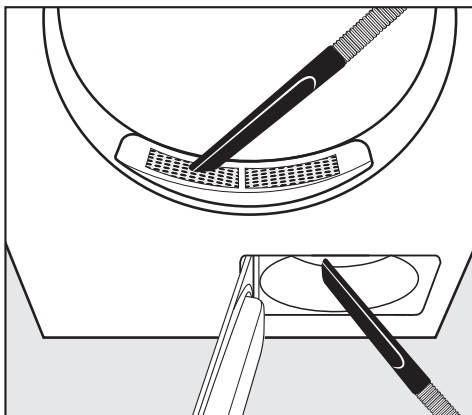
- Close the access panel to the filter housing.

Cleaning and care

Cleaning the filter housing

The filter housing should be checked from time to time, and cleaned when there is a build-up of lint there.

Quick cleaning



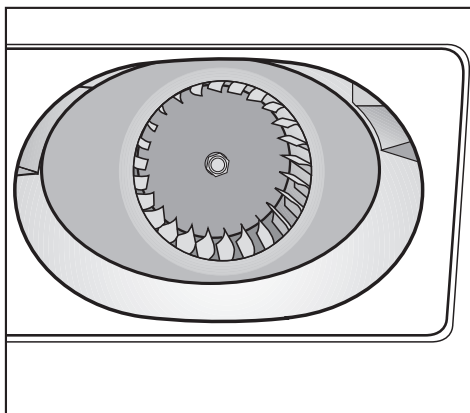
- Use a vacuum cleaner to remove the lint
 - from the cover in the door opening (above), and
 - from the ducting area in front of the impeller (below) if the lint filter has been removed for cleaning.

Extra cleaning

– Fan


The fan behind the filter access panel can become clogged with detergent residues and lint.

Check the fan from time to time, and clean it if it becomes clogged.

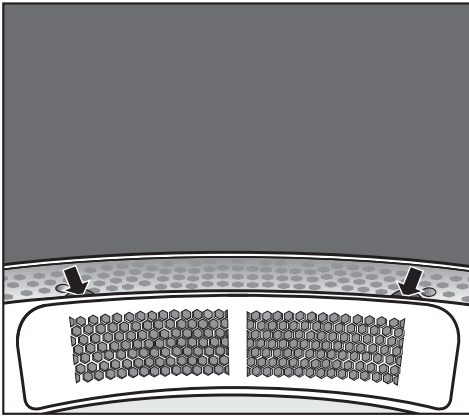


- Using a damp cloth, carefully clean residues from the fan.
- At the same time, clean the area in front of the fan.
- Clean away lint using the vacuum cleaner.
- Remove any lint from the inside of the open access panel and the rubber seal, taking care not to damage the seal.

– The cover in the door opening

 The cover in the door opening should only be removed if they become severely clogged.

- Look inside the drum.



- Feel under the edge of the cover at the back* (see arrows) and pull the cover up and out.

* You can use the two screws supplied to stop the cover being removed inadvertently. See instructions below.

- Clean the filter area underneath the cover using a vacuum cleaner.
- Clean the cover.
- Open the access panel to the filter housing, and clean the area in front of the fan.

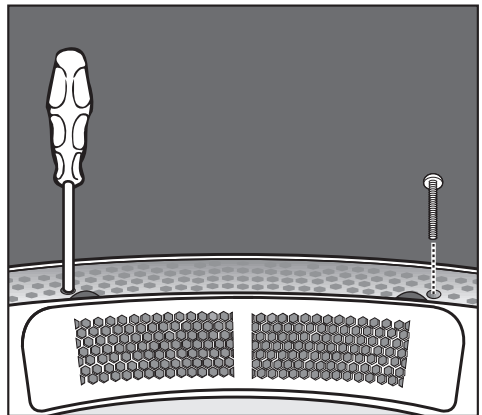
Replacing the cover

- Fit the cover to the left or right hand side of the door opening,
- then press the cover down until it clicks into place on both side.

Securing the cover

The cover can be secured using the two screws supplied to prevent it being removed inadvertently. The screws must be secured inside the drum.


- Look inside the drum.




- Screw the torx screws into the round holes on the left and right underneath the cover, as shown.

Problem solving guide

With the help of the following notes, minor faults in the performance of the appliance, some of which may result from incorrect operation, can be put right without contacting the Service Department.

 Repair work to electrical appliances should only be carried out by a Miele Service Technician in strict accordance with current local and national safety regulations. Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorized work.





Problem	Possible cause	Remedy
The display remains dark.	There is no power to the appliance stack.	Check whether <ul style="list-style-type: none"> – the electricity supply to the appliance stack is switched on. – the fuse or circuit breaker has tripped.
The program does not start when <i>Spin</i> has been selected.	The washer-extractor has not been prepared for using for the first time.	Run the <i>Cottons Universal 60°C</i> program as described in "Commissioning the machine" section of the separate booklet "Washer-extractor Commissioning, Program chart and Settings" supplied.
The display is dark and the <i>Start</i> button is flashing slowly.	The display has switched off automatically to save energy (Standby mode).	Press one of the shortcut buttons. Standby comes to an end.
The display is in a different language.	A different language has been selected.	Set the language you want. The flag symbol  will guide you.
The appliance stack shakes during the spin cycle.	The feet are not level.	Level the appliance stack (see "Installation and connection").

Problem solving guide




Message in the display	Possible cause	Remedy ❶
<p>p Water intake fault Open the stopcock and check the inlet hose.</p>	The water inlet is blocked or restricted.	Check whether <ul style="list-style-type: none"> – the stopcock is opened properly. – the inlet hose is kinked.
	The water pressure is too low.	<ul style="list-style-type: none"> – Select <i>Low water pressure</i> in the <i>Settings/Supervisor level</i> menu.
, <p>Technical fault If restart is unsuccessful, contact Technical Service.</p>	There is a fault.	Start the program again. If the fault message appears again, contact the Miele Service.
, <p>Fault Disinfection temperature not reached</p>	During the disinfection program the water temperature was not reached.	The washer-extractor has not carried out the disinfection cycle correctly. Start the program again.
Q <p>Drain fault Clean the drainage system</p>	The water outlet is blocked or restricted.	Drain pump version: Clean the drainage system. Drain valve version: Call the Service Department.
O <p>Fill the container or Fault Container empty</p>	One of the external detergent containers is empty.	See "Detergent - Empty sensor".

❶ To switch off the fault message, press the jog shuttle.

Problem solving guide

Problem	Possible cause	Remedy
 Adjust the load The drum is empty or the laundry is too dry.	This is not a fault. In some programs, if the drum has been overloaded or underloaded, the program will be canceled. This can also happen if the items are already dry.	Use the Hot air program (timed drying) to dry individual items. To delete the message: – Open the door.
 Technical fault If restart is unsuccessful, call Service. A fault number (e.g. F43) might also be displayed.	A program cannot be started while there is a fault message in the display.	– Make a note of what is shown in the display. – Try to start the program again.
 Power failure Program stopped Press OK button	If the dryer is switched off during a drying program or there has been a power cut:	– When the dryer is switched on again and/or the power is restored, confirm with <i>OK</i> and start the program again.
 Clean out airways Clean the lint filter. Check ducting appears after a while.*	Reminder to clean the filter.	– Clean the lint filter. To delete the message: – Confirm with <i>OK</i> .
* You can adjust the setting which controls if or when the check message appears: See "Clean the filter" and "Cleaning out airways" in the "Settings/Supervisor level menu" in the separate booklet "Tumble dryer Commissioning, Program chart and Settings" supplied.		

Problem solving guide

Problem	Possible cause	Remedy
 Clean out airways Clean the lint filters Check ducting appears at the end of a program.*	There is a blockage in the ducting system.	<ul style="list-style-type: none"> – Clean the lint filter. – Check all possible causes given under "The drying process goes on too long or even switches off." To delete the message: <ul style="list-style-type: none"> – Open and close the door.
	The vent ducting may be very long, which does not constitute a fault.	<ul style="list-style-type: none"> – If very long ducting is used, then program times will be longer and energy consumption higher.
 Clean out airways Clean the lint filters Check ducting F66 appears after a program has been canceled.	There is a very severe blockage in the ducting system.	<ul style="list-style-type: none"> – See above. To delete the fault message: <ul style="list-style-type: none"> – Confirm with <i>OK</i>.
To continue a program after a power cut	Power cut.	<ul style="list-style-type: none"> – Confirm the message shown in the display by pressing shortcut button  and then press the <i>Start</i> button. The program will then continue with the next program stage.
	The washer-extractor was switched off and then back on again with the <i>On/Off</i> button.	

Problem solving guide

Problem	Possible cause	Remedy
The pump makes strange noises.	This is not a fault. These noises occur at the end of a pump sequence as a normal part of the operation.	
Large amounts of detergent residue remain in the detergent dispenser drawer.	The water pressure is too low.	<ul style="list-style-type: none"> – Clean the filters in the water inlet. – It may be useful to select the <i>Water plus</i> extra option.
	Powder detergent used in conjunction with water softeners tends to become sticky.	In future, add washing powder into the dispenser drawer first, and then add the water softener.
Fabric softener is not completely dispensed or too much water remains in the compartment. ☼	The siphon tube is not correctly positioned or is clogged up.	Clean the siphon (see "Cleaning and care - Cleaning the detergent dispenser drawer").
Liquid detergent does not give the required result.	Liquid detergents usually contain no bleaching agents. They do not remove fruit, coffee and tea stains.	<ul style="list-style-type: none"> – Use a general purpose detergent containing a bleaching agent. – Pour stain removers into compartment III of the dispenser drawer and liquid detergent into a dispenser ball. – Never put stain removers and liquid detergent together in the dispenser drawer.
Grey, greasy particles cling to washed laundry.	Insufficient amounts of detergent were used to break down the particles of grease in heavily soiled laundry.	<ul style="list-style-type: none"> – For this kind of soiling use either more detergent or liquid detergent. – Before washing the next load run a Cottons 60°C program with liquid detergent but without a load.

Problem solving guide

Problem	Possible cause	Remedy
White residues which look like powder detergent are seen on dark textiles after washing.	The detergent contained compounds (zeolites) to aid water softening which are not soluble in water. They have ended up on the laundry.	<ul style="list-style-type: none"> – Try and brush off the residues with a soft brush once the laundry is dry. – Wash dark textiles using a detergent which contains no zeolites. Liquid detergents usually contain no zeolites.
Textiles have particularly greasy soiling.	<ul style="list-style-type: none"> – Select a program with pre-wash. Use liquid detergent for the pre-wash. – In the main wash use ordinary powder detergent. <p>The use of heavy-duty detergent is recommended in the main wash for very heavily soiled work clothing. Consult detergent producers for advice.</p>	
The door will not open	The door is locked after a program has been canceled.	<ul style="list-style-type: none"> – For safety reasons the drum door cannot be opened if the suds temperature is higher than 50°C. Wait until the washer-extractor has cooled down.
	The door will not open at the end of a wash program.	<ul style="list-style-type: none"> – Press against the door handle, switch the washer-extractor off and then back on again. Then pull on the door handle again.
	There is still water in the drum and the washer-extractor is unable to drain.	<ul style="list-style-type: none"> – The drainage system may be blocked. Clean the drainage system as described in the next section.
	The door handle safety device has disengaged.	<ul style="list-style-type: none"> – The door handle has a safety device to prevent damage to the lock. Press firmly against the door handle until you clearly hear the safety device engage.

Problem solving guide

Problem	Possible cause	Remedy
The laundry is not sufficiently dry.	The load consisted of different fabrics.	<ul style="list-style-type: none"> – Finish drying using the <i>Hot air</i> program (timed drying). – Next time, select a more suitable program (see "Program chart" in the separate booklet "Tumble dryer Commissioning, Program chart and Settings" supplied).
Feather filled pillows smell after drying.	Feathers are a natural product and this is quite normal.	The smell will dissipate after sufficient airing.
Items made of synthetic fibers are charged with static electricity after drying.	Synthetic fibers tend to attract static charge.	Static charge can be reduced by adding a fabric softener to the final rinse in the washing program or a fabric softener sheet to the load when drying.
There is a build-up of lint.	Lint is principally the result of friction when garments are being worn and to some extent when they are being washed. Machine drying hardly causes any lint to form and has no appreciable effect on the lifetime of the fabric.	Lint is collected by the lint filter and can be easily removed (see "Cleaning and care").
There is a build-up of condensed water in the drum.	There is more than one tumble dryer vented together.	<ul style="list-style-type: none"> – The dryer must only be connected to a joint ducting system if a non-return flap is in place. – Check the non-return flap regularly for damage, and replace it if necessary.

Problem solving guide

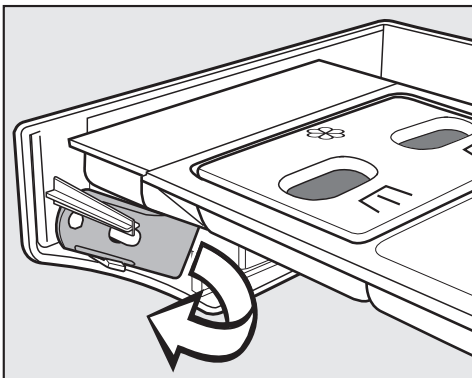
Problem	Possible cause	Remedy
The drying process goes on too long or even switches off.	You might be asked to clean the ducting system again.	Please check all possible causes described below.
	The lint filter is blocked.	– Remove any lint.
	The filter housing is blocked with e.g. lint and hair.	– Clean the filter housing. – The cover in the door opening can be removed to facilitate the cleaning of the filter housing below.
	The vent ducting or the ventilation outlet is blocked with e.g. lint or hair.	– Check all parts of the vent ducting system on a regular basis (e.g. wall pipe, external grille, bends in the ducting etc.) and clean them if necessary.
	Ventilation to the dryer is insufficient (e.g. because it is installed in a room which is too small).	Open a door or window while the dryer is in operation for increased air flow.
	The laundry has not been spun sufficiently.	Make sure that your laundry is thoroughly spun at the appropriate spin speed in the washer-extractor.
	The tumble dryer has been overloaded.	Do not exceed the maximum load for the program selected.
	Metallic components, e.g. zippers, have prevented the dryer from registering the correct moisture level in the laundry.	– Open zippers next time. If the problem occurs again, dry garments with long zippers using the Hot air program (timed drying).

Problem solving guide

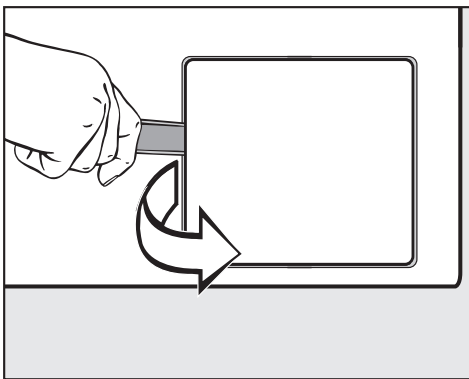
Opening the drum door in the event of a blocked drain and/or power failure

⚠ Disconnect the washer-extractor and tumble dryer stack from the electrical supply.

There is a lever behind the detergent drawer fascia panel which opens the access flap to the drain system.



- Remove the lever.



- Use it to open the access flap.

Drain the washer-extractor

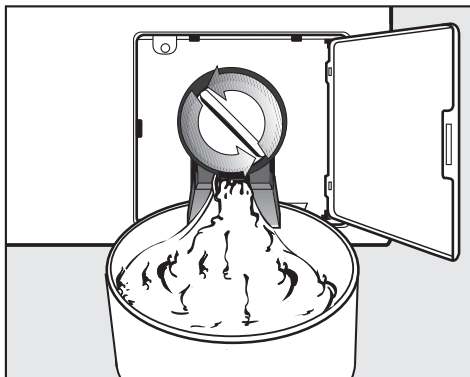
If the drain outlet is clogged, a large amount of water will be retained in the washer-extractor (**approx. 9 gallons / 35 liters**).

⚠ Caution: if laundry has been washed at a high temperature, water draining out of the machine will still be hot. Danger of scalding.

... Washer-extractors with a drain filter

- Place a suitable container under the access flap.

When draining water from the washer-extractor, do **not** unscrew the drain filter completely or take it right out.



- Unscrew the drain filter lid until water runs out.

To stop the flow of water:

- Tighten the drain filter back up again.

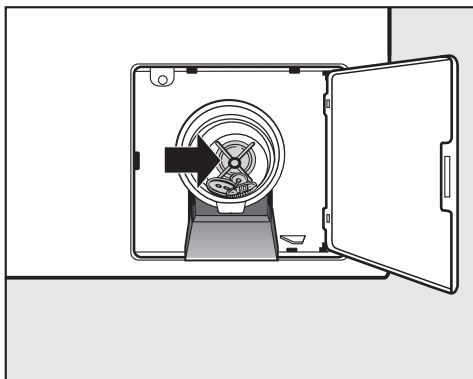
Once the flow of water ceases:



- Remove the drain filter completely.

Cleaning the drainage system

- Clean the drain filter thoroughly.

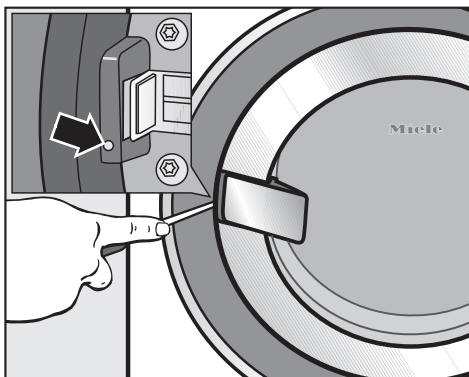


- Remove any foreign objects (e.g. buttons, coins, etc.) and lint from the filter housing. Turn the impeller by hand to check that it rotates freely.
- Put the drain filter back in place and secure it.

⚠ Make sure the drain filter is securely tightened. Otherwise there is a risk of water leakage during use.

Opening the drum door

⚠ Always make sure that the drum is stationary before reaching in to remove laundry. Reaching into a moving drum is extremely dangerous.




- Insert a suitable screwdriver (approx. 4 mm blade) into the opening next to the door lock and use it to release the catch. Turning it slightly in a clockwise direction should release the door.
- Open the door with the handle.

⚠ Do not use force to open it.

Problem solving guide

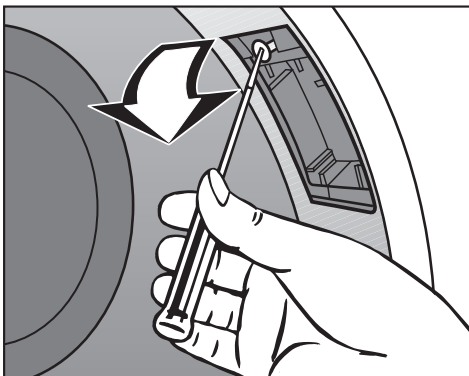
Changing the lamp

Disconnect the washer-extractor and tumble dryer from the electricity supply.

 Ensure that it is fitted into position securely, as any moisture could cause a short circuit.


- 1 Open the door of the dryer.

The lighting is at the top of the door opening on the right-hand side.



- 2 Remove the screw.
- 3 Lower the cover.
- 4 Replace the lamp.

The temperature resistant lamp should only be ordered from the Miele Spare Parts Department.

 The lamp specification and maximum wattage is stated on the data plate and on the lamp cover.

- 5 Raise the cover again.
- 6 Replace the screw.

Peak load

When the peak load function is activated, the heating will turn off and the program is stopped. The following message appears in the display:

Washer-extractor display:

Cottons Hygiene	60°C	1300 rpm
Main wash		0:43 h
Peak load		

Tumble dryer display:

Cottons	Normal
Drying	0:43 h
Peak load	


After the peak load function is deactivated the program will continue automatically.

Display Service

If the following message appears in the display after "Poweron", Miele Service needs to perform a routine maintenance.

Washer-extractor display; Tumble dryer display:



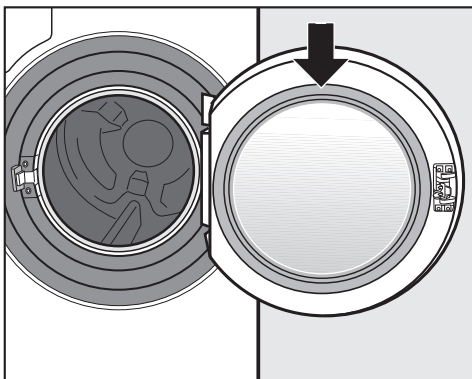
Press the short cut button , or wait approx. 5 seconds, the display will revert to the main menu.

After sales service

Repairs

In the event of any faults which you cannot fix yourself contact the Miele Service Department (see back cover for contact details).

When contacting the Miele Service Department, please quote the model number and serial number of both the washer-extractor and tumble dryer in the stack.



This information is given on the data plate which is visible above each door aperture with the door open. It is also quoted on the identification label at the rear of the tumble dryer.

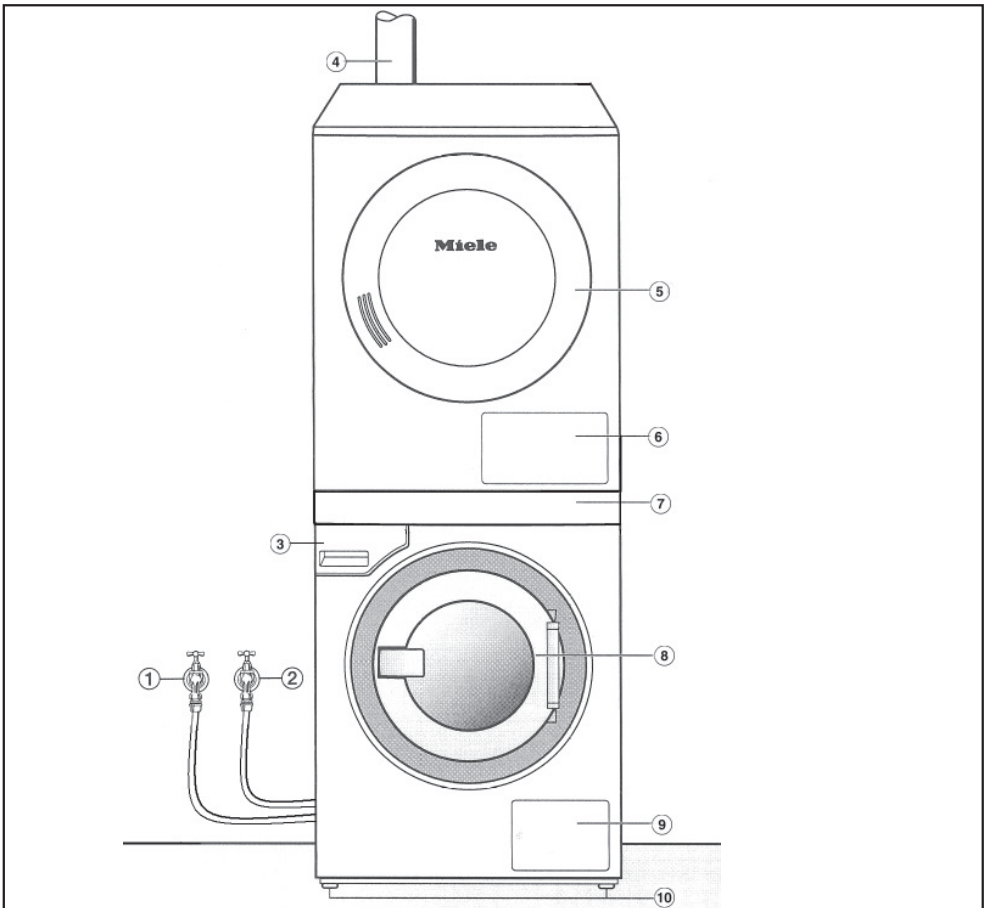
Optical interface PC

The indicator or check light marked **PC** on the fascia panel is the interface used by Miele service technicians during servicing work for testing purposes and for updating the appliance's program data.

Optional accessories

Optional accessories (e.g. plinth or dosing pumps) for this washer-extractor and tumble dryer stack are available from Miele Professional.

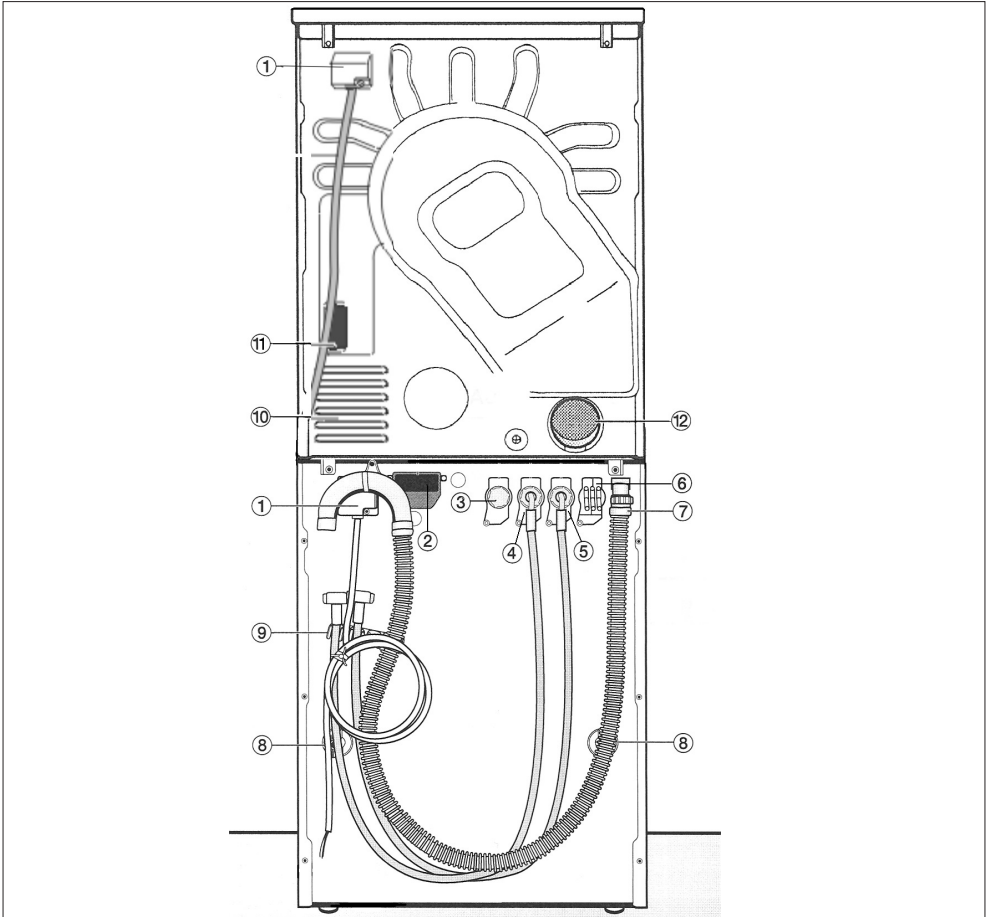
Front view



- | | |
|------------------------------|--|
| ① Inlet hose (cold water) | ⑥ Filter access panel |
| ② Inlet hose (hot water) | ⑦ Control panel |
| ③ Detergent dispenser drawer | ⑧ Door with handle |
| ④ Vent ducting | ⑨ Access panel to lint filter and drain pump |
| ⑤ Door | ⑩ Height adjustable feet |

Installation and connection

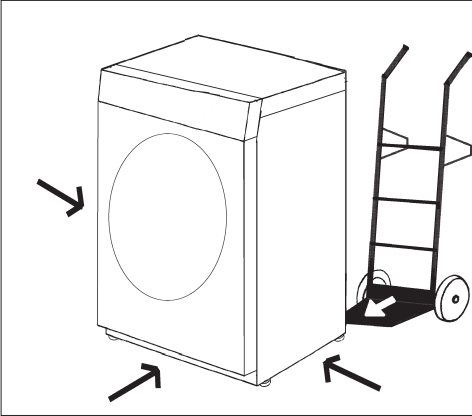
Rear view



- | | |
|--|---|
| ① Power cord | ⑦ Drain hose |
| ② Slot for communication module (washer-extractor) | ⑧ Transit bars |
| ③ Valve for recycled water | ⑨ Restraining clip for inlet hoses and drain hose |
| ④ Inlet hose (hot water) | ⑩ Air inlet vents |
| ⑤ Inlet hose (cold water) | ⑪ Slot for communication module (tumble dryer) |
| ⑥ Adapter for external dispensing system | ⑫ Exhaust connection Ø 4" (100 mm) |

Installing the washer-extractor and tumble dryer stack

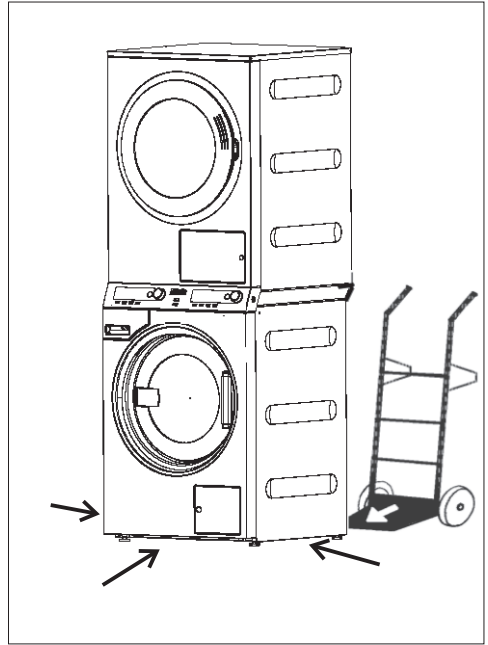
All installation work must be carried out by a suitably qualified technician in strict accordance with local and national safety regulations.



- Transport the washer-extractor and tumble dryer separately to their installation site.

⚠ Ensure that each appliance is stable during transportation.

⚠ **Do not** lift it by the drum door.



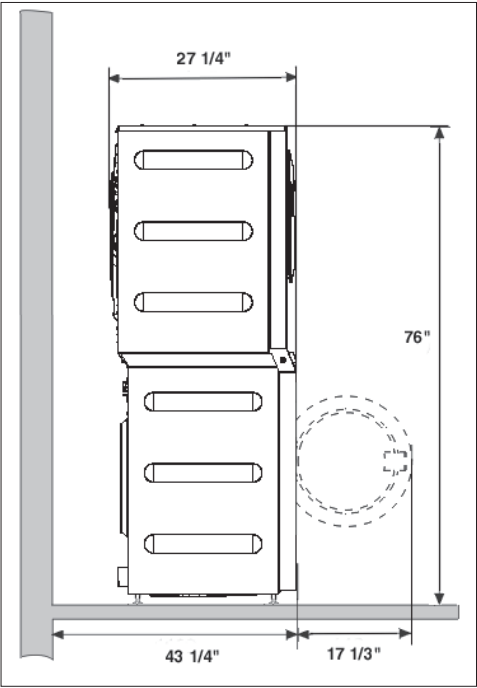
It is also possible to transport the stack as a complete unit to its installation site.


Please note that the stack weighs 461 lbs (209 kg)!

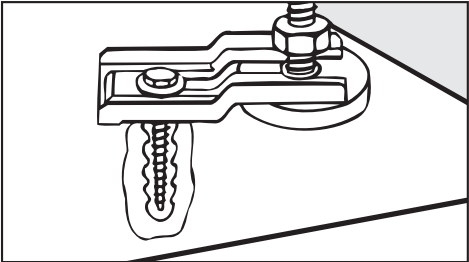
⚠ Ensure that the stack is stable during transportation. Because of its height and high centre of gravity there is a risk of it tipping.

Installation and connection

View from the side



 The appliance stack **must** be secured using clamps.



- Secure all four feet on the appliance stack with the clamps supplied.

Follow the fitting instructions supplied.

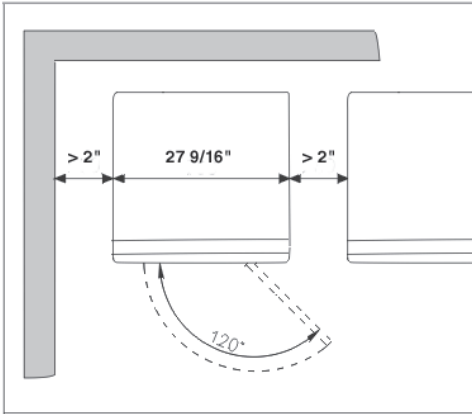
Payment system

This appliance stack can be fitted with a payment system.*

The payment system can be set up by a Miele service technician when the washer-extractor and tumble dryer are commissioned.


Coins / tokens must be removed from the payment system regularly, otherwise it will become blocked.


View from above



* Available from Miele.

Installation surface

 Do not install the appliance stack near or directly above an open gully or floor drain. Moisture from these can penetrate the stack and damage electrical components.

 Ensure that the feet of the washer-extractor and the floor are dry to prevent the washer-extractor from slipping during the spin cycle.

A concrete floor is the most suitable installation surface, being far less prone to vibration during the spin cycle than wooden floorboards or a carpeted surface.

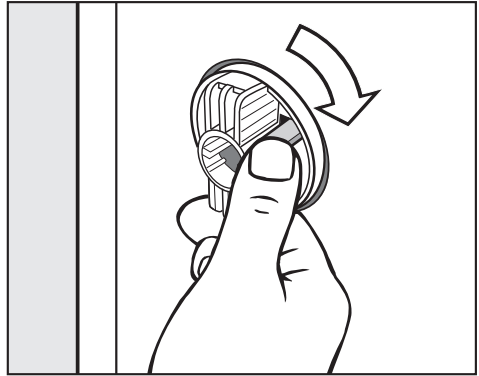
- The appliance stack must be level and securely positioned.
- To avoid vibrations during spinning, it should not be installed on soft floor coverings.

If installing on a wooden joist floor:

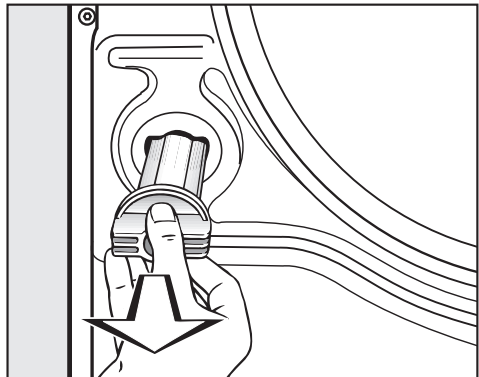
- We recommend a plywood base, at least 27 3/16" x 30 5/16" x 1 3/16" (69 x 77 x 3 cm). The base should span several joists and be bolted to the joists and not only to the floorboards. Check for the presence of pipes and cables first.

If possible, install the stack in a corner, as this is usually the most stable part of the floor.

Removing the transit bars

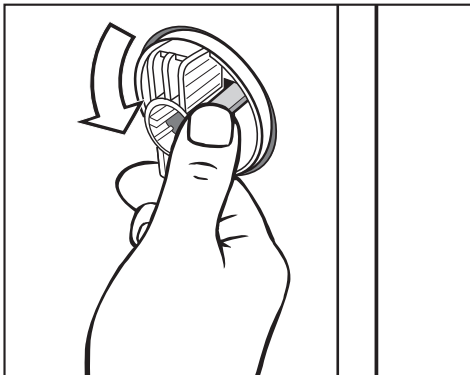


- Release the catch on the washer-extractor and turn the left hand transit fitting clockwise by 90°.

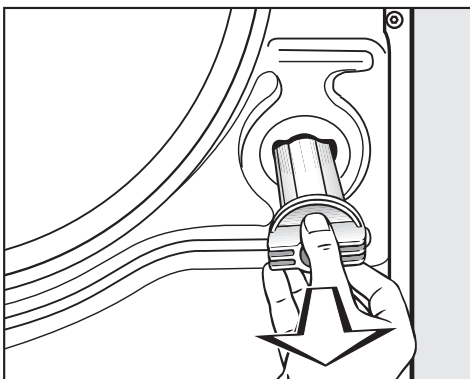


- Then withdraw the transit bar.

Installation and connection

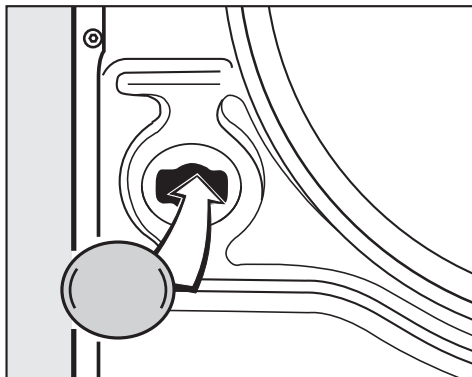


- Release the catch and turn the right hand transit fitting anti-clockwise by 90°.



- Then withdraw the transit bar.

⚠ To avoid the risk of injury the holes for the transit bars must be covered after they have been removed.
If they are not covered there is a risk of injury.



- Plug the holes with the plastic caps supplied.

⚠ The appliance stack must not be moved without the transit bars in place.
Keep them in a safe place for future use. They must be re-fitted if the stack is to be moved again (e.g. when moving house).


⚠ Ensure the stack is stable during transportation.

Re-fitting the transit bars

Re-fitting is carried out by reversing the procedure.

Leveling the washer-extractor

Ensure that the feet of the washer-extractor and the floor are dry to prevent the washer-extractor from slipping during the spin cycle.

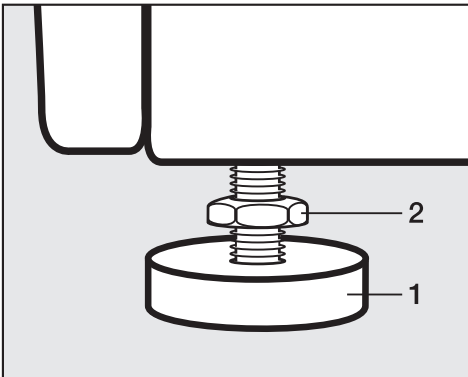
 The appliance stack must stand perfectly level on all four feet to ensure safe and proper operation.

Incorrect installation may increase electricity and water consumption and may cause the laundry stack to move about.

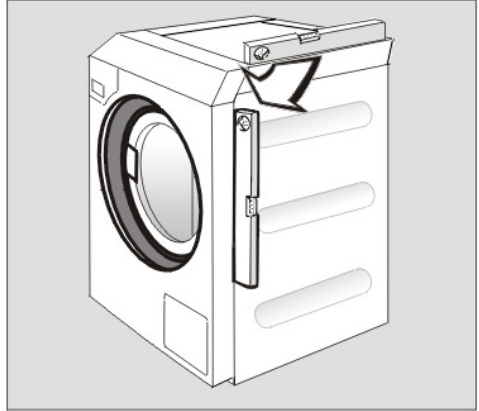
Screwing out and adjusting the feet

The four adjustable feet underneath the washer-extractor are used to level the appliance stack. All four feet are screwed in when the appliance stack is delivered.


First align and level the washer-extractor.



- Using the wrench supplied, turn counter nut **2** in a clockwise direction. Then turn counter nut **2** together with foot **1** to unscrew.

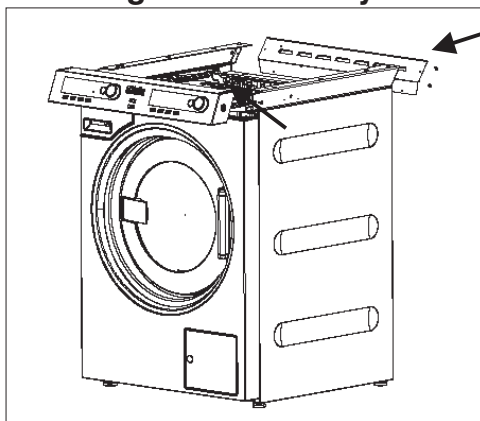


- Use a spirit level to check that the washer-extractor is standing level.
- Hold foot **1** securely with a pipe wrench. Turn counter nut **2** again using the wrench supplied until it sits firmly up against the housing.

 All four counter nuts must sit firmly up against the housing. Please also check this for the feet which did not need adjustment. Otherwise there is the danger of the appliance stack moving during use.

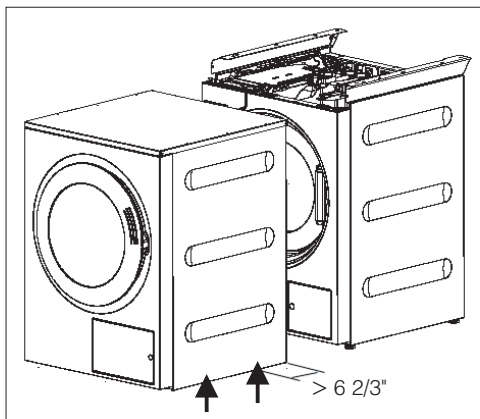
Installation and connection

Installing the tumble dryer




- Loosen the 2 screws on the control panel of the washer-extractor, then disconnect the plugs from the electronic unit and from the switch and carefully place the control panel to one side where it cannot get damaged. When disconnecting the plugs please ensure that the pins do not come loose or get damaged.

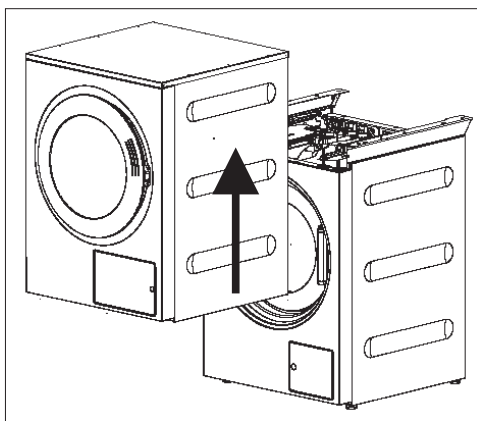
- Loosen the 4 screws from the joining panel at the back of the washer-extractor and then place it to one side.



- Then position the tumble dryer in front of the washer-extractor.
- Release the cables which protrude from underneath the dryer from the packaging.
- Lift the dryer from the positions marked in the drawing. When doing so maintain the correct distance from the rear panel.

During installation please use adequate measures to protect yourself, e.g. by wearing protective gloves.

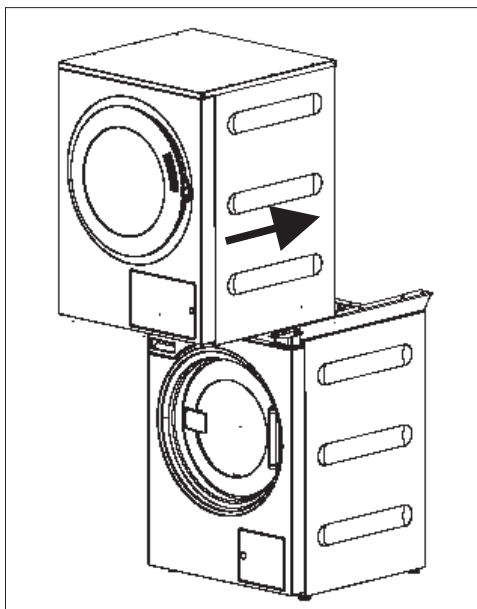
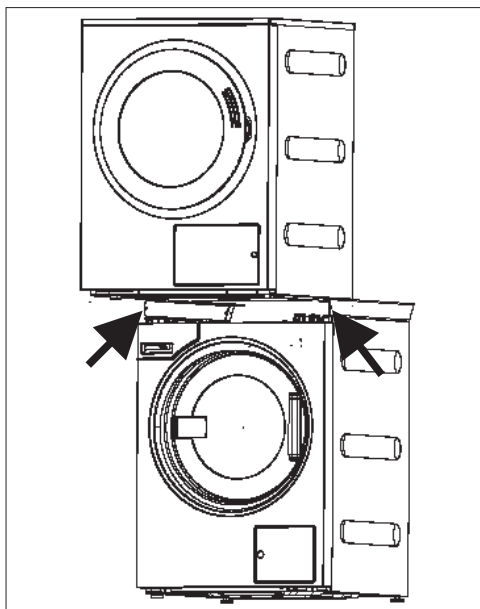
 The dryer is very heavy, approx. 163 lbs (74 kg).



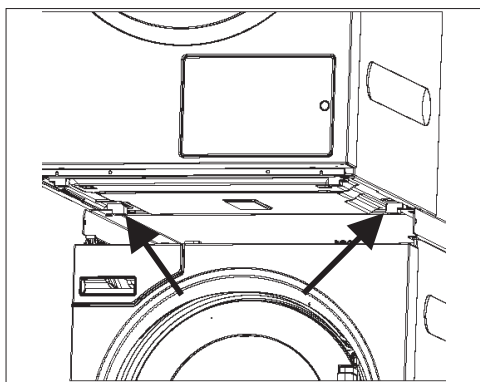
- With the help of a suitable person lift the top dryer onto the washer-extractor.

Use a suitable lifting device if possible.


Installation and connection

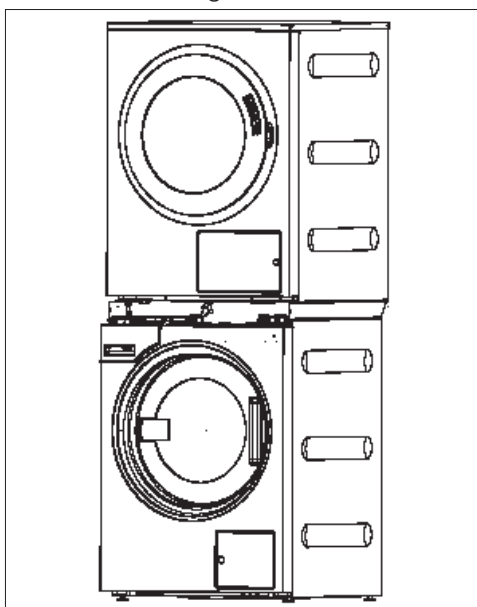


- Slide the dryer back along the guides as far as it will go.

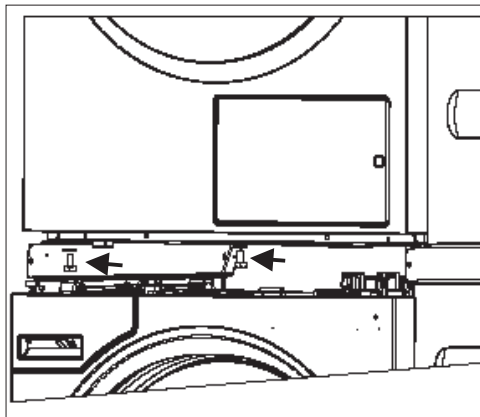


- Fit the rear guides on the base plate of the tumble dryer into the guides on the washer-extractor.

 **Danger of injury!**
Be careful not to trap your fingers
when positioning the tumble dryer.



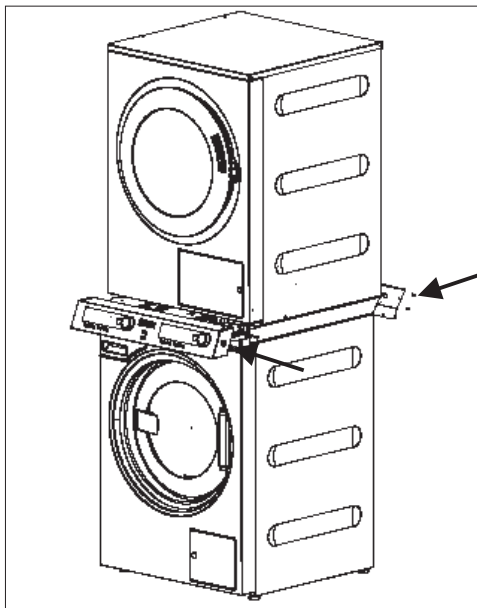
Installation and connection



- Secure the dryer through the guides to the washer-extractor dryer using 4 screws and washers (supplied in the accessory pack).

Make sure that the connecting screws are correctly tensioned between the washer-extractor and the dryer (45 Nm).

- Connect the plugs from the washer-extractor and the dryer to the relevant electronic unit and to the relevant switch on the control panel. The white cables connect to the top on the On/Off switch. The brown cables connect to the left on the On/Off switch.



- Screw the control panel to washer-extractor using 2 screws.
- Screw the joining panel to the back of the washer-extractor using 4 screws.

Plumbing


The stack is built in accordance with current standards and must be connected to a water supply in accordance with local and national safety regulations. It can be connected with out a non-return valve if national regulations permit

The stack is designed to operate with a flow pressure of between 100 kPa and 1,000 kPa (14.5 psi to 145 psi). At higher water pressures it is essential to fit a reducer valve.

Connection to the water supply should be carried out by a qualified plumber and should incorporate a stopcock with a 3/4" thread. The stopcock should be fitted by a qualified plumber.

The washer-extractor is supplied as standard with two hoses, for connection to a hot and cold water supply.

The cold water inlet hose (blue stripes) must be connected to the on-site cold water supply via a 3/4" threaded union. It is **not** suitable for connection to a hot water supply.

 The connection point is subject to water pressure. Turn on the stopcock slowly and check for leaks. Correct the position of the washer and union if appropriate.

Maintenance and care

Only use a genuine Miele hose should you ever need a replacement. Miele hoses are tested to withstand pressure of at least 7,000 kPa (1,015 psi).

In order to protect the water inlet valve, the two dirt filters - one in the open end of the inlet hose, one at the inlet point in the washer-extractor must not be removed.

Extension hose

Longer hoses 8' 2 7/16" or 13' 1 1/2" (2.5 or 4 m) in length are available from Miele as optional accessories.

Installation and connection

Hot water connection

To keep electricity consumption costs down this washer-extractor and tumble dryer stack can be connected to a (ring) piped hot water supply, max. temperature 158°F (70°C). It is not economical to run it from an individual hot water supply if it is not in continuous use, as the water in the supply pipes cools down and more energy would be required to reheat the water. For hot water connection the same conditions apply as for cold water connection.

The inlet hose with the red stripes (hot water hose) is connected to the stopcock.

For operational reasons the washer-extractor must not be connected to hot water only.

If the washer-extractor is not connected to the hot water connection, the *Main wash water* setting must be set accordingly and the hot water inlet hose must be detached:

- Go to the *Settings/Supervisor level/Main wash water* and select the *Cold* option.

The program durations may be longer.

- Unscrew the inlet hose (hot water - red stripes).
- Plug the inlet connection with the blanking cap supplied.

Recycling water connection

The washer-extractor can be connected to a grey water supply.

- Unscrew the blanking cap from the grey water valve.
- Connect the additional inlet hose to this valve.

The *main wash* and *rinses* water settings must then be set as appropriate.

- Go to *Settings menu/Supervisor level* menu and select the *Grey water* option.

Connection to a very hot water supply

It is possible to connect the washer-extractor and tumble dryer stack to a hot water supply, 158°F (70°C) to a maximum of 185°F (85°C). A special inlet hose is required for this option. The machine must also be reprogrammed by a Miele service technician.

Water drainage

Drain pump

The washer-extractor drains via a drain pump with a delivery head of 3' 3" (1 m)*. The drain hose must not be kinked as this restricts drainage. The swivel elbow at the end of the hose can be turned in either direction, or can be detached if required, with a sharp twist and pull.

Drain hose connection:

1. Connected securely to a plastic drain pipe with a rubber nipple.
There is no need to use a non-return valve.
2. Connected securely to a standpipe.
3. Connected securely to a floor gully.


If required, the drain hose can be extended to a length of 16' 5" (5 m). The necessary parts can be purchased from Miele Department.

* For a delivery head of more than 3' 3" (1 m) (up to a max. of 5' 3" (1.6 m)) a second duo-drain pump is available with the corresponding kit from Miele.

Installation and connection

Electrical connection

The appliance stack is supplied with a connection cable and a NEMA L 15-30P plug.

 The voltage, rated load and fuse rating are given on the data plate. Please ensure these match the on-site electrical supply.


Connection to the electrical supply must only be carried out by a suitably qualified, competent and authorized person, in accordance with current local and national safety regulations.

Connection should be made via suitable isolators or plugs. Plug and socket connections will also make it easier to carry out mandatory safety checks, e.g. after commissioning or maintenance.

This machine must be connected to a permanent electrical supply so that the door can always be opened.

If the appliance stack is hard-wired, provision should be made on-site for all-pole simultaneous disconnection for both appliances.


The disconnection point and the plug and socket connections must be located immediately next to the appliances. Both must be easily recognizable and accessible for disconnection at any time.

 Lock-off or otherwise secure the device used for isolation to prevent unauthorized reconnection.

For extra safety, it is advisable to protect the appliances with suitable residual current devices (RCD) with a trip current of 30mA.

WARNING:
THIS APPLIANCE MUST BE GROUNDED

General

 Before operating the appliance stack, a suitable ducting system must be installed to carry the moist air from the dryer to the outside.

The appliance stack must be completely disconnected from the electrical supply while the ducting system is installed.

The venting outlet (e.g. in a wall) should be installed in such a way that the moist expelled air: .

. . . cannot be drawn back into the room in which the appliance is installed;
. . . cannot cause any damage to the building or other nuisance.

The dryer uses the room air. It is therefore essential to ensure adequate ventilation to avoid the **danger of asphyxia and toxic fumes** caused by gases given off by other appliances being drawn back into the room.

. . . Insufficient ventilation will also cause drying times to be considerably longer.

Where ducting is laid at a gradient, it is advisable to provide drainage for condensate at the lowest point, e.g. into a container or if possible an appropriately located floor gully.

Ventilation can be maintained by:

- an open window.
- a window contact switch.
This prevents the dryer being used when a window is shut.
- air inlets in the external wall which cannot be closed or blocked, min. 7' 9" (237 cm²).

Avoid:

- very long ducting systems.
- too many tight bends or corners.

Otherwise the drying result will be less effective, and it will take longer and use more energy.

Suitable materials

- for the ventilation ducting:
flexible ducting* or plastic piping with a diameter of at least 4" (100 mm).
- for venting to the outside:
a wall pipe kit* or a window vent kit*.

* optional accessory

Installation - extraction ducting

To calculate the total duct length

Friction against the inner walls of the vent ducting will slow down the expelled air as it passes through the ducting. An elbow, bend, non-return flap or wall vent creates more friction than a straight duct. The friction created by each of these is expressed as an **additional duct length factor**. The additional duct length factors are calculated by comparing the friction created by, for example, an elbow to that created by 3' 3" (1 m) of straight plastic piping (see Table 1).

The additional duct length factor for each item needs to be added together to ascertain the **total length** which will be needed for the venting system. The total duct length is a means of calculating the friction created by the venting system as a whole.

A larger **internal duct diameter** also helps reduce friction. If the total duct length is **more than 65' (20 m)**, the duct diameter should be increased (see Table II).

Procedure

1. First measure the distance requiring straight ducting. Multiply this amount by the corresponding additional length factor in **Table I**.
2. Establish the number of angles, bends etc., and add their additional length factors together with the help of **Table I**.
3. Add all the additional length factors to give the total duct length.

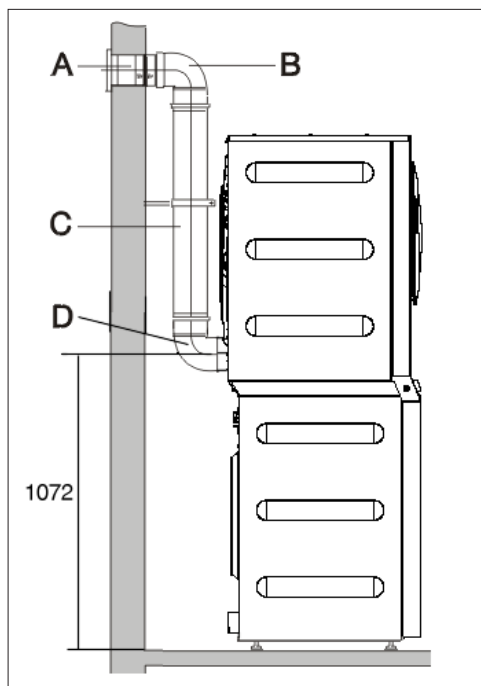
4. Refer to **Table II** for the appropriate duct diameter required.

Table I	
Component	Additional duct length factor
Flexible ducting* <ul style="list-style-type: none">– 3' 3" (1 m) <u>straight</u>– 45° angle Bend radius = 9 3/4" (0.25 m)– 90° angle Bend radius = 9 3/4" (0.25 m)	6' (1.8 m) 5' (1.5 m) 8' (2.5 m)
Flexible aluminium ducting*/plastic piping <ul style="list-style-type: none">– 3' 3" (1 m) <u>straight</u>, or 3' 3" (1 m) straight pipe– 45° angle Bend radius = 9 3/4" (0.25 m)– 90° angle (Bend radius = 9 3/4" (0.25 m)	3' (1 m) 2' (0.6 m) 3' (0.8 m)
Wall vent kit* or window vent kit* <ul style="list-style-type: none">– with louvred grill– with non-return flap (hinged flap)	3.8 m 5' (1.5 m)
Non-return flap* (see "Venting more than one dryer via the same venting system")	47' (14.3 m)
* optional accessory	

Table II	
Maximum total duct length allowable	Internal duct diameter required
66' (20 m)	4" (100 mm)
132' (40 m)	5" (125 mm)
262' (80 m)	6" (150 mm)

Installation - extraction ducting

Calculation example

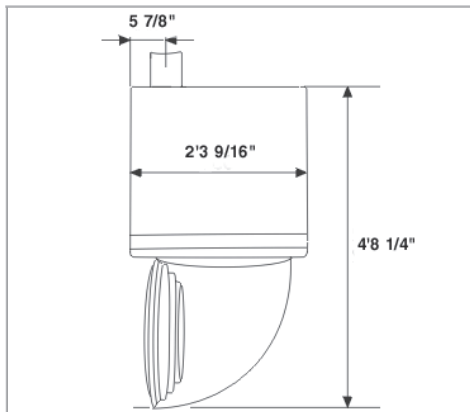


A	Wall pipe, with louvred vent	
	= 1 x 12' 6" (3.8 m)	= 12' 6" (3.8 m)
	Additional duct length	
B/D	2 bends, 90° plastic piping	
	= 2 x 2' 7 1/2" (0.8 m)	= 5' 3" (1.6 m)
	Additional duct length	
C	0.5 m plastic piping	
	= 0.5 x 3' 3" (1 m)	= 1' 8" (0.5 m)
	Additional duct length	
	Total duct length	= 19' 5" (5.9 m)

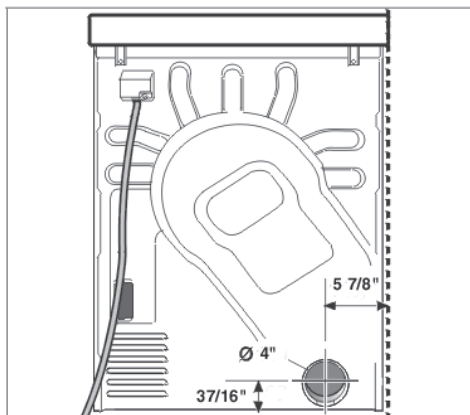
Result: A duct diameter of 4" (100 mm) is adequate as the total duct length is less than the 66' (20 m) specified in Table II.

Dimensions for exhaust connection

View from above



Rear view of the dryer



Installation - extraction ducting

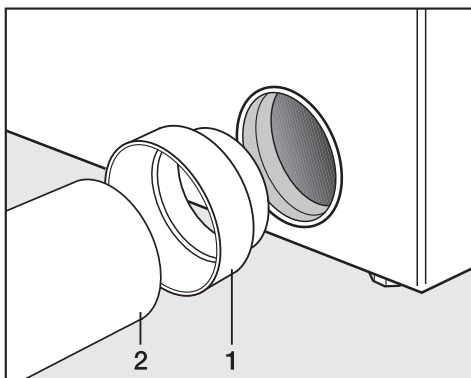
Venting system with plastic piping

Plastic piping can be fitted using an adapter.

The following items are required:

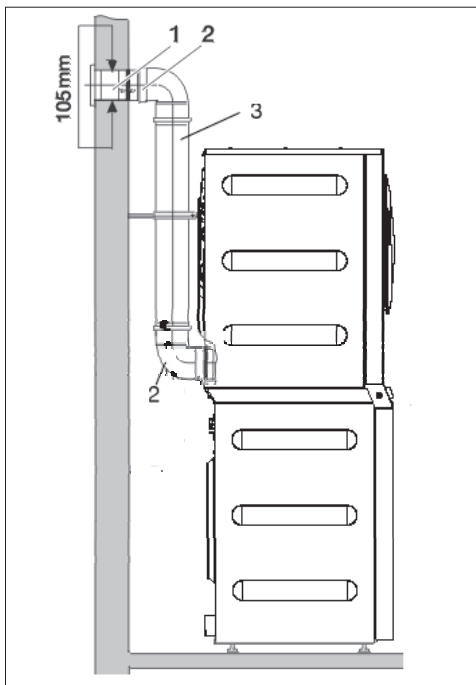
- an adapter.
- a wall vent kit* or window vent kit*.
- suitable plastic piping, available from a ventilation installer. Where the pipe diameter is more than 4" (100 mm), an adapter is necessary, e.g. 4" (100 mm) to 5" (125 mm) to connect the pipe to the dryer.

(* optional accessory)



- Fit the connecting piece (1) and pipe (2), as shown.

Example: Wall vent



105 mm = 4 1/8"

1. Wall vent kit
(separate fitting instructions are supplied with the Miele wall vent kit)
2. Adapter
3. Plastic piping,
diameter DN 100

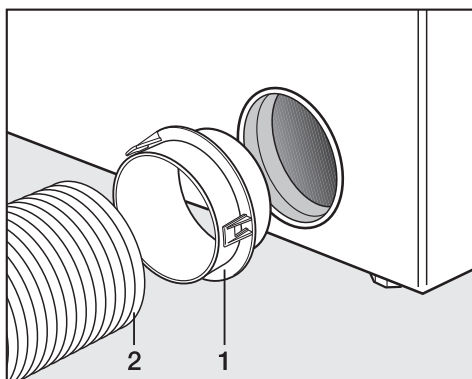
Venting system with flexible ducting

Flexible ducting can be fitted using an adapter.

The following items are required:


- an adapter.
- flexible ducting hose or Alu-flex ducting*
- a wall vent kit* or window vent kit*.

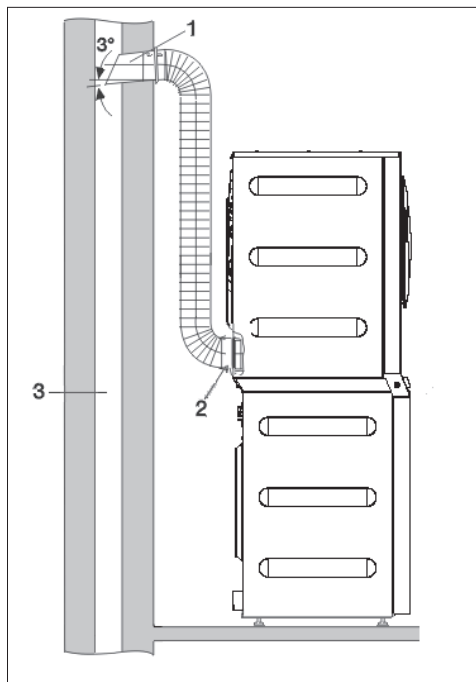
* (optional accessory)



- Fit the adapter (1) and flexible ducting hose* (2), as shown.

Example: Connection to an exhaust flue

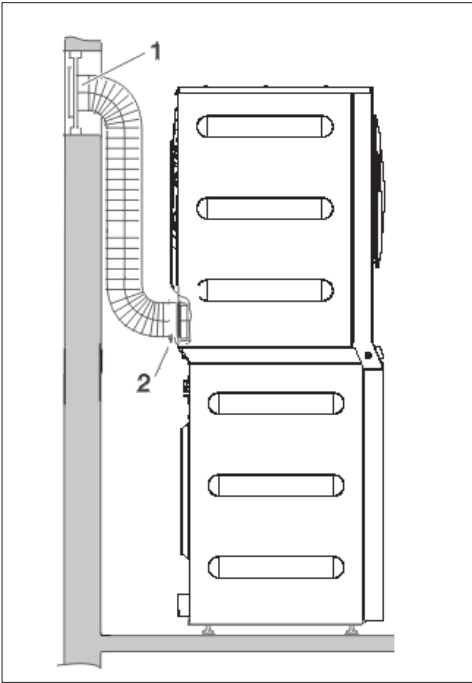
 The exhaust air must not be vented into a chimney or vent flue which is in use, nor should it be connected to ducting which ventilates rooms with fireplaces.



1. Pipe with connection piece
(= supplied with wall vent kit)
2. Adapter for flexible ducting hose
3. Exhaust flue insulated against damp

Installation - extraction ducting

Example: Window vent



1. Window vent kit (fitted in a "plexiglass" pane)
(separate fitting instructions are supplied with the Miele window vent kit)
2. Adapter for flexible ducting hose

Installation - extraction ducting

Venting more than one dryer via the same venting system

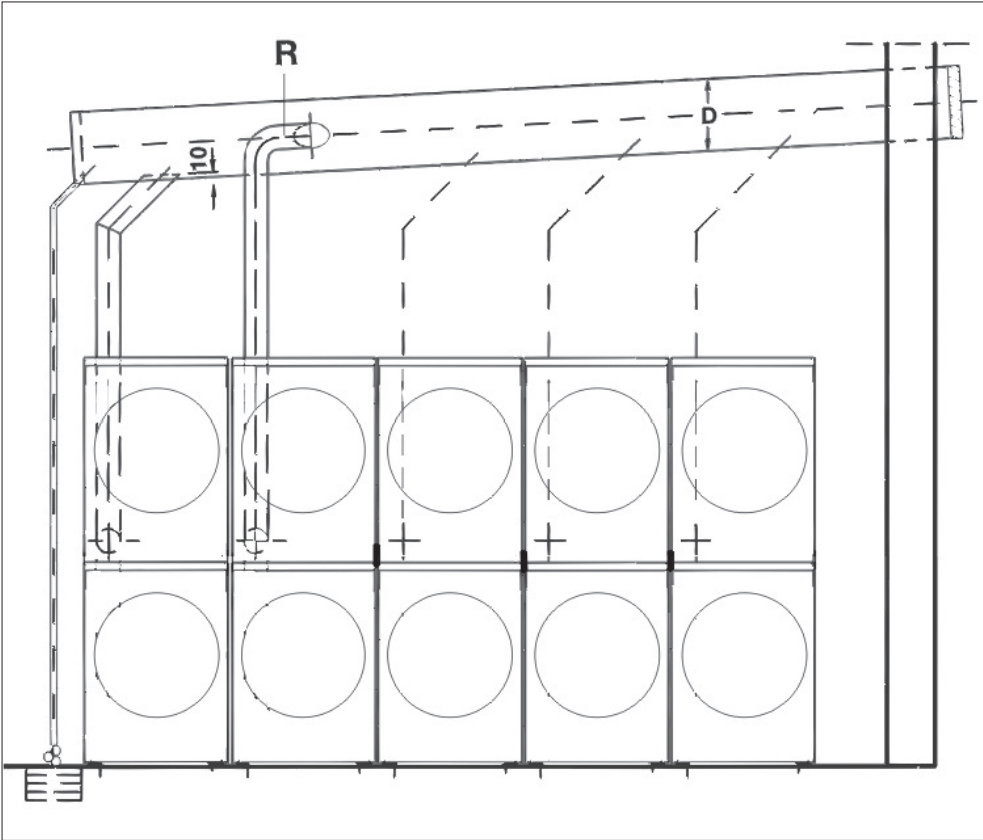
Building regulations approval may be required. Contact your local planning authority for advice.

⚠ For each dryer there **must** be one non-return flap **R** installed directly on the main venting duct. The items required for this are available as optional accessories (see next page).

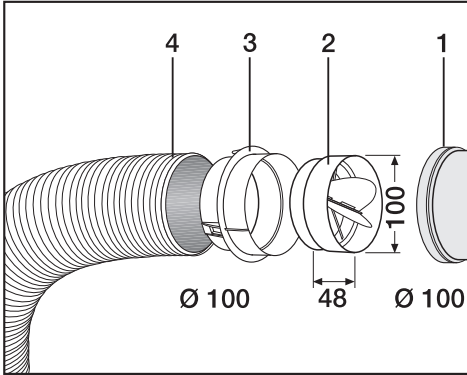
⚠ Otherwise condensation could trickle back into the dryers causing damage and endangering their electrical safety.

When installing 3 to max. 5 dryers, pipe diameter **D** must be increased.

Number of dryers	Magnification factor for the pipe diameter from Table II
3	1.25
4 - 5	1.5



Installation - extraction ducting



- 1 Connection to the main venting duct
- 2 Miele non-return flap*
- 3 Additional Miele adapter*
- 4 Miele flexible ducting hose*

■ Push the non-return flap (2) all the way into the adapter (3).

(* optional accessory)

Technical data

Height	76" (1930 mm)
Width	27 9/16" (700 mm)
Depth	29 5/8" (752 mm)
Depth with door open	49 1/8" (1248 mm)
Weight	461 lbs (209 kg)
Max. load bearing in operation	794 lbs (approx. 360 kg)
Capacity	20 lbs (8 kg) dry weight each weight of dry laundry
Voltage	See data plate
Connected load	See data plate
Fuse rating	See data plate
Lamp wattage	See data plate
Emission sound pressure level	< 70 dB
Minimum water flow pressure	100 kPa (14.5 psi)
Maximum water flow pressure	1000 kPa (145 psi)
Inlet hose length	5' 1" (1.55 m)
Power cord length	5' 10 7/8" (1.8 m)
Max. delivery head (drain pump version)	3' 3 3/8" (1 m)
Test certificates awarded	See data plate

**Please have the model and serial number
of your machine available when
contacting Technical Service.**

**Veillez indiquer le modèle et le numéro
de série de votre appareil lorsque vous
contactez le service à la clientèle.**

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