Operating instructions

Washer-Extractor

PW 6163
PW 6243
PW 6323

To avoid the risk of accidents or damage to the machine it is **essential** to read these instructions before installing, commissioning and using it for the first time.

en - GB

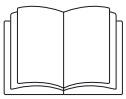
M.-Nr. 07 511 245

Contents

Warning and Safety instructions 4
Caring for the environment 8
Description of the machine 9
Control elements on the unclean side 10
Control elements on the clean side 11
Brief instructions 13
How to wash correctly 14
Sort the laundry 14
Max. load. 14
Add detergent 16
Detergent dispensing. 17
Select a programme. 18
Opening the door on the unclean side 20
Opening the door on the clean side 20
Card operation 22
Card access operation. 22
Additional options 23
Language selection 23
Start date and time. 23
Programme stop. 25
Programme cancellation 25
Changing the programme order 26
Optional modules 27
Liquid dispensers. 27
Peak load cut-out 29
Communication module 29
Operating data 29
Weighing sytem 32
Suds tap connection 32
Problem solving guide 33
Power cut during a wash programme
Emergency door release 33
Error messages 35
After sales service 36
Cleaning and care 37
Explanation of symbols on the data plate 39
Noise emissions 39
Notes for the installer 40
Installing and securing the machine 40
Transit fittings 40
Transit fittings on the weighing system 41
Plumbing 42
Dispenser system connections 43
Electrical connection 43
Connecting the dispenser pumps 44
Steam connection 44

Explanation of the Warning and Safety symbols on the machine

It is essential to read these operating instructions.


Please refer to specific instructions, e.g. Installation instructions

Caution, hot surfaces.

Caution, voltage up to 1000 volts.

Earthing

To avoid the risk of accidents and damage to the machine read the operating instructions carefully before using it for the first time. They contain important information about the installation, safety, use and maintenance of the machine. Keep these operating instructions in a safe place and ensure that new users are familiar with the content. Pass them on to any future owner of the machine.

Correct usage

▶ This machine is not designed for washing items which have been treated with dangerous or flammable substances.

▶ Only use the machine to wash items which are specified by the manufacturer to be machine-washable on the wash-care label.
Any other applications may be dangerous. The manufacturer is not liable for damage resulting from improper use or operation.

▶ For disinfection programmes, use appropriate temperatures, temperature holding times, suds ratios and disinfecting agents where necessary to achieve the required infection prophylaxis in accordance with current microbiological and health and safety regulations.

▶ If items being processed have to meet particular quality standards, e.g. particulate free rinse results, the procedure must be validated and the user must make regular quality checks to ensure appropriate standards are being maintained.

▶ Chemical dry cleaning agents must not be used in this machine. Most dry cleaning agents, e.g. benzine, pose a fire and explosion hazard.

▶ Petrol, paraffin, or any easily flammable liquid must not be stored or used near the machine. Do not use the machine lid as a storage shelf. **Fire and explosion risk!**

▶ When used in a commercial environment ensure that all operators are trained to use the machine correctly.

▶ This machine is not intended for outdoor use.

Technical and electrical safety

▶ This machine must be installed by an authorised technician only.

▶ The electrical safety of this machine can only be guaranteed if connected to a correctly installed earthing system on site. It is most important that this basic safety requirement is present and tested regularly, and where there is any doubt, the on-site electrical wiring 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).

▶ Do not damage, remove or bypass the safety features, fixtures and control elements of this machine.

▶ Do not use a machine with damaged controls or cables. These must be repaired before it is used again.

▶ Any removable outer panels must be back in place, and all moving or electrical parts shielded before the machine is switched on.

▶ The machine is only completely isolated from the electricity supply either when it is switched off at the isolator switch or the mains fuse has been withdrawn.

▶ Repairs to electrical or steam operated machines may only be carried out by a suitably qualified person in accordance with national and local safety regulations. Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorised work.

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

▶ The best materials are used in the manufacture of this machine, and every care is taken to check all parts. However, with time, deterioration of parts can occur, especially with such components as hoses, giving rise to leaks. Check the inlet hoses regularly for signs of wear and tear. Change in good time to avoid the risk of leaks and subsequent damage.

▶ Local regulations regarding regular inspection and maintenance of this machine must be observed. A log book should be kept with the machine.

Using the machine

▶ This machine is not intended for use by people with reduced physical, sensory or mental capabilities, or lack of experience and knowldege, unless they are supervised whilst using it or have been shown how to use it correctly by a person responsible for their safety.

▶ This machine is not a toy! To avoid the risk of injury never allow children to play on or near the machine, or to operate it themselves.

▶ Remember that the door glass will be hot when washing at very high temperatures. Do not let children touch it.

▶ Always close the door after use. This way you will avoid the danger of:

– children climbing onto or into the machine or hiding things in it.

– pets or other small animals climbing into it.

▶ Take care in the area of the hinges of the drum door. Danger of injury.

▶ The drum door must be able to be opened to its fullest extent. This area must not be restricted by doors or structural features.

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

▶ This manual does not cover procedures for medical devices. Please see the Programme Overview booklet for details about programmes and when to use them.

▶ It is the operator's responsiblity to ensure that the standard of disinfection in thermal as well as chemo thermal procedures is maintained (in accordance with § 18 IFSG and national health and safety regulations) by carrying out suitable validation tests. These procedures should be checked on a regular basis, either thermo-electrically using loggers, or bacteriologically with bio indicators. The operator must pay particular attention to maintaining the correct parameters in the procedure, including temperature and with chemo thermal programmes, the chemical concentration used. Disinfection programmes must not be interrupted, as this can have a limiting effect on the disinfection result.

▶ Disinfection only takes place in those programmes that include a disinfection stage. Other programmes do not include disinfection (see Programme overview, Hygiene).
If disinfected laundry is processed in these programmes and unloaded from the Clean side there is a risk of bacterial infection and contamination occuring.
Unloading laundry that has not been disinfected on the Clean side is the responsibility of the operator.

▶ The water used for washing is a suds solution and **is not drinking water**.
It must be drained away via an appropriate drainage system.

▶ The washer-extractor may only be operated without supervision if there is a floor drain (gully) in the immediate vacinity.

▶ Cleaning and disinfecting agents often contain chlorine-based substances. Do not let such agents come into contact with the stainless steel surfaces, as the chlorine can have a corrosive effect. Use chlorine-free agents for washing and disinfecting and also for cleaning stainless steel surfaces to protect them from corrosion.
If in doubt about a particular agent contact the manufacturer for advice.
If any agent containing chlorine comes into contact with the stainless steel surfaces, wipe it away immediately with clean water. Then dry with a soft cloth.

▶ Confirm with the detergent manufacturer that their product can be used in combination with another type of product. This is particularly important 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 manufacturer cannot be held liable for the effect of a chemical cleaning agent on laundry or the machine, even when the use of such agents is recommended. Please note that changes to the product which have not been made known by the manufacturer can affect the quality of the wash result.

▶ Only use dyes, colour run and dye removers specified as being suitable for use in washing machines. Always observe the manufacturer's instructions carefully.

▶ Laundry that was soiled with biological oils or fat should be washed using a suitable detergent and /or wash programme. It must also be inspected after washing. If oils or fat are not sufficiently removed they could cause the laundry to self ignite during the drying process.

▶ Do not use a pressure washer or hose to clean the machine.

Using accessories

▶ Accessory parts may only be fitted when expressly approved by Miele. If spare parts or accessories from other manufacturers are used, this will invalidate the guarantee, and Miele cannot accept liability.

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 chorline neutralising 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.

Disposing of your old machine

▶Before disposing of an old machine, first make the door lock unusable. This way you will prevent children from accidentally locking themselves in and endangering their lives.

Keep these instructions in a safe and accessible place.

Caring for the environment

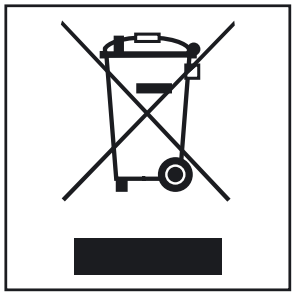
Disposing of the packing material

The packaging is designed to protect the machine during transportation. The materials used are environmentally friendly for disposal.
Rather than just throwing these materials away, please ensure that they are recycled.

⚠ Packaging materials such as plastic film and bags must be kept out of the reach of babies and children. Danger of suffocation.

Disposing of your old machine

Electrical and electronic machines 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 dispose of your old it with your general waste.



Please dispose of it at your local community waste collection/recycling centre.
Please contact your dealer, your local waste collection centre or scrap merchant about recycling schemes.

Please store it out of the reach of children whilst awaiting disposal.

Tips on saving energy

To save energy and water, try to load the maximum for the programme selected. Underloading is uneconomical. Overloading gives a poorer quality of wash result and may cause unnecessary creasing.

Make sure that your laundry is thoroughly spun before drying. This saves time and energy.

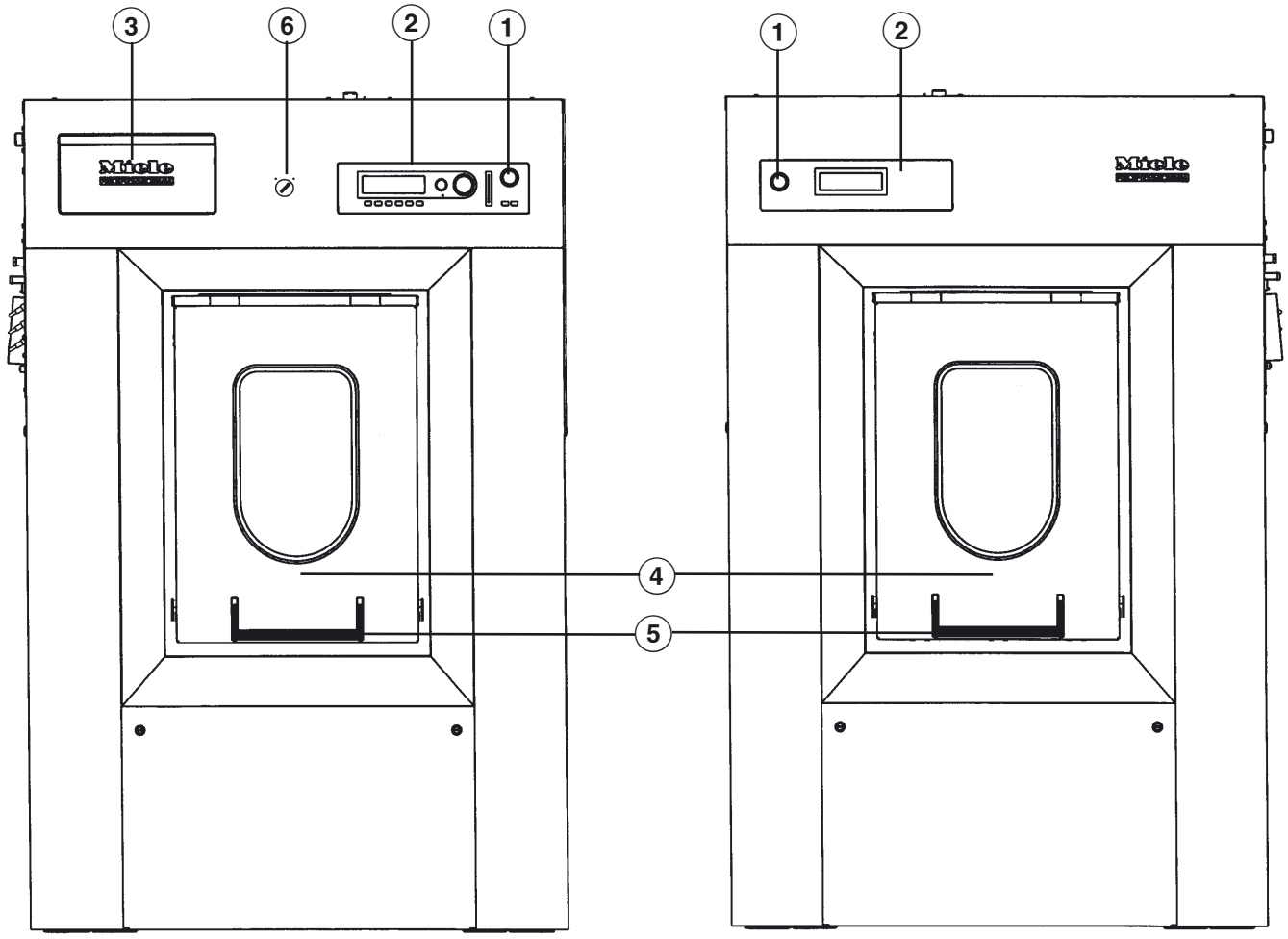
Carrying out the final rinse with hot water helps to reduce the residual moisture level, and the residual heat in the laundry will help keep processing time down in the dryer, thus saving energy.

Follow detergent manufacturer's advice regarding the right amount of detergent to use.
This will depend on the size of the load, the water hardness level and the amount of soiling in the laundry.

Chose the correct programme (with pre-wash or intensive options selected) and the correct temperature.

Unclean side (loading side)

Clean side (unloading side)



① **Emergency stop switch**

Press the red button to switch the machine off.

② **Control panel**

③ **Detergent dispenser drawer**

Pull the handle to open the compartment.

④ **Door**

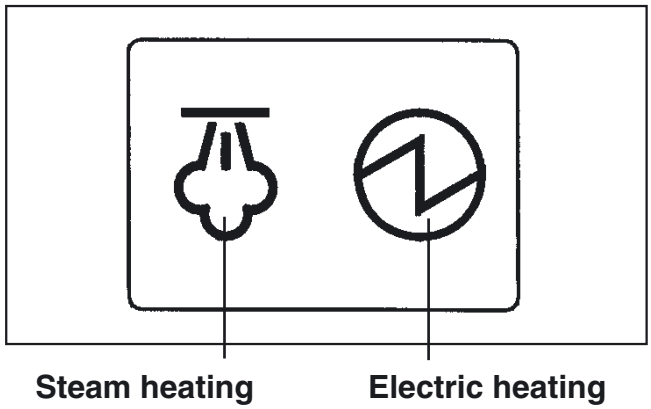
The door is opened by the handle. To open pull the handle upwards and push it downwards to close the door. **Do not use force** to open it.

⑤ **Door handle**

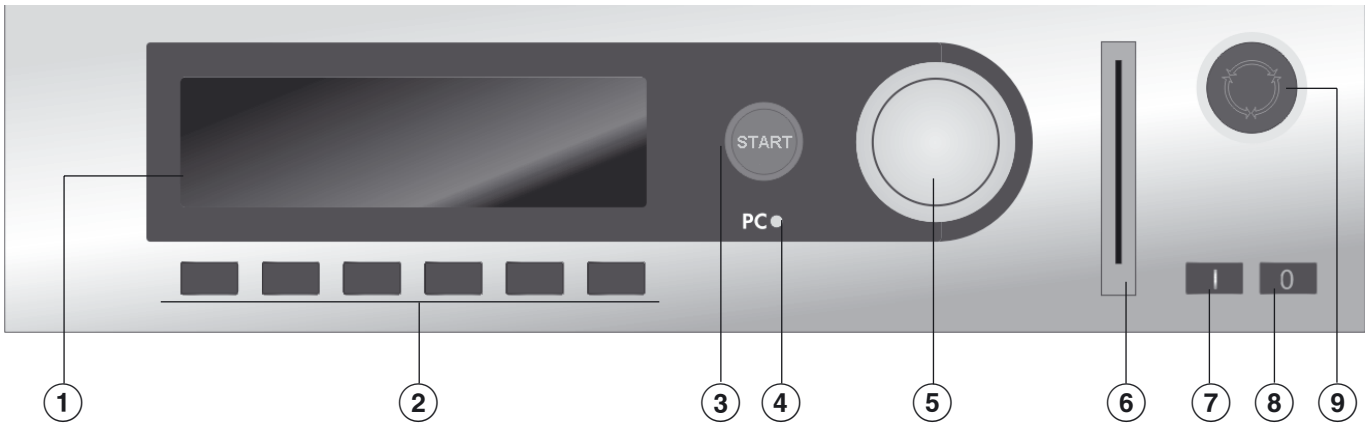
The door handle is fitted with a safety device to ensure that the door lock functions correctly. If you try and open the door when it is locked the handle will go up but the door will stay shut. Push the handle back down and wait for the programme to finish before trying to open the door again.

⑥ **Heating switch (special version only)**

This enables you to choose between steam or electric heating.



Steam heating **Electric heating**



Control elements on the unclean side

① Display

1	Thermal disinfection	90 °C
2	Thermal disinfection RKI	90 °C
3	Chemo-thermal disin.	60 °C

After switching on the "Welcome" display will appear for a short time followed by the programme list. The most recently used programme is highlighted.

② Function buttons

These buttons have specific functions depending on the status of the machine. These functions will be listed in the display above the buttons and will be highlighted once selected.

If the machine is reprogrammed to "Direct button allocation" the first 6 programmes listed in the display can be selected directly via these buttons.

③ START button

The lightring will flash when a selected programme can be started. Pressing the Start button will start the programme. After a programme has started, pressing this button will show the display as it was before the start of the programme.

④ PC / Optical interface

This interface is used for transferring data to the control unit from a PC and vice versa. Connection is from the front via the optical interface on the control panel.

⑤ Rotary selector

Turning the selector brings up options and menus in the display.
Pressing the selector confirms your selection.

⑥ Chip card reader

When a chip card is inserted, the programmes on the chip card can be used. Insert the card in the direction of the arrow (on the card).

⑦ I Mains on switch

Switches the machine on.

⑧ 0 Mains off switch

Switches the machine off.

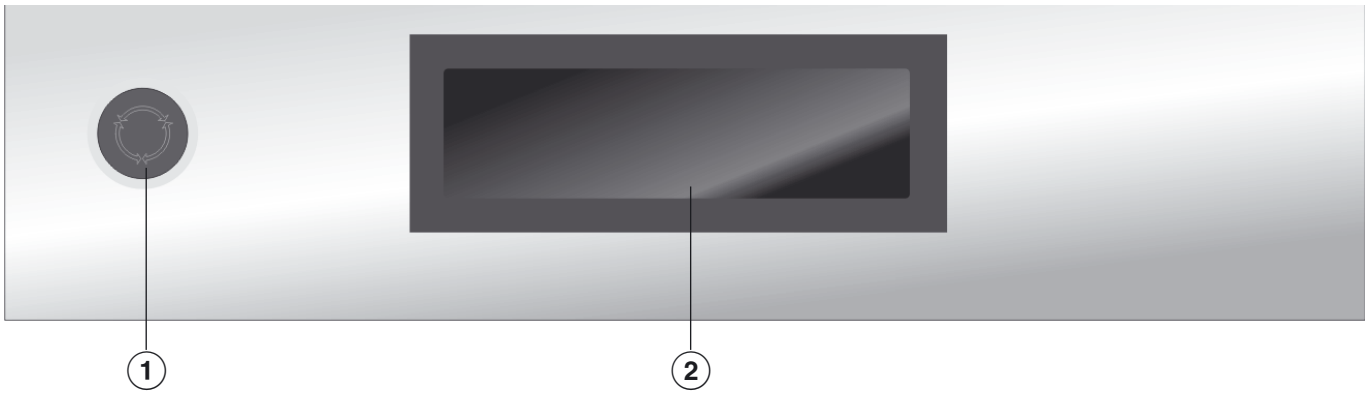
⑨ Emergency stop switch

Only for use in an emergency.
Press the red button to switch the machine off. After the problem has been resolved, turn the red dial clockwise to release it.

Then press the START button to continue the interrupted programme.

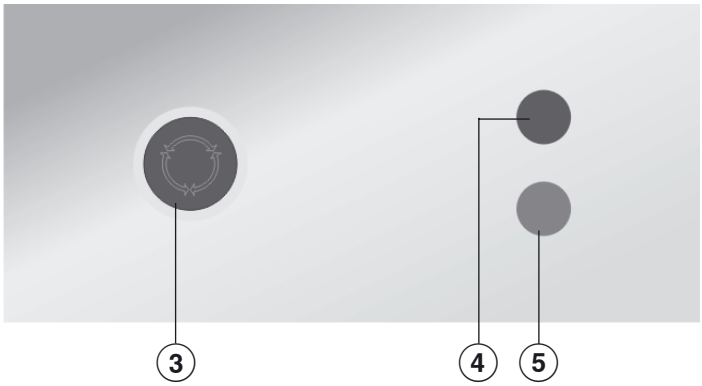
Control elements on the clean side

Full version



① **Emergency stop switch**
② **Display**

Basic version



③ **Emergency stop switch**
④ **Red "Programme stop" indicator light**

This lights up when a programme has stopped and when a fault has caused the programme to stop. It also comes on if peak-load is active.

⑤ **Green "Programme finished" indicator light**

This lights up after a programme has started, and flashes when the programme has finished to indicate that the door can be opened.

Function buttons

Pressing the button activates the function and pressing the button again deactivates it.

Stop/End
The function button on the right-hand side is used as the End button after the start of a programme.
Once it has been pressed the selected programme is stopped or a programme which has been stopped is finished.

+ Block plus
The relevant programme block (e.g. Pre-wash) is added to the programme.

Starch stop
Press this button if you wish to laundry to be starched.

Without spin
Press this button if you do not want the laundry to be spun after being rinsed.

Settings
Press this button to switch to another language temporarily.

Start time
Pressing this button before the start of a programme displays the message that a start time can be selected.

i Information
Press this button to call up programme information in the display.

Water drainage

Manual control
See the programming instruction booklet.

Change order
The order of the programme in progress can be changed or programme blocks can be repeated.

Back
Takes you back to the previous display.

▼/▲ Indicates that there is more information on next or previous line

Save
See the programming instruction booklet.

Programme locked
Once a locked programme has been started, the End button can only be used to stop and cancel it during the first 1 minute. The programme finishes on the "clean side".

Programme unlocked
This unlocks a locked programme.

Dispensing

Dispensing switched off

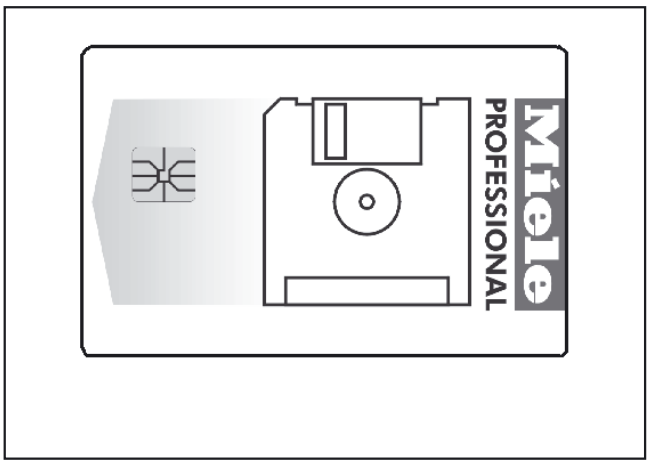
Operating data

If when the drum is empty the load display is not showing "00,0", you will need to press the **-> I <-** button to reset it to 0.

Data transfer

Supervisor Chip card

The chip card is supplied without any programmes.
See the Programming Manual for information on transferring data from the control unit to the chip card and vice versa.



The chip card can store a maximum of 30 programmes, each with 6 blocks.

The back of the chip card can be labelled.

Sort the laundry

Only use the machine to wash items which are specified by the manufacturer to be machine-washable on the wash-care label.
Any other applications may be dangerous. The manufacturer is not liable for damage resulting from improper use or operation.

■ Empty any pockets.

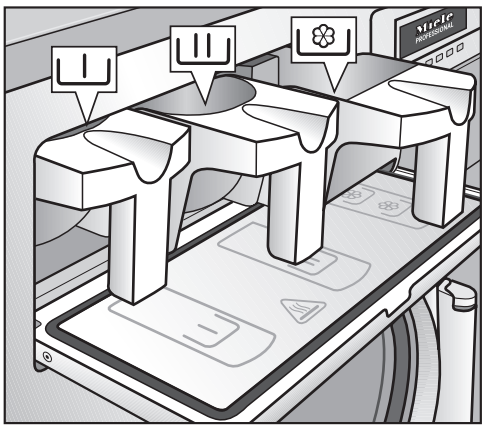
Switch the machine on and load the drum

■ Press the "On" **I** button in.

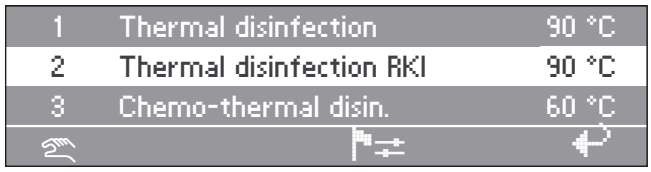
■ Open the door and load the drum.

■ Close the drum and then the door.

Add detergent



■ Dispense agents as follows:
Detergent for the main wash into compartment II,
Detergent for the pre-wash into compartment I,
Fabric conditioner into compartment ❀,
Any additional liquid agents into the compartment behind the fabric conditioner ❀ compartment
(if this facility has been programmed into the machine).

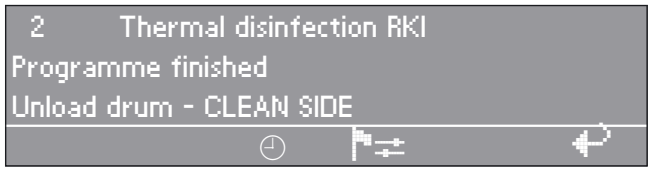


■ Use the rotary selector to highlight the programme you want to use.

Press the START button

The programme will begin.

The following message will appear in the display when the programme has finished



The green "Programme finished" indicator light will then start flashing on the clean side.

Locked programmes finish on the clean side, unlocked ones on the unclean side.

■ To open the door at the end of the programme pull on the handle, open the drum and then unload the laundry.

If no more laundry is to be processed:

■ Close the drum and then close the door on the clean side.

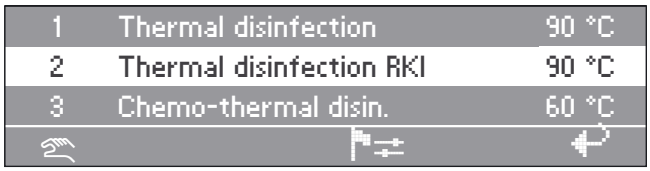
Once it has been closed the drum will automatically relocate to the unclean side.

■ Switch the machine off by pressing the "Off" **0** button.

The machine must be commissioned by an authorised Miele service technician or dealer before it is used for the first time.

- Open the on-site stopcocks for water and depending on the type of heating, for steam.
- Switch on the on-site mains switch.
- Press the "On" **I** button to switch the machine on.

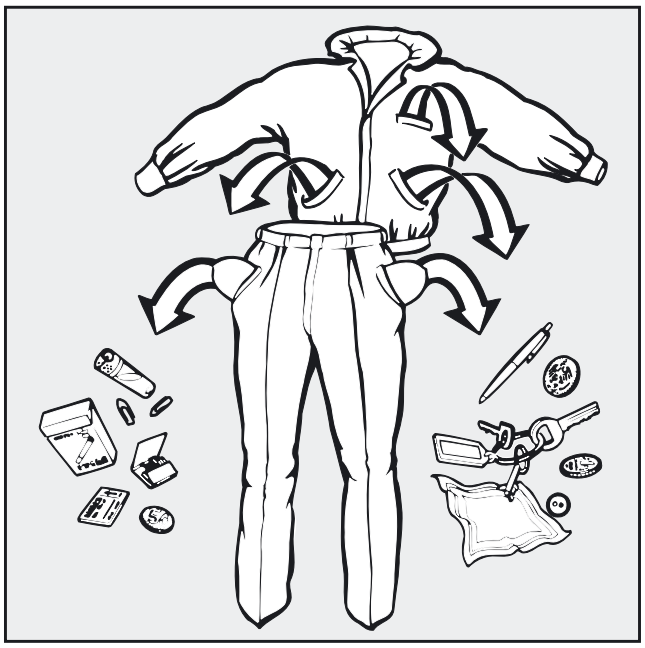
A "Welcome" message will appear in the display.



This is followed by the programme list (with the most recently used programme highlighted).

Turn the rotary dial to highlight the programme you want. The programme can be then started by simply pressing the START button.

Sort the laundry



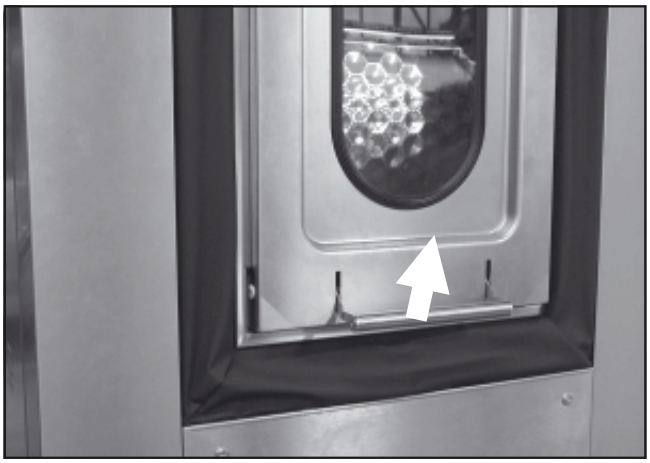
- Empty any pockets.

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

Max. load

(Dry weight of laundry)

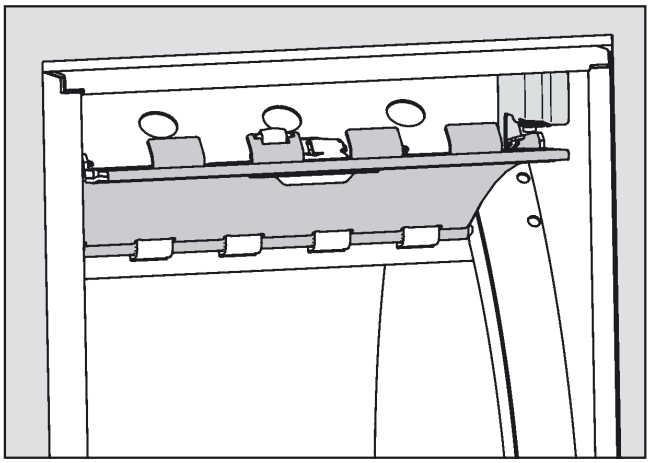
PW 6163	PW 6243	PW 6323
max. 16 kg	max. 24 kg	max. 32 kg



■ Unlock and open the door.
Gas compression stays raise the door upwards.

Open the drum:

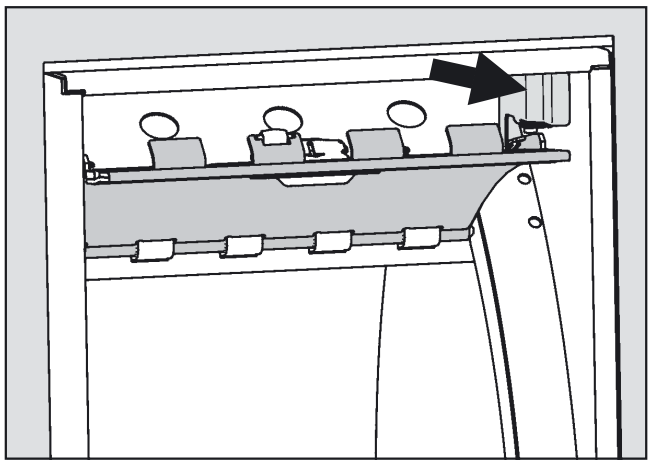
■ To open the drum, press against the locking device and at the same time press both sides of the drum opening inwards to release them.



■ Then secure the upper section into its retainers.

■ Load the laundry

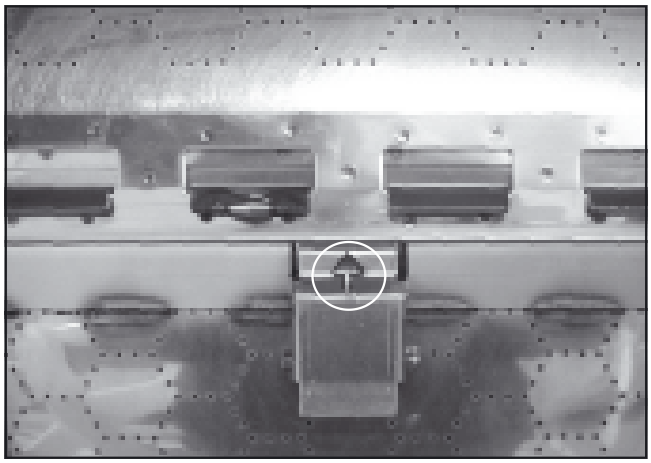
Close the drum:



■ Release the upper drum section from its retainers.

■ First bring down the section with the locking device, then close the other section making sure the locking device engages and is secure.

When closing the drum door make sure laundry does not get trapped.



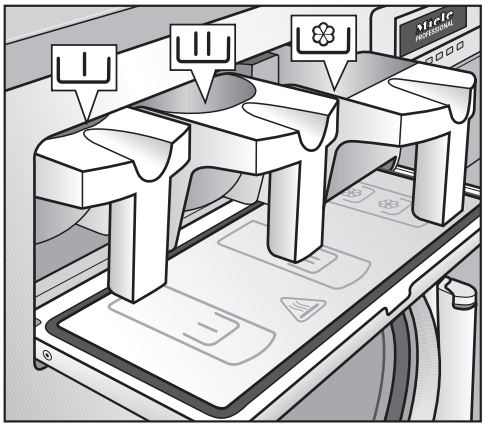
■ To ensure that the drum door is correctly closed make sure that the arrow on the locking device is clearly visible.

⚠ If these procedures are not followed there is a danger of the drum door opening and causing considerable damage.

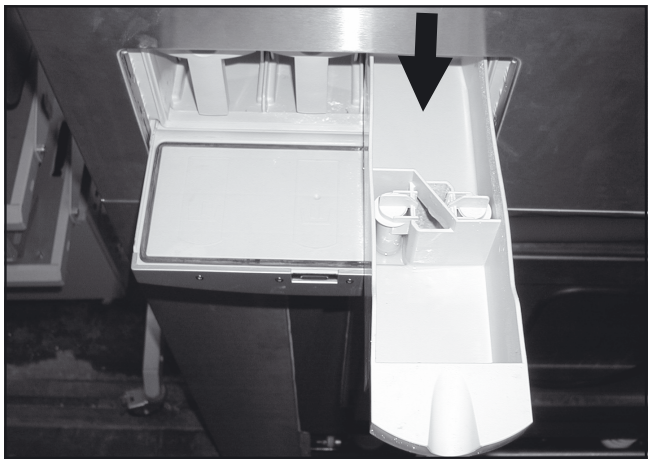
■ To prevent the risk of trapping your fingers, hold the door handle with both hands to lower and close the door.

The drum door should be checked regularly to make sure it is working properly. Any fluff that has built up around the drum door must be removed.

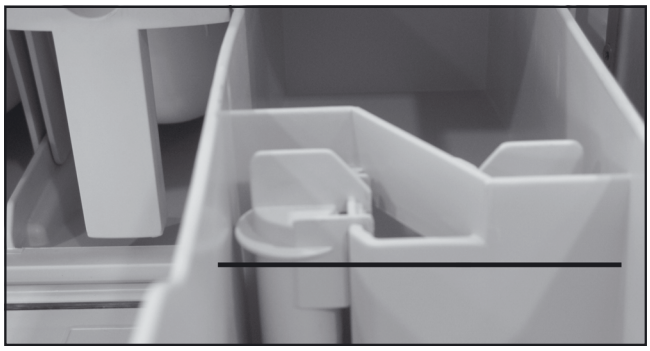
Add detergent



■ With the standard programmes, place detergent for the main wash in compartment II and if wished, detergent for the Pre-wash in compartment I. Place fabric conditioner in the front section of compartment ❀.



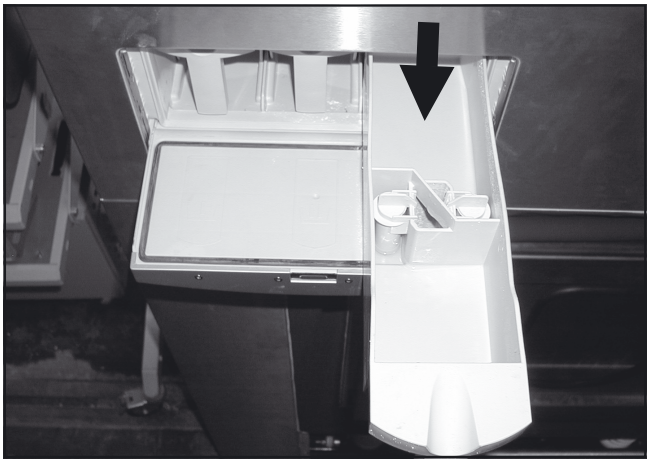
■ Place other liquid washing additives, e.g. liquid starch, in the rear section of the compartment ❀ (only if the machine has been programmed for this function).



■ Do not exceed the level marker in compartment ❀. Otherwise the agent will run through the suction tube into the suds container.

Bleaching agents

Only use bleaching agents on textiles with the △ symbol on the wash care label.



Liquid bleaching agent may only be placed in the compartment designated for it. This is to ensure that the agent is added automatically at the second rinse. Liquid bleaching agents should only be used with coloureds if the textile manufacturer's wash care label states that the textile is colour fast and suitable for bleaching.

A 3rd rinse cycle must be programmed in if bleach is to be used (see Profitronic programming manual).

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

Only use dyes, colour run, dye removers and limescale removers which are specified as being suitable for use in washing machines. Always observe the manufacturer's instructions carefully.

Detergent dispensing

It is important to avoid adding too much detergent as this causes excessive foam.

– Do not use detergents which create a lot of foam.

– Follow the detergent manufacturer's instructions for use.

The right amount to dispense will depend on the following:

– The size of the load

– The water hardness level

– The soiling level of the load

The amount to dispense

Take the water hardness into account and follow the detergent manufacturer's instructions on the packaging.

The water hardness level

Hard-ness range	Water properties	Hardness level in mmol/l	German scale °d
I	Soft	0 - 1.3	0 - 7
II	Medium	1.3 - 2.5	7 - 14
III	Hard	2.5 - 3.8	14 - 21
IV	Very hard	Above 3.8	Above 21

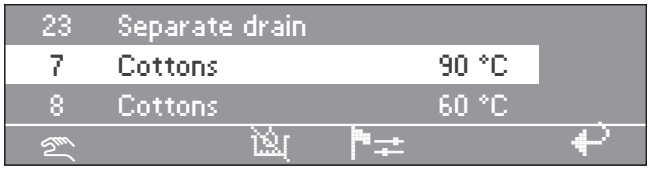
Check with your local water supplier if you do not know the hardness level in your area.

Select a programme

(see Programme overview, Hygiene)

■ Turn the rotary dial to select a programme from the list (e.g. Programme **7** Cottons).

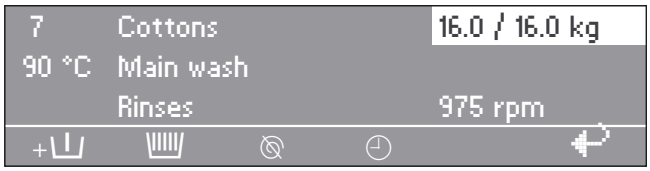
The following (example) will appear in the display:



Select the Pre-wash, Starch stop or Without spin additional option

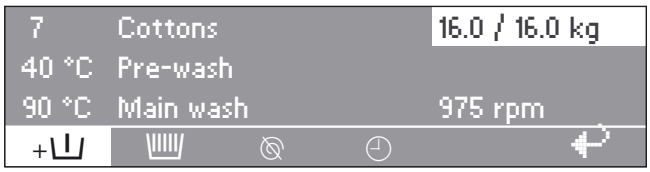
■ Confirm the selection of the programme by pressing the rotary dial.

The following (example) will appear in the display:



■ If wished you can now select the Pre-wash programme block, by pressing the +⊔ function button.

When the +⊔ function button is pressed, the following will appear in the display:



"+⊔" is highlighted.
Press the function button again to deselect the function.

Press the Starch stop button if the laundry is to be starched.

Press the Without spin button if you do not want the laundry to be spun after being rinsed.

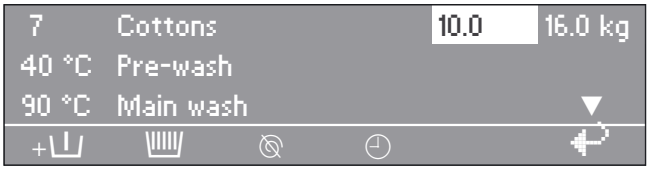
If you do not wish to make any further alterations to the programme:

■ Press the START button. The programme will start.

If you wish to make alterations before the start of the programme, e.g. to the load size, temperature or spin speed:

Load weight

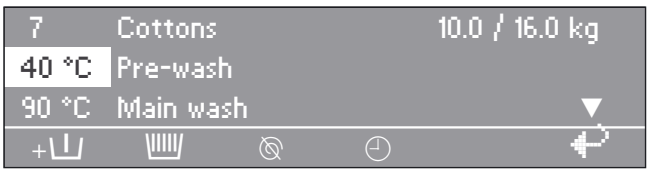
You can enter the weight of the load manually before the start of the programme.



■ Turn the rotary dial until "Load" (10.0 / 16.00 kg) is highlighted. Press the dial to confirm your selection. Turn the dial to alter the weight and confirm your selection by pressing it.

Temperature in 1 °C increments from cold, 15 to max. 95 °C .

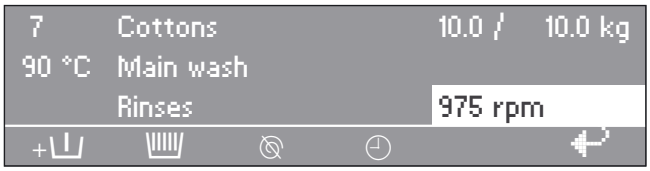
■ Turn the rotary dial to select the "Temperature" field (40°C for pre-wash) and press it to confirm your selection.



■ Turn the rotary dial to alter the temperature value and then press it to confirm your selection.

Spin speed in 25 rpm increments from 300 to max.

- Turn the rotary dial to select the "Spin speed" field (for the final spin) and press it to confirm your selection.



- Turn the rotary dial to alter the spin speed and then press it to confirm your selection.

Maximum spin speeds

PW 6163	PW 6243	PW 6323
1025 rpm	975 rpm	975 rpm

- Press the START button. The programme will start.

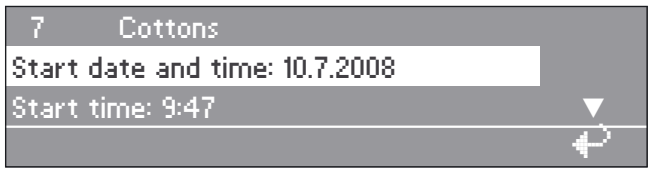
Once a programme has started the programme sequence will appear in the display.

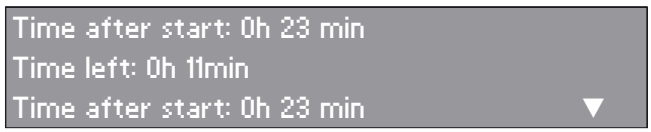
In the 2nd line of the display, pre-wash in this example, the actual suds temperature will also be shown.

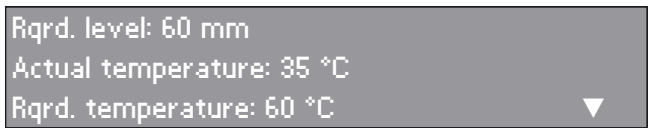
Once the pre-wash programme block has finished the programme block for the main wash will appear in the 2nd line of the display together with the actual suds temperature. Under that the following programme block will be listed. Rinse 1 in this example.

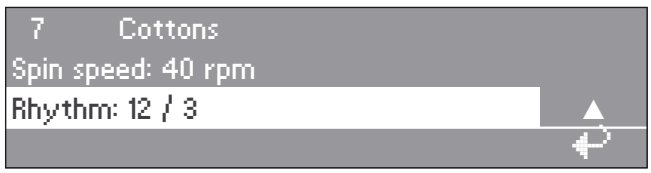
The time that the programme will finish is shown on the right hand side of the display.

Pressing the **i** "Information" button will call up further information about the programme e.g.:





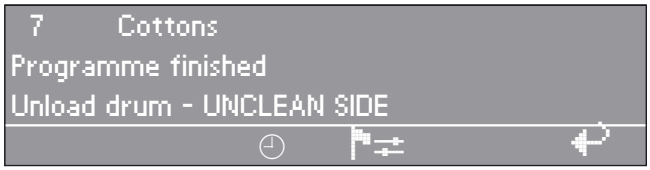




- Press the "Back" button to return to the programme sequence display.

Opening the door on the unclean side

The following message will appear in the display at the end of the programme as long as there is no water in the machine and the drum is stationary:



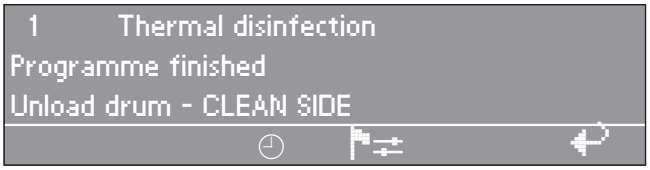
At the same time an acoustic buzzer will sound for 5 seconds to let you know that the programme has finished.

- Pull the door handle to open the drum door. **Do not use force** to open it.
- Press against the locking device and at the same time press both sides of the drum opening inwards to release the locking device.
  Carefully open out both sides.
- Then secure the upper section into its retainers.
- Unload the drum.

Opening the door on the clean side

Locked programmes always finish on the "clean side".

The following message will appear in the display at the end of the programme as long as there is no water in the machine and the drum is stationary:



With the **Basic** version of the machine:
The green "Programme finished" indicator light will start flashing to let you know the programme has finished.

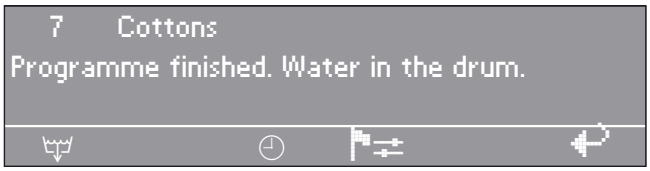
At the same time an acoustic buzzer will sound for 5 seconds to let you know that the programme has finished.

- Pull the door handle to open the drum door. **Do not use force** to open it.
- Press against the locking device and at the same time press both sides of the drum opening inwards to release the locking device.
  Carefully open out both sides.
- Then secure the upper section into its retainers.
- Unload the drum.
- Close the drum and then the door.

The door on the clean side must be closed after the drum has been unloaded.

Once it has been closed the drum will automatically relocate to the unclean side.

If the programme has been interrupted with water in the drum or during a spin, for example, the following message will appear in the display:



or

- Press the "Water drainage" function button or select the Separate spin programme and press the START button.

The programme finishes on the "unclean side".

- Open the door at the end of the programme.

If no more laundry is to be processed:

- Switch the machine off by pressing the "Off" **0** button and then switch off at the on-site mains switch.
- Close all stopcocks for water and steam as applicable.

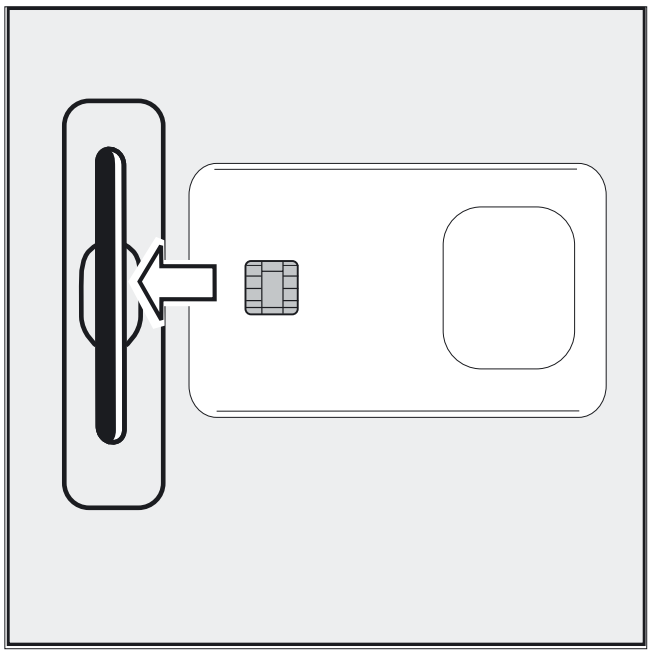
To position the drum door on the clean side

The "Drum locating" programme is used to rotate the drum opening to the clean side. This programme can be used to direct a load in the drum to the clean side. It is the operator's responsibility to make sure that the load is hygienically clean.

Cards on which a programme has been saved can only be used on the machine type for which they have been written. Unwritten cards can be used universally.

■ Press the "On" **I** button to switch the machine on.

The Welcome screen will appear.



■ Insert the card in the reader.

The programmes listed on the card will appear in the display.

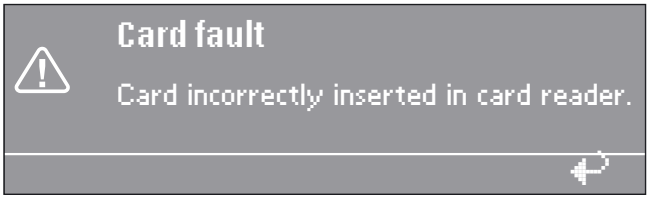
■ Use the rotary dial to highlight the programme you want to use. Press the rotary dial to select the programme you have highlighted.

■ Press the START button. The programme will start.

After pressing the START button you can remove the card from the reader. The programme is deleted from the machine's memory once it has finished.

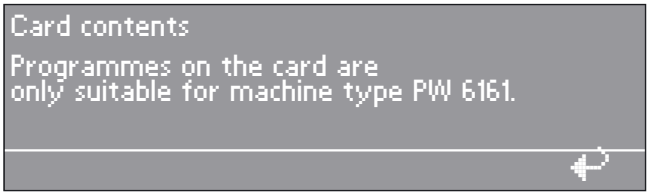
⚠ Never insert any other type of card or object into the card reader!

If the card is inserted the wrong way round the following message will appear in the display:



■ Insert the card the right way round in the card reader.

If the card is not the right one for the machine it is being used in the following message will appear in the display:



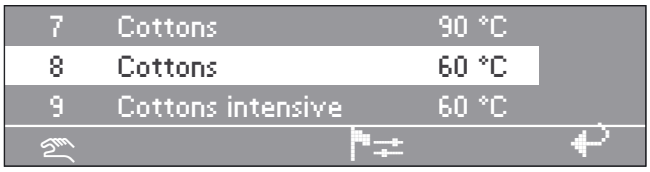
■ Insert the correct card for the machine in the card reader.

Card access operation

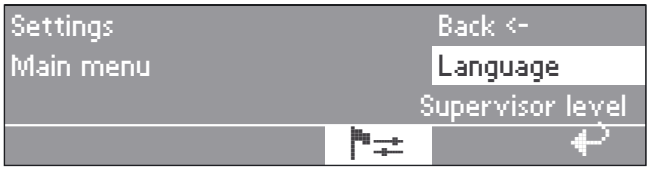
Programmes requiring special procedures are written on to a card which is then used to run the programme.
"Card access" has to be activated via the supervisor level in the machine.
The machine will then only run programmes by using a card (on which **one** programme has been saved). Programmes in the machine's control unit cannot then be accessed.

Language selection

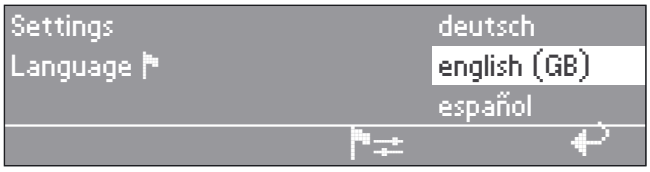
The language shown in the display can be changed briefly before starting a programme if you wish. To do so use the button underneath the flag symbol.
The language will revert back to the default setting 5 minutes after the end of a programme with the door open.



If you press the button the following will appear in the display:



■ Press the rotary dial to confirm your selection of the "Language" menu.



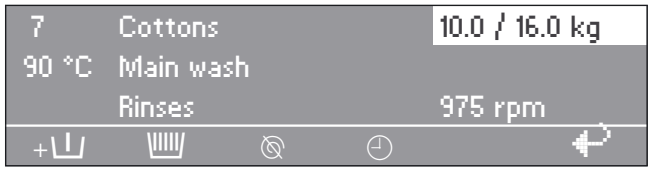
■ Turn the rotary dial to highlight the language you want and then press the dial to confirm your selection.

Start date and time

If you want a programme to start at a later time use the button for "Start date and time".

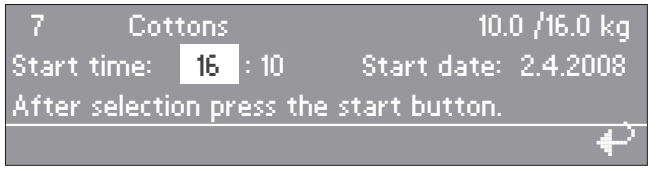
To set a date and time

After selecting your programme, e.g. Cottons in the example here, the following will appear in the display:



■ Press the "Start date and time" button.

The following (example) will appear in the display:



The actual time and date will then appear. The input field for hours will be highlighted.

■ Press the rotary dial to select the hour. Turn the rotary dial to alter the hour and then press it to confirm your selection.

■ Then turn the rotary dial to select the "Minutes" field and press it to confirm your selection.
Turn the dial to alter the minutes and then press it to confirm your selection.

■ Then turn the rotary dial to select the "Start date" field and press it to confirm your selection.
Turn the dial to alter the date and then press it to confirm your selection.

■ Do the same for the month and the year.

After setting the required start date and time:

- Press the START button and the programme selected will commence at the time specified.

The display will now contain the following information:

The current time and date as well as the start time will be displayed.

- If the door is opened again you will have to press the START button again.

To cancel the start time and date function

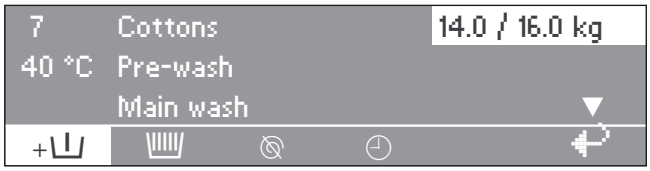
Press the "Start date and time" button again or press the "Back", and any changes will be rejected.

With pre-wash

For heavily soiled laundry a pre-wash can be added by pressing the "Block+" button before starting a programme.

Pressing the button again deselects the option.

When the "Blockplus" + button is pressed, the following will appear in the display:



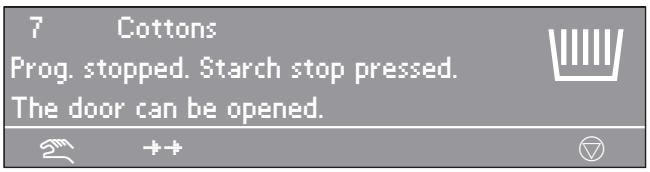
The "+" field will be highlighted in the display.

Starch

Starching via the dispenser drawer

Starch can be selected with all the standard programmes (except for Separate spin and Separate drain) before starting a programme by selecting the "Starch stop" option. The field will be highlighted in the display.

Pressing the button again deselects the option.



Once the "Starch stop" programme stage is reached the words "Starch stop" will start flashing in the display.

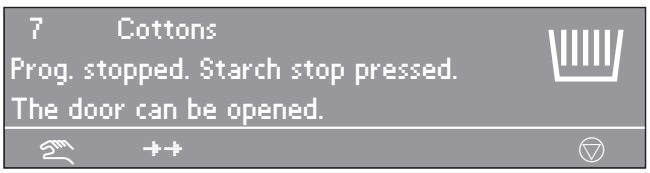
Make up the starch solution following the manufacturer's instructions on the packaging and then add it to the front section of compartment . If necessary dilute the starch with water. The wash time is automatically increased by 4 minutes.

Press the START button to continue the programme.

Dispensing directly into the drum (suds container)

Make the starch up following the manufacturer's instructions on the packaging. Once the "Starch stop" programme stage has been reached open the door and add the starch. Close the drum door.

The following message will appear in the display again:

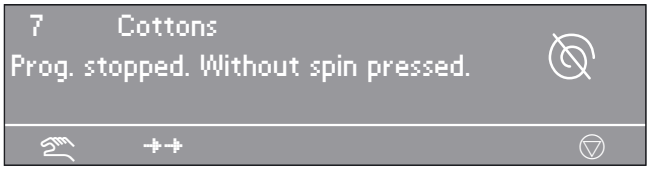


Press the START button and the programme selected will commence.

Without spin

"Without spin" can be selected with all the standard programmes (except for Separate spin and Separate drain) before starting a programme by selecting the "Without spin" option.
The field will be highlighted in the display.

Pressing the button again deselects the option.



Once the "Without spin" programme stage is reached the words "Without spin" will start flashing in the display.

To finish the programme without spinning and with water left in the drum press the button.

To continue with a spin press the START button.

Programme stop

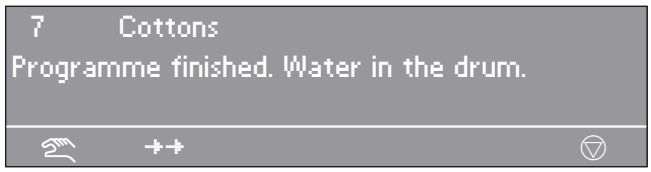
To halt the programme press the button. The programme remains stationary.

To continue the programme press the START button.

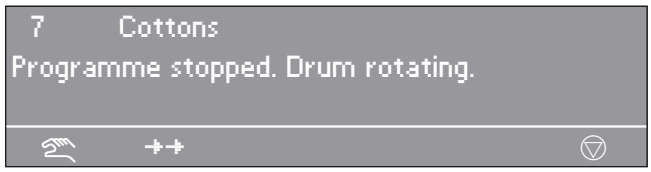
The programme will finish on the Unclean side.

Programme cancellation

Press the button twice in succession to cancel a programme. The programme will finish on the Unclean side.
If there is still water in the machine or if it was cancelled during spinning the following (example) will appear in the display:



or:



To open the door press the "Water drainage" button or select the Separate spin programme and press the START button.

Programme cancelled with a locked programme

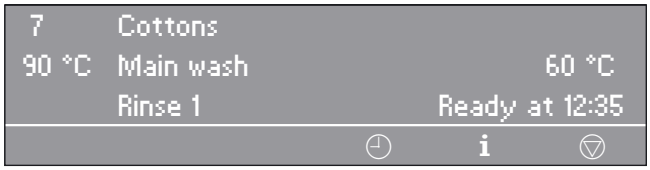
It is not possible to stop or cancel a programme if the programme is locked.

The display will show that the machine is locked if you try to cancel the programme with the ▽ button.

To cancel the programme you will first have to select the 🔓 "Unlocked" function and then enter a password to unlock the programme.

After entering the password the following will show in the display:

Press the 🖫 "Save" button to return to the normal display and the programme can now be cancelled.



Press the ▽ button twice. The programme will finish on the Unclean side.

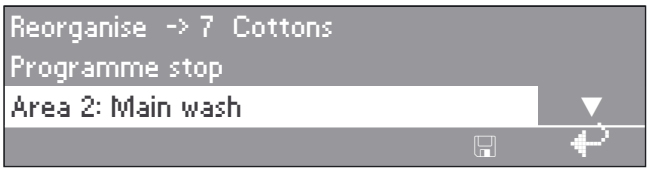
Changing the programme order

The order of the programme in progress can be changed or programme blocks can be repeated.

- Press the ▽ button and the programme will stop.

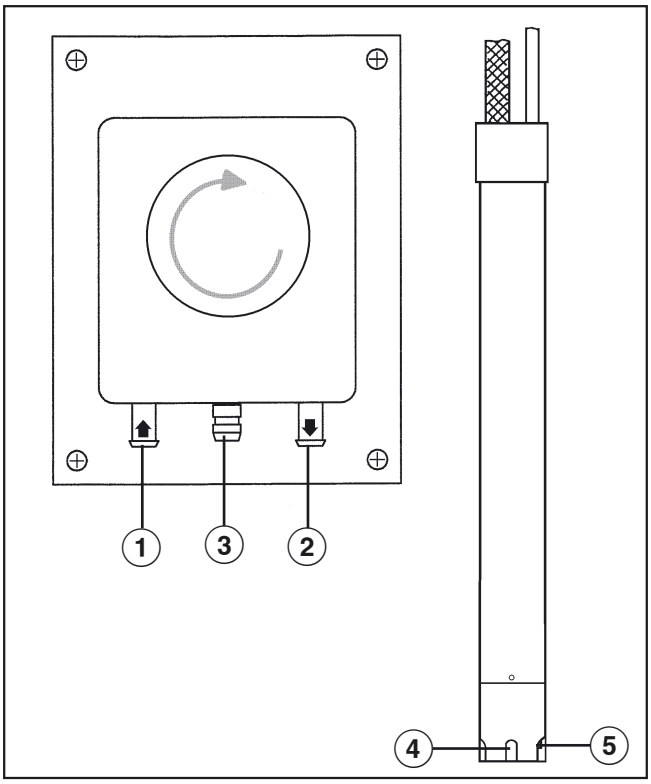
- After pressing the ⇢⇢ button the current area, block or step will appear in the display.

  See also "Programme structure" in the Programming Manual.



- Turn the rotary dial to alter the area and then press it to confirm your selection. Select 1 Pre-wash, 2 Main wash or 3 Rinses and confirm your selection.
- Turn the rotary dial to alter the block and then press it to confirm your selection. Select Pre-wash 1-10, Main wash 1-10 or Rinses 1-10 and confirm your selection.
- Turn the rotary dial to alter the step and then press it to confirm your selection. Select the required programme step and confirm your selection.
- Press the 🖫 "Save" button and then press START to reorganise the programme order or press the ⮐ "Back" button to override the programme stop and not change the programme order.

Liquid dispensers



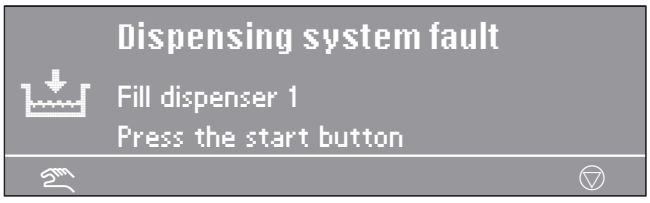
① Hose connection socket (suction side)

② Hose connection socket (pressure side)

③ Leakage outlet (in case of damaged hose)

④ Suction inlet

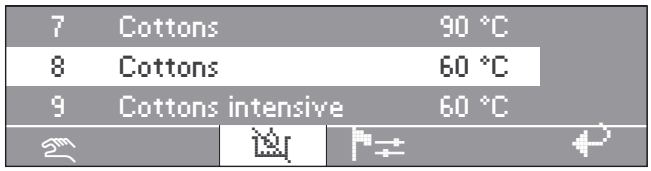
⑤ Level checker for empty indicator. The pump and the machine will switch off automatically if a liquid agent container is empty.



The machine will warn you that the liquid dispensing agent level is insufficient.

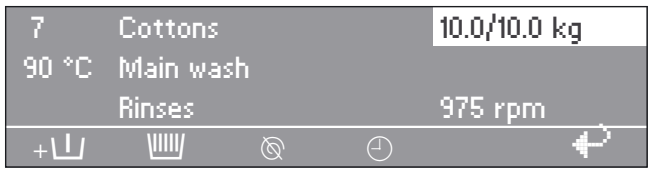
The programme can be restarted after refilling the liquid agent container by pressing the START button.

To deselect the liquid dispensing system



You can switch off the liquid dispensing system manually before starting a programme by setting the "Dispensing" system to off.

Once the programme has started dispensing will not take place via the dispenser pumps and the following will appear in the display:



Dispensing amount

Please follow the manufacturer's instructions on the packaging for dispensing requirements.

⚠ This is particularly important 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. Confirm with the detergent manufacturer that their product can be used in combination with another type of product.

Liquid agents should be allowed to settle to room temperature before use to ensure that their viscosity level is correct and thus ensure the correct amount is dispensed.

Commissioning the dispensing pumps

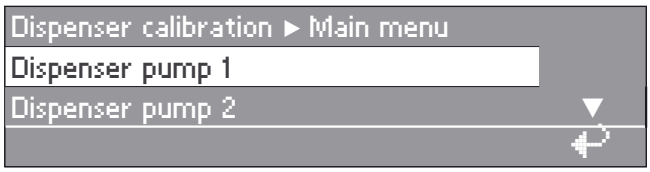
Before the liquid dispensing pumps can be used the liquid agent must be drawn up into the system and the amount to be dispensed set.

Dispenser calibration

The dispensers need to be calibrated to ensure the dispenser pumps supply the correct amount of liquid agent.

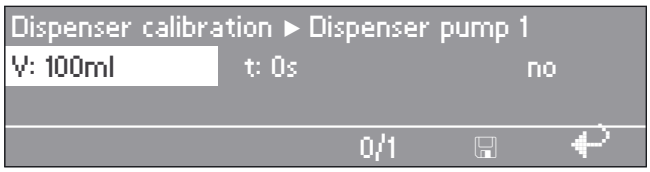
To calibrate the dispensers with the machine switched off:

- Press and hold in button 2.
- Then switch the machine on with the "On" switch.



Selection choice: Dispenser pumps 1 to 13

After selecting a dispenser pump the following message will appear in the display:

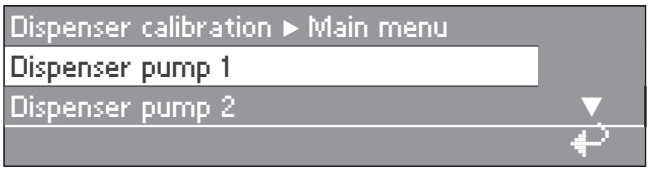


The amount to dispense can be set between 0 and 9999 ml in 1 ml increments.

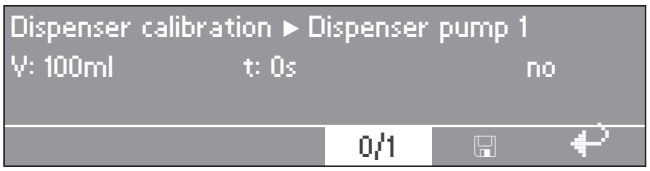
- Press the 0/1 multi-function button and the dispenser hose will start to fill. Press the 0/1 button again to stop filling the hose.
- Direct the hose of the dispenser pump being calibrated into a suitable measuring flask.

⚠ Avoid contact with the skin and eyes, and wear suitable protective clothing.

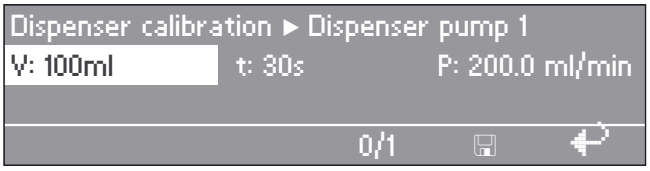
- Press the ↩ "Back" button to return to the main menu.



- Select dispenser pump.



- Press button 0/1.
  To stop the pump press the 0/1 button again, or it will switch off automatically after a period of 60 seconds.
- Measure the amount collected in the measuring flask.



- Enter this value in field "V:". Flow rate P in ml/min will be calculated electronically.
- Press the 🖫 "Save" button to save the values measured in memory.
- Reconnect the hose.

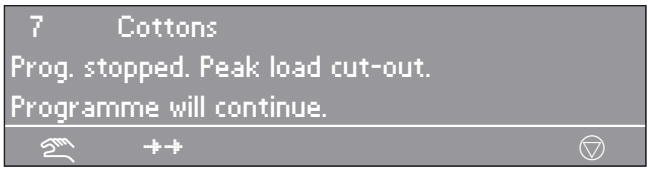
Cleaning and maintaining the dispensing system

The dispensing system should be flushed through with clean warm water every two weeks and before any longer down-times to prevent the risk of blockages and corrosion.

- The suction pipes should be cleaned through with water.
- Place the suction pipes in a container of hot water (40 - 50°C).
- Then use the dispenser calibration system to operate each pump until the dispensing system is thoroughly flushed through.
- After reconnecting all parts check all connections, hoses, dispensers and seals for leakages.

Peak load cut-out

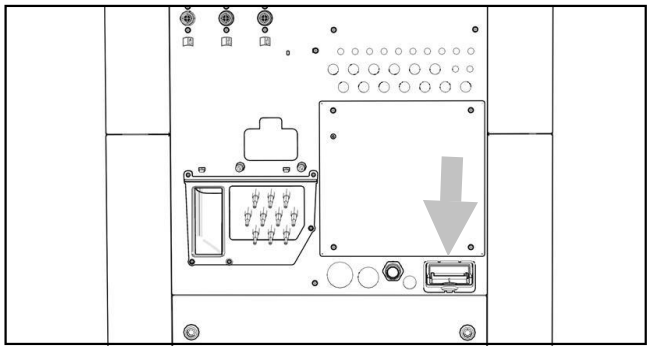
If the peak-load cut out function is activated the heating will switch itself off and any programme running will be stopped. The following message will appear in the display:



Once the peak load has finished the programme will continue automatically as before.

Communication module

This machine can be linked to a PC via a communication module.

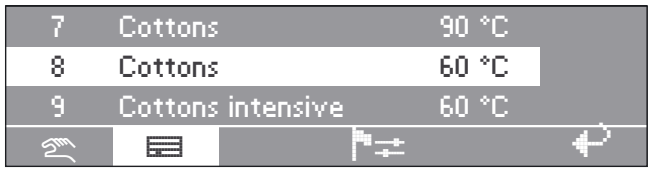


The shaft for the communication module is located on the side of the machine.

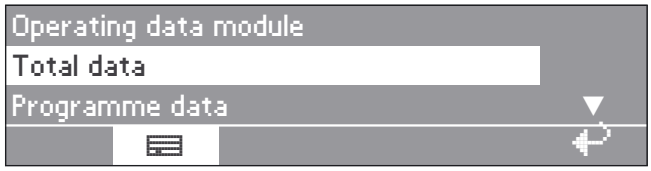
An editor programme is available from Miele.

Operating data

By pressing the "Operating data" button the operating data module can be used to read or delete operating data either before the start of a programme, or after it has finished.



After pressing the button the following will appear in the display:



Selection choice:

– Total data

In this option all programme data is collated and summarised.

– Programme data

Programme data contains all the data called up during a programme.

– Delete data

- Module (Total data including programme data)

- Total data (only delete total data)

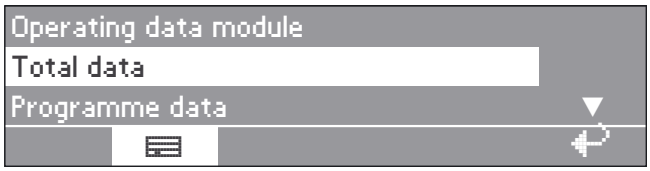
- Programme data (only delete programme data)

Pressing the button again deselects the "Operating data" option.

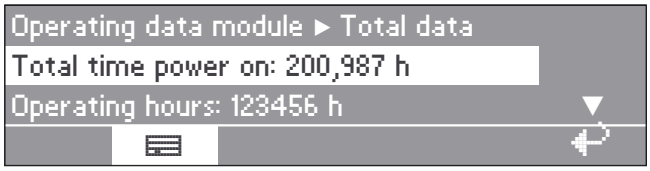
If there is no more memory available in the operating data module a message will appear after pressing the START button to say that the operating data will be overwritten.

If you press the "Back" button or do not press the START button within 30 seconds the display will revert to the way it was before starting the programme.

Total data



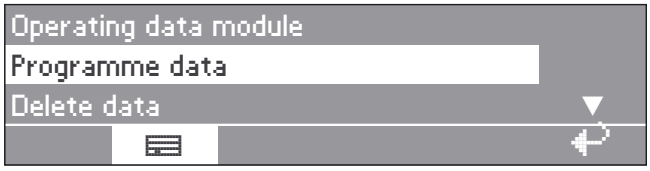
After selecting Total data the following (example) will appear in the display:



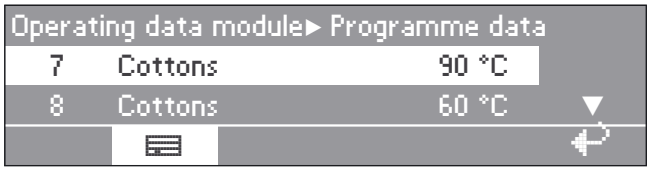
Other options:

Total time power on: 200,987 h
Operating hours: 123,456 h
Duration heating active: 73,456 h
Duration drive motor active: 93,456 h
Programme starts: 23,456
Programme stops: 567
Programme cancellations: 67
Water volume: 1,234,567 l
Amount of laundry: 1,234,567 kg
Liquid agent: 2,345 l
Energy: 12,345,678 kWh

Programme data



After selecting Programme data the following (example) will appear in the display:



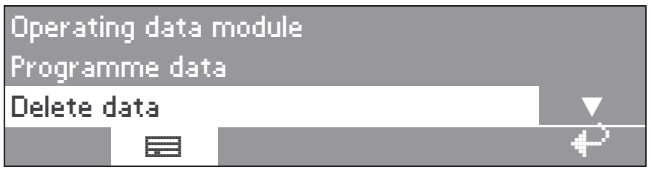
Select the programme you want from the list and press the rotary dial to call up a list of all programme starts including date and start time for that programme (Cottons 90°C in the example).

Select the required programme start from the list for programme 7 Cottons and confirm your choice by pressing the rotary dial.

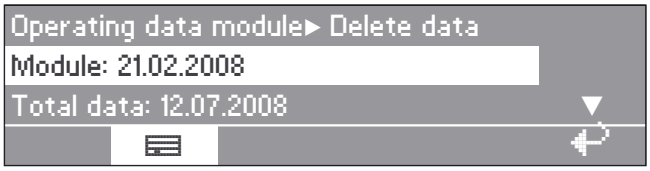
Other options:

Town: Abingdon
Serial number: 12345678
Machine type: PW 6163
Amount of laundry: 13 kg
+ Button: Activated
Starch stop button: Activated
Without spin button: Not activated
Programme start: 11:30
Programme finished: 12:05
Total operating time: 0 h 35 min
Electrical energy: 12.5 kWh
Gas energy: 0 kWh
Steam energy: 0 kWh
Total volume of water: 140 l
Max. water temperature: 95 °C
Max. drain temperature: 45 °C
Programme change: 2 (after making your selection and pressing the rotary dial only the last 3 stops and starts will be displayed.)
Programme fault: None (only the last 3 faults are saved.)
Area 1: Pre-wash (after making your selection and pressing the rotary dial you can select the area or the block.)
Operating time: 6 min
Water volume: 20 l
Dispensing phase 1: Amount ml (after making your selection and pressing the rotary dial 6 dispensings are displayed.)
Max. temperature: 12 °C
Holding time: 6 min
Dispensing phase 2: No

Delete data



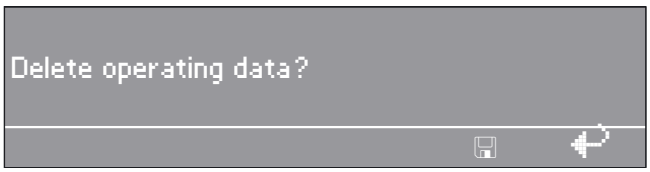
After selecting Delete data the following message will appear in the display:



The module menu option can be used to delete the total data and programme data from the operating data memory.
The total data option can only be used to delete the total data from the operating data.
The programme data option can only be used to delete programme data from the operating data.

After making your selection and pressing the rotary dial you will be prompted to enter your password.

After keying in your password or inserting your supervisor level key card in the reader the following security prompt will appear in the display:



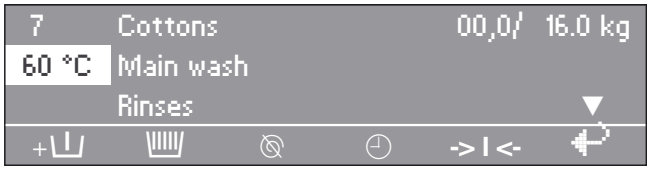
After pressing the 🖫 button the data will be deleted!

Weighing sytem

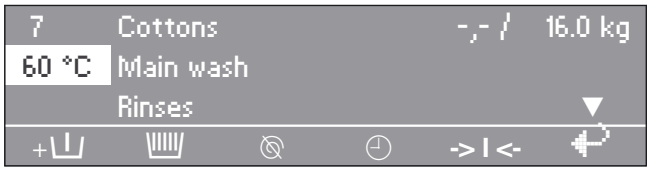
If the machine has been equipped with a weighing system module the weight of the laundry in the machine will be displayed in 0.2 kg increments. The maximum load for the programme selected will show next to the actual weight in the drum.

Please make sure that there is nothing on or leaning against the machine as these will be weighed with the laundry.

If when the drum is empty the load display is not showing "00,0", you will need to press the **-> I <-** "button to set it to 0".



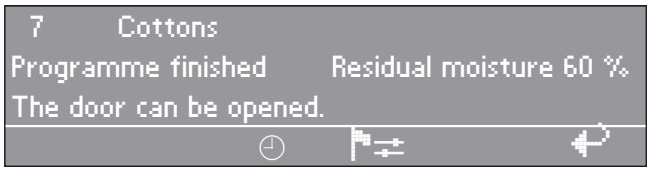
If after calibrating the sensor to 0 there was still laundry in the drum the following will appear in the display:



Press the **-> I <-** button again to set it to 0.

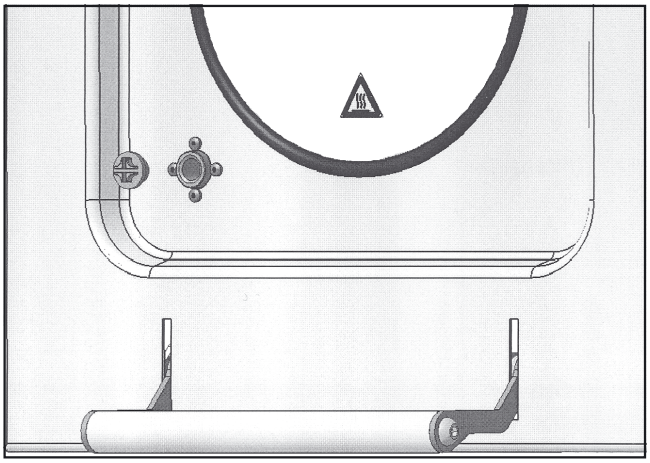
If there is too much laundry in the drum, e.g. because it is wet, a nominal load will be calculated after starting the programme and this value will also be saved by the operating data module.

At the end of the programme when the drum has stopped rotating the display will show the residual moisture content of the laundry.



Suds tap connection

For analysing suds in the required programme stage.



- Unscrew the suds tap connection cap on the door with a suitable screwdriver.
- Guide the hose through the opening (∅13 mm).
- Connect a syringe or pipette to the hose and extract a sample of suds.
- Screw the cap back in.

Power cut during a wash programme
Emergency door release

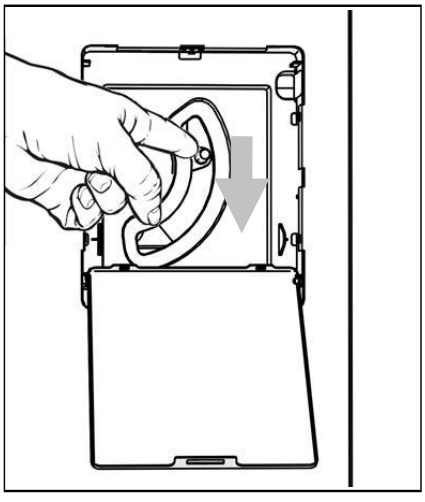
With a short power cut:
The programme remains in the last position, and when power is restored the following message appears in the display:

Press the START button and the programme selected will continue.

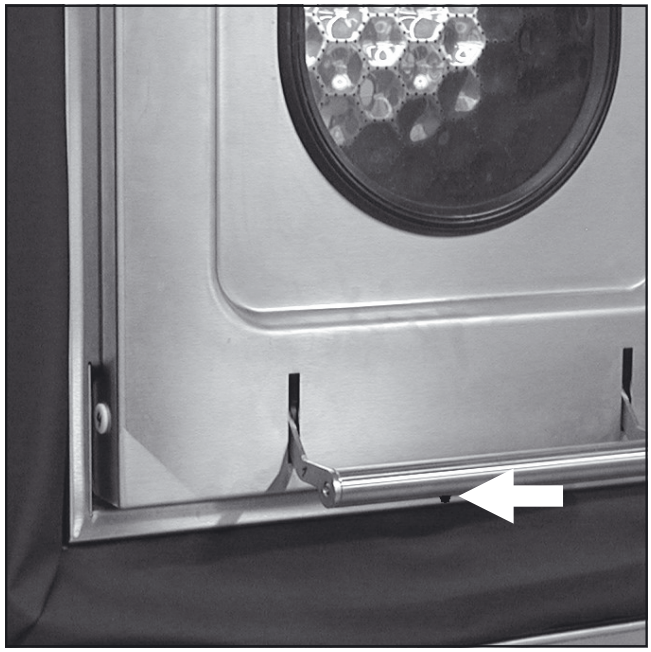
With an extended power cut:

- Switch the machine off.
- Switch off the mains supply at the on-site mains switch.
- Close all stopcocks for water, gas and steam as applicable.

To remove the laundry the drain valve will need to be opened manually and the drum door unlocked manually.



- Push the emergency drain lever downwards (see illustration) and hold until no more water runs out.
- Tighten up the venting screw again and check for leaks (open the water stopcock).



- Insert the blade of a screwdriver into the opening underneath the door handle on the unclean side and turn it anti-clockwise. Pull the door handle to open the door on the unclean side.
  Do not use force to open the door.
- Turn the drum by hand until the drum door is accessible.
- Open the drum door.

⚠ The drum is not stationary and can turn whilst being unloaded. Take care not to squash your fingers.

- Remove the laundry.

Possible reasons for increased levels of foaming

– Detergent type

■ Only use detergents formulated for commercial washer-extractors. Domestic laundry detergents are not suitable.

– Using too much detergent

■ Follow the manufacturer's dosage recommendations on the packaging and take local water hardness levels into account.

– Heavy foaming detergent

■ Use a low foaming detergent or contact your detergent supplier for advice.

– Very soft water

■ In areas with very soft water (hardness level 1) dispense less detergent as specified by the detergent manufacturer.

– Soiling level of the laundry

■ For lightly soiled laundry dispense less detergent in accordance with the detergent manufacturer's instructions.

– Residues e.g. detergent on the laundry

■ Run a pre-wash without detergent and without selecting a temperature. Laundry which has been soaked before washing must be thoroughly rinsed before running a wash programme.

– Small loads

■ Reduce the amount of detergent dispensed according to the size of the load.

– Drum speed too high during the wash

■ Reduce the drum speed and the wash rhythm.

Service interval

If after switching the machine on, the following message appears in the display the machine will need to be serviced by the Miele Service Department.

The display will go out after 5 minutes.

Error messages

⚠ Repairs to electrical or steam operated machines may only be carried out by a suitably qualified person in accordance with national and local safety regulations. Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorised work.

A message will appear in the display if there is a problem either before starting a programme or once it has started.

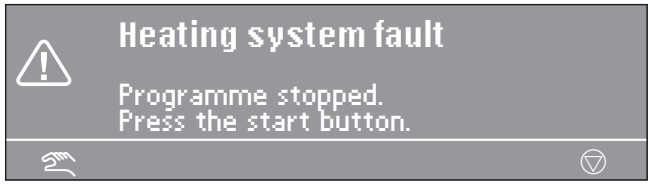
The display remains dark.
There is no power to the machine.

- Check the mains switch and the on-site fuses.

- Once power has been restored press the "START" button.

- Check the stopcock and then press the "START" button.

- If the programme still will not start please call the Service Department.



- To continue the programme with heating press the START button. If a disinfection programme was running the programme will be cancelled if this message appears. Call the Service Department.

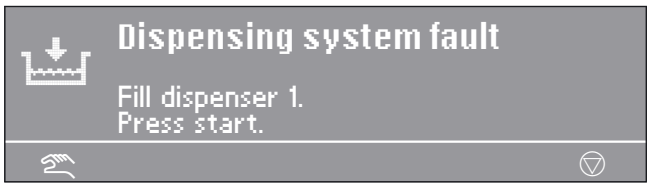
- The winding on the motor has overheated. Let the motor cool down and then press the "START" button.

The imbalance is too great and the imbalance switch has been activated.

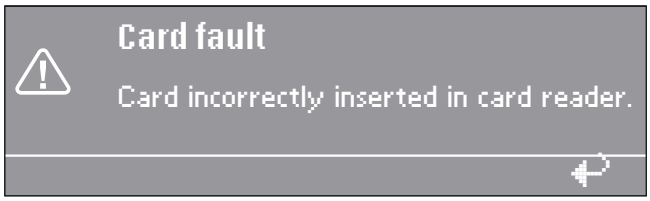
- Press the START button.

- Check the on-site drainage system and then press the START button.

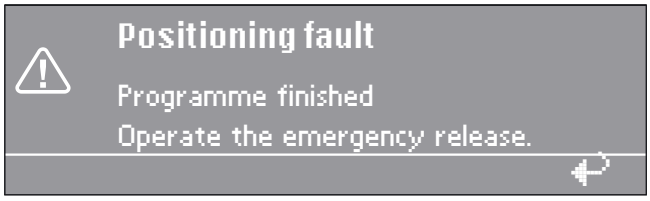
A defective drain valve must be repaired by a Miele Service technician only.



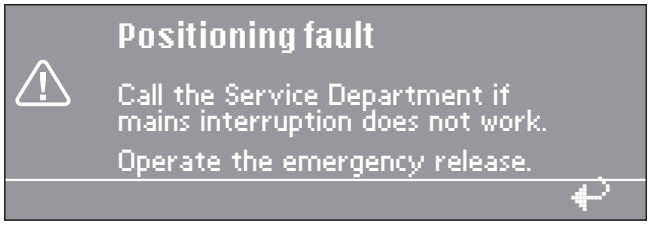
■ Replace or replenish the container. Then press the START button.



■ Insert the card the right way round in the card reader.



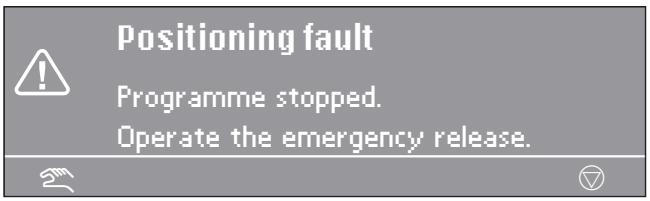
■ Switch the machine off and then back on again. If the drum still does not position itself correctly operate the emergency release.



■ Switch the machine off and then back on again. If the drum still does not position itself correctly operate the emergency release. Call the Service Department.

Press the START button. If the drum still does not position itself correctly select the "Drainage" option and operate the emergency release.

■ Switch the machine off and then back on again. If the drum still does not position itself correctly select the "Drainage" option and operate the emergency release.



■ Switch the machine off and then back on again. Press the START button.

After sales service

In the event of any faults please contact your Dealer or the nearest Service Department.

When contacting the Service Department, please quote the Model, Serial number (SN) and Material number (M.Nr) of your machine.

Model			
SN:	/ 00000000		
Art.-Nr.		Mat.-Nr.	
IBN			

This information can be found on the data plate, located above the electrical connection point, or inside the door on the unclean side.

Please let the Service Department know any error message that has appeared in the display.

Should you require spare parts ensure that you only use **original Miele Spare Parts** (and remember to let the Spare Parts Department know the model number and serial number of your machine).

The machine should be cleaned and checked over immediately after use where possible.

⚠ Do not use a pressure washer or hose to clean the machine.

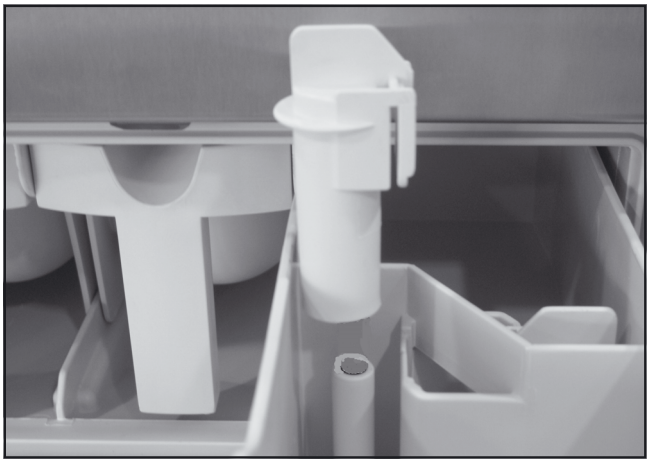
The housing, control panel and any plastic components should be cleaned using a suitable mild cleaning agent, applied with a soft damp cloth. Rub dry with a soft cloth after cleaning.

Parts of the housing made from stainless steel can be cleaned using a suitable proprietary stainless steel cleaning agent.

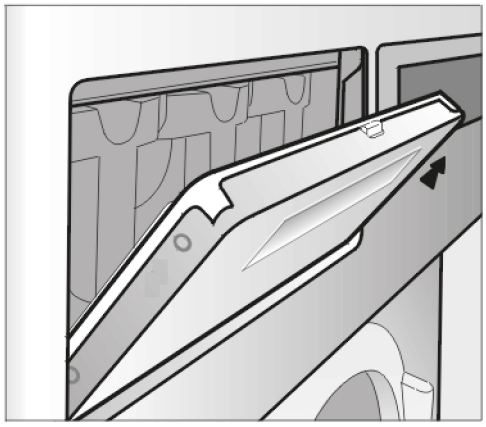
Do not use abrasive cleaning agents as they will damage the surface material.

Clean the detergent dispenser, dispenser compartments and siphons

The detergent dispenser, dispenser compartments and siphons must be cleaned after each use with warm water to thoroughly remove any detergents or other residues. The siphon in the dispenser compartment for fabric conditioner should also be cleaned.



Remove the siphon and clean with hot water. Then put it back in place.



To clean the drip channel and the siphons in the detergent dispenser open out the detergent dispenser cover. If a siphon is blocked a bottle brush can be used.

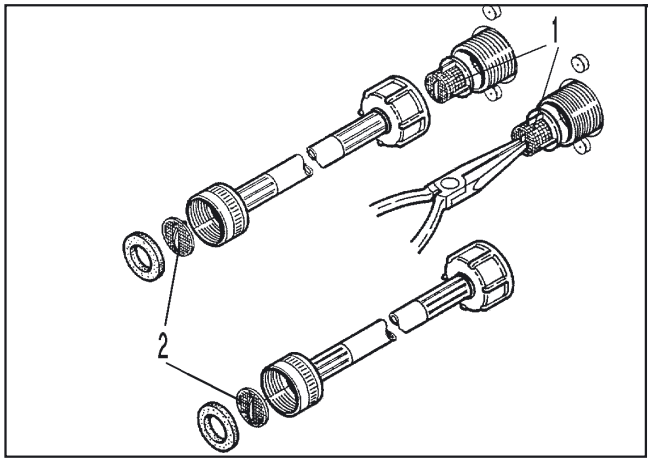
The **grille** over the suds container ventilation at the side of the machine should be checked for soiling from time to time and cleaned if necessary.

The drum **closing mechanism** should be checked regularly to make sure it is working properly. Any fluff that has built up around the drum door must be removed.

Rust

The drum and suds container are manufactured from rust free stainless steel. Water with a very high iron content, or foreign objects such as paper clips, metal buttons etc. which get into the drum with the laundry can cause superficial rusting in the drum and suds container.
To prevent this happening the drum and suds container should be checked and cleaned regularly and if rusting does occur it should be removed using a proprietary cleaning agent for stainless steel.
The door seals should be checked for foreign objects regularly and cleaned as described above.

Leave the door on the unclean side ajar after cleaning to allow the machine to dry.



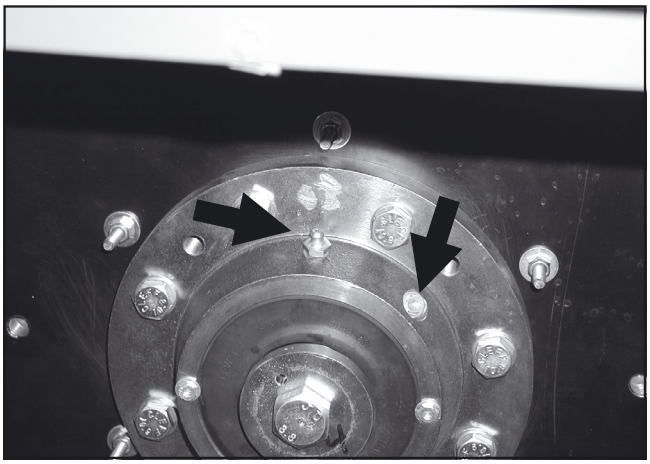
The **filters** in the water inlet valves (1) and in the inlet hoses (2) should be checked from time to time for soiling and cleaned if necessary.

Drum bearings

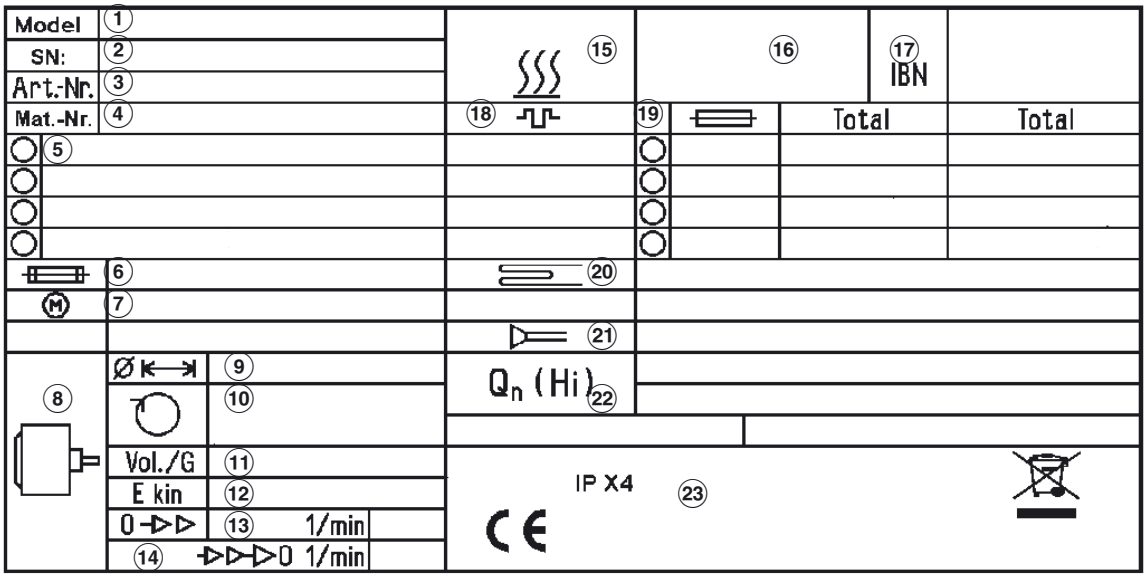
Once the service interval has been reached the following message will appear in the display:

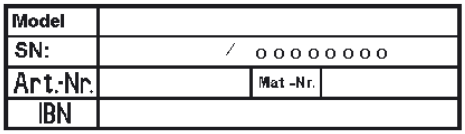
Press the ↩ "Back" button to clear the message from the display. This message will appear in the display each time you switch the machine on until the service work has been carried out by the Miele service technician.

⚠ Disconnect the machine from the mains supply.



Before lubricating the drum bearings the venting screw must be unscrewed. The grease nipples on the left and right hand **drum bearings** must be lubricated after approx. 1000 operating hours with **Arcanol L 100**. While lubricating, rotate the drum three times. Wipe away any old lubricant.





1 Model
2 Serial number
3 Article number
4 Material number
5 Voltage/Frequency
6 Mains fuse rating
7 Drive motor
8 Drum data
9 Drum diameter/Drum depth
10 Spin speed
11 Drum volume/Laundry dry weight
12 Kinetic energy
13 Run-up time
14 Braking time
15 Heating
16 Type of machine/year of manufacture
17 Commissioning date
18 Electric heating
19 Fuse rating (on-site)
20 Steam heating, indirect
21 Steam heating, direct
22 Gas heating
23 Field for test certification/mark

Noise emissions

A-rated sound intensity level
at place of use max. EN ISO 11204

PW 6163 70 dB(A)
PW 6243 71 dB(A)
PW 6323 71 dB(A)

A-rated sound performance level
at place of use max. EN ISO 9614-2

PW 6163 79 dB(A)
PW 6243 81 dB(A)
PW 6323 81 dB(A)

This machine must be installed by an authorised technician only.

Installing and securing the machine

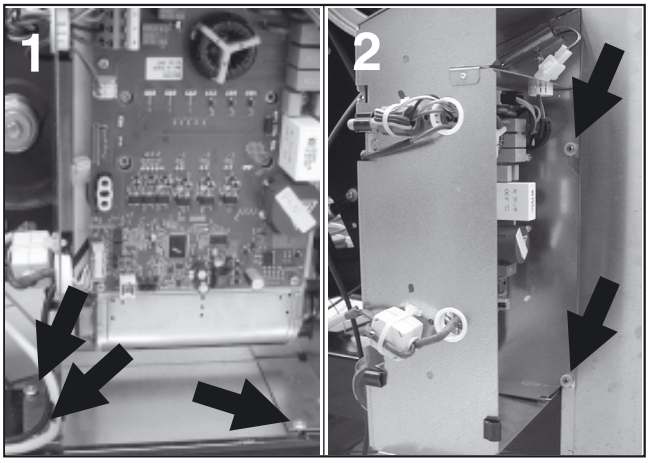
See also the installation diagram supplied.

To avoid the risk of frost damage do not install this machine in a room where there is a risk of frost occuring.

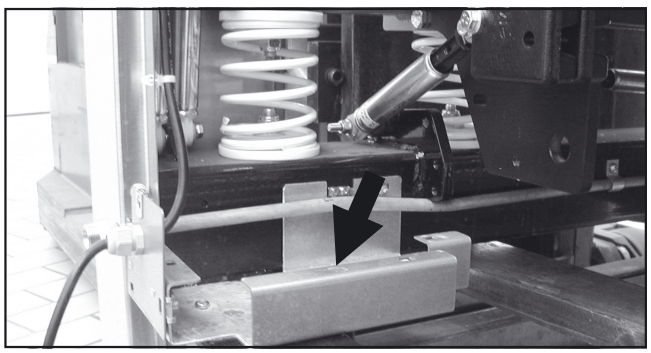
The machine must be level and secure after installation.

The machine can be secured to the floor using the existing drill holes in the base frame of the machine.

- To access them both side panels have to be dismantled.



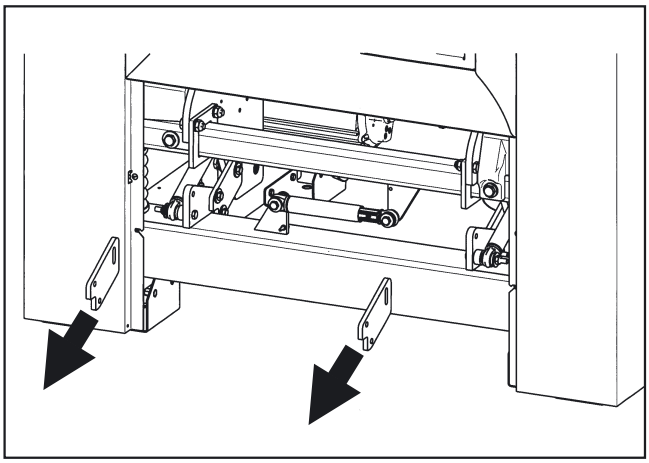
- The frequency converter casing has to be dismanted by undoing 3 screws (Illustration 1) and then hung to the side (Illustration 2).



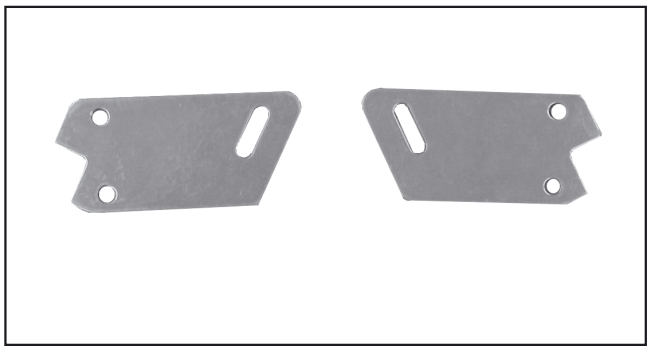
- With steam heated machines the steam connection bracket also has to be dismantled.
- The machine can then be screwed to the floor through the four holes now visible in the machine's base frame.

Do not install the machine on carpeted flooring as the carpet pile can hinder the free flow of air into the ventilation gaps at the bottom of the machine.

Transit fittings



The transit fittings, two on the clean side and two on the unclean side, should not be removed until the machine is set up in its final location and is ready for commissioning.



4 transit fittings

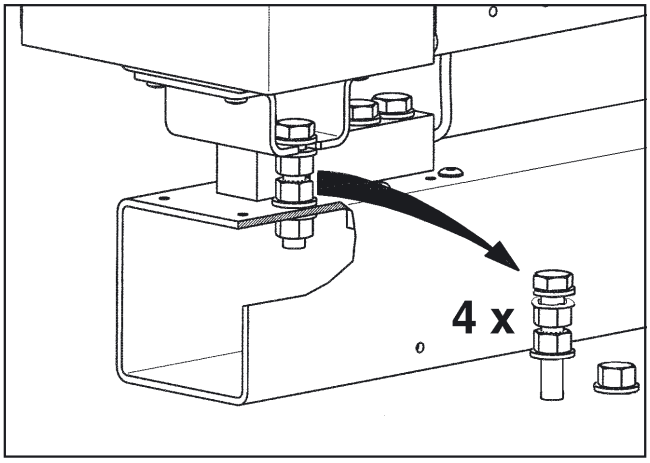
Store the transit fittings in a safe place for future use. They will need to be refitted should the machine every need to be moved to another location.

Use a pallet lifter to move the machine around the room.

Plinth facings are supplied separately with the machine and must be fitted after it has been set up. The earth lead (green-yellow) must then be connected.

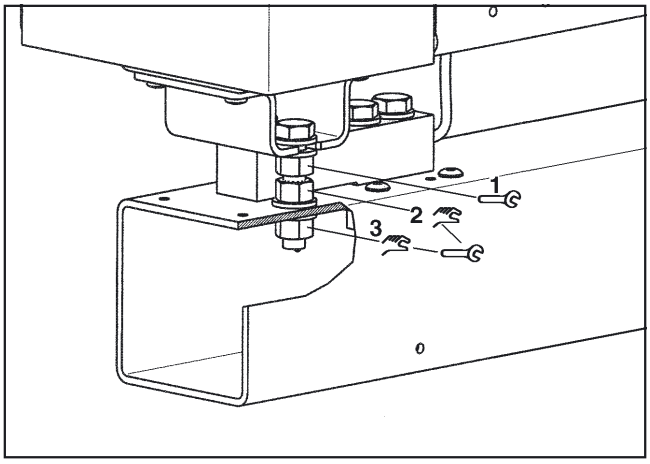
Transit fittings on the weighing system

Removing the fittings

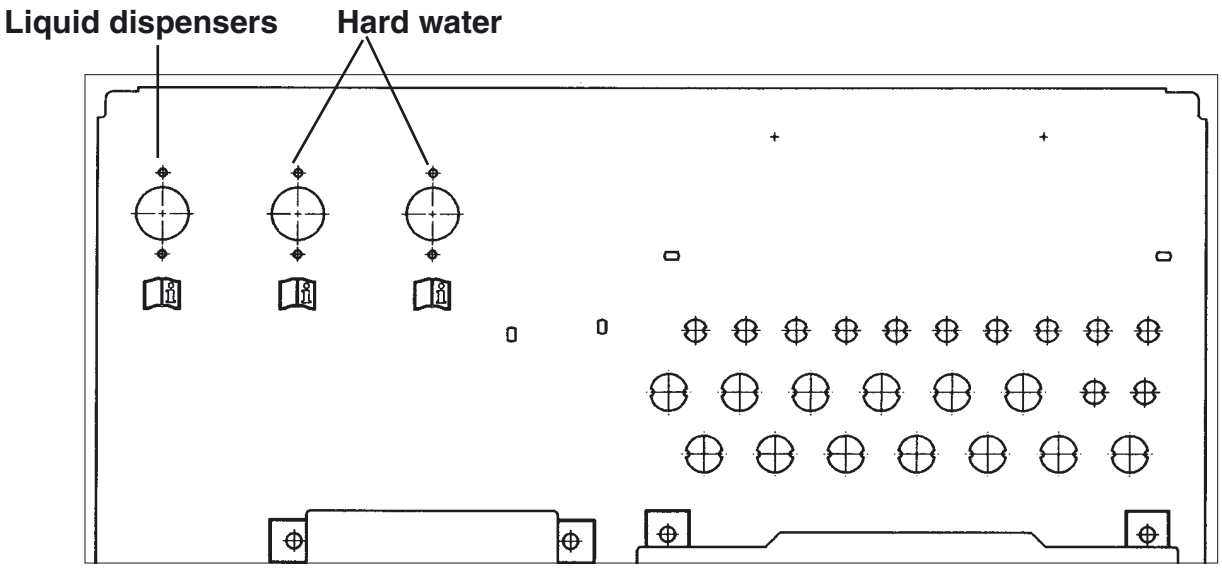


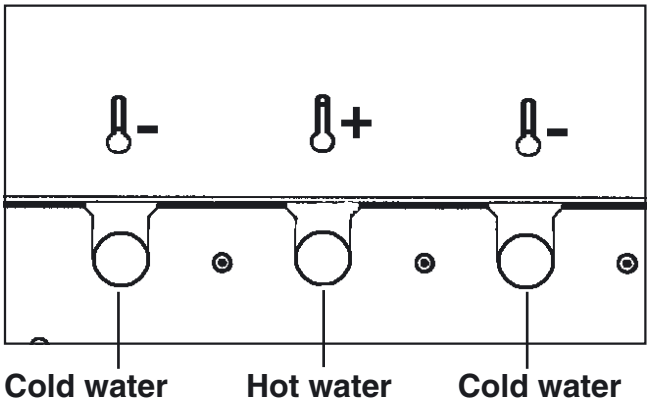
Installing the fittings

If the machine is moved again the transit fittings have to be refitted to the weighing system. This is to protect the weighing mechanism.



- Fit the screws and nuts by hand. Tighten nut 1 with a suitable spanner. Then adjust nuts 2 and 3 loosely by hand and then tighten them up against each other with a suitable spanner.





Plumbing

Connection must be made to the water supply via a stopcock which conforms to local and national regulations. This work must be carried out by an authorised person in accordance with local and national regulations.

Water inlet / drainage

See the enclosed installation diagram for instructions on how to connect the machine to the water inlet and to the drainage system.

To ensure trouble free operation of the machine the flow pressure must be at least 100 kPa (1 bar) and not exceed 1000 kPa (10 bar).

The inlet pressure tested hoses supplied with the machine must be used for connection to the water supply.

If replacing an inlet hose only use a hose tested to at least 7000 kPa (70 bar) pressure, and for a water temperature of at least 90 °C. This also applies to all fittings. Miele original parts fulfil these requirements.

Water taken into the machine must not exceed a temperature of 70°C.

Cold water supply

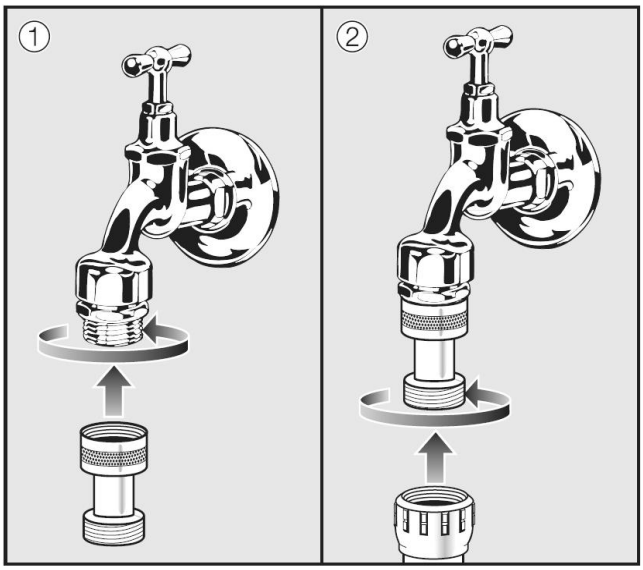
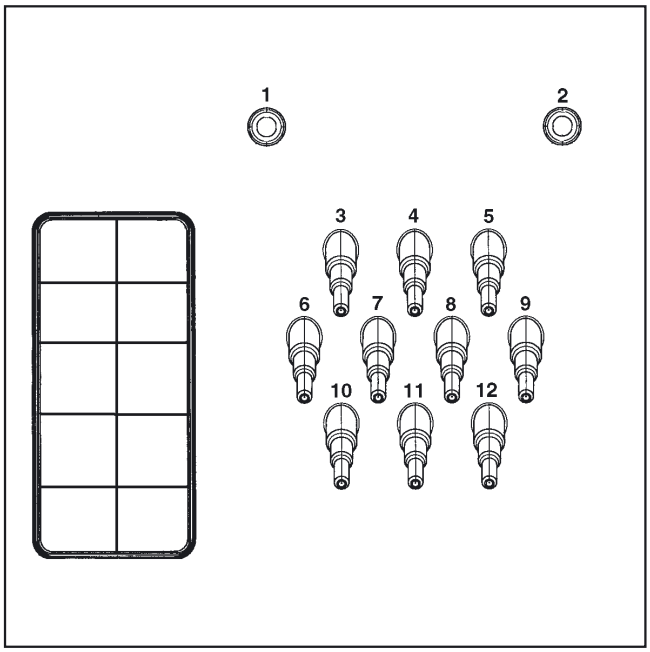


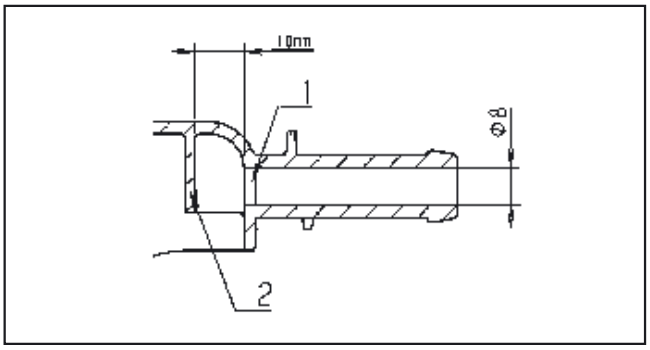
Abb. 1

See the enclosed installation diagram for instructions on how to connect the machine to the water inlet and to the drainage system.

Dispenser system connections



Connections **1** and **2** are for viscous agents only. These connections are sealed and have to be drilled open with an 8 mm drill bit.



Only drill through the first wall. A second one is located 10 mm behind it to deflect the agent.
Any connections that have been drilled open must be resealed if they are subsequently not required.

Connections **3** to **12** are for liquid agents only. These connections are also sealed and have to trimmed to the correct diameter for the hoses being used with a suitable small saw.
Any connections that have been opened must be resealed if they are subsequently not required.

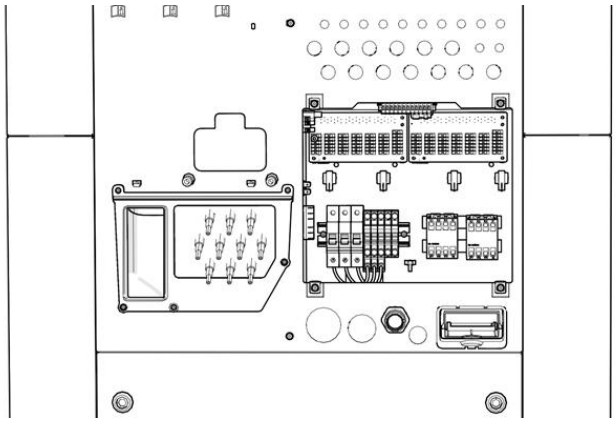
Electrical connection

The electrical connection must only be carried out by a suitably qualified electrician in accordance with local and national safety regulations (BS 7671 in the UK).

When installing a residual current device (RCD), this must be a Type B RCD (suitable to detect high frequency AC and DC earth leakage current).

Connection should be made in accordance with the wiring diagram and the installation diagram to a suitable isolator, with an on-off switch which is easily accessible for servicing. The wiring and installation diagrams are important for the correct electrical functioning of the machine.

The electrical components on the PW 6163, PW 6243 and PW 6323 machines conform to EN 60204.



The connection points are located behind a cover. The mains cable should be fed through the core to the connection clamps.

The machine is supplied ex-works for 3N AC 50-60 Hz. See data plate for details.

It is also available in the following versions: 3 N AC 380-415 V 50-60 Hz
3 AC 220-240 V 50-60 Hz

Provision must be made on site to switch off all poles. Switches with a minimum all-pole contact gap greater than 3 mm are suitable for isolating the machine. These include circuit breakers, fuses and relays (IEC/EN 60947).

If the machine is disconnected from the electricity supply ensure adequate measures are taken to ensure that the machine cannot be reconnected to the electricity supply until all work has been carried out.

Determined R_{sce} = 249.
This equipment complies with IEC 61000-3-12 provided that the short-circuit power Ssc is greater than or equal to 7.6 MW at the interface point between the user's supply and the public system.

It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power S_{sc} greater than or equal to 7.6 MW.

Maximum permissible system impedance
Z_{max} = 0.33 Ω

Maximum permissible system impedance
Z_{sys} = 0.33 Ω

Equipotential bonding

Equipotential bonding must be carried out if required.

The heater rating is set ex-works to
15 kW PW 6163
24 kW PW 6243
30 kW PW 6323.

The heating will only be activated with a minimum suds levels of 70 column of water.

The motor is protected by a winding to prevent it overheating.

Connecting the dispenser pumps

Connection points for 4 time controlled dispenser pumps which can be operated without the multi-function module are located behind the cover next to the electrical connection point. See the wiring diagram supplied.

Steam connection

Steam connection must only be carried out by an authorised installer. See installation diagram and installation instructions supplied with the machine.
A steam valve and condensate trap are available to order from your Miele Dealer or the Miele Spare Parts Department.

After setting up and connecting the machine successfully ensure that all removable outer panels are correctly fitted back into position.

Miele

United Kingdom
Miele Co. Ltd., Fairacres, Marcham Road
Abingdon, Oxon, OX14 1TW
Professional Sales, Tel: 0845 365 6608
E-mail: professional@miele.co.uk
Internet: www.miele.co.uk/professional

Australia
Miele Australia Pty. Ltd.
ACN 005 635 398, ABN 96 005 635 398
1 Gilbert Park Drive, Knoxfield, VIC 3180
Tel: 1300 731 411
Internet: www.miele.com.au/professional
E-mail: info@miele-professional.com.au

China Mainland
Miele Electrical Appliances Co., Ltd.
1-3 Floor, No. 82 Shi Men Yi Road
Jing' an District, 200040 Shanghai, PRC
Tel: +86 21 6157 3500, Fax: +86 21 6157 3511
E-mail: info@miele.cn, Internet: www.miele.cn

Hong Kong, China
Miele (Hong Kong) Ltd.
41/F - 4101, Manhattan Place
23 Wang Tai Road, Kowloon Bay, Hong Kong
Tel: (852) 2610 1025, Fax: (852) 3579 1404
Email: customerservices@miele.com.hk
Website: www.miele.hk

India
Miele India Pvt. Ltd.
Ground Floor, Copia Corporate Suites
Plot No. 9, Jasola, New Delhi - 110025
Tel: 011-46 900 000, Fax: 011-46 900 001
E-mail: customercare@miele.in, Internet: www.miele.in

Ireland
Miele Ireland Ltd.
2024 Bianconi Ave., Citywest Business Campus, Dublin 24
Tel: (01) 461 07 10, Fax: (01) 461 07 97
E-Mail: info@miele.ie, Internet: www.miele.ie

Malaysia
Miele Sdn Bhd
Suite 12-2, Level 12
Menara Sapura Kencana Petroleum
Solaris Dutamas No. 1, Jalan Dutamas 1
50480 Kuala Lumpur, Malaysia
Phone: +603-6209-0288
Fax: +603-6205-3768

New Zealand
Miele New Zealand Limited
IRD 98 463 631
8 College Hill
Freemans Bay, Auckland 1011, NZ
Tel: 0800 464 353
Internet: www.miele.com.au/professional
E-mail: info@miele-professional.com.au

Singapore
Miele Pte. Ltd.
29 Media Circle, #11-04 ALICE@Mediapolis
Singapore 138565
Tel: +65 6735 1191, Fax: +65 6735 1161
E-Mail: info@miele.com.sg
Internet: www.miele.sg

South Africa
Miele (Pty) Ltd
63 Peter Place, Bryanston 2194
P.O. Box 69434, Bryanston 2021
Tel: (011) 875 9000, Fax: (011) 875 9035
E-mail: info@miele.co.za
Internet: www.miele.co.za

United Arab Emirates
Miele Appliances Ltd.
Showroom 1, Eiffel 1 Building
Sheikh Zayed Road, Umm Al Sheif
P.O. Box 114782 - Dubai
Tel. +971 4 3044 999, Fax. +971 4 3418 852
800-MIELE (64353)
E-Mail: info@miele.ae, Website: www.miele.ae

Manufacturer: Miele & Cie. KG, Carl-Miele-Straße 29, 33332 Gütersloh, Germany

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