Operating and Installation Instructions
Washing Machine
PW 811
PW 814
PW 818
Caring for the environment

Disposal of packaging material
The cardboard box and packing materials protect the machine during shipping. They have been designed to be biodegradable and recyclable.

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

Disposal of your old machine
Old electrical machines often still contain valuable materials. However, they also contain harmful substances that were essential for the proper functioning and safe use of the equipment. Handling these materials improperly or disposing of them in your household waste can be harmful to your health and the environment. Therefore, please do not dispose of your old machine with regular household waste.

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 machine load the maximum dry load for the 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.

When drying with a tumble dryer
Selecting the highest possible spin speed for the wash program will save energy when drying in a tumble dryer afterwards.
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IMPORTANT SAFETY INSTRUCTIONS

This washing machine complies with current safety requirements. Inappropriate use can, however, lead to personal injury and damage to property. To avoid the risk of accidents and damage to the machine, please read these instructions carefully before using it for the first time. They contain important information on its safety, installation, use and maintenance.

If other persons are being shown how to operate the machine, they must be given or informed of these important safety instructions.

Keep these operating instructions in a safe place and pass them on to any future user.

Proper use

- The washing machine is designed for industrial use.
- The washing machine is intended for use in a industrial environment.
- If the washing machine is operated in an industrial environment, it must only be operated by instructed/trained personnel or specialists. If the machine is operated in a publically accessible area, the operator must ensure its safe use.
- This washing machine is only intended for items of laundry which have not been impregnated with dangerous or inflammatory substances.
- Only machine wash articles which have a care label stating that they are suitable for machine washing or for wet cleaning.
- This machine 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 washing machine is not intended for outdoor use.
- Do not install the washing machine in a room where there is a risk of frost. Frozen hoses may burst or split. The reliability of the electronic control unit may be impaired at temperatures below freezing point.
- The machine must not be used in a non-stationary location (e.g. on a ship).
- This washing machine can only be used by people with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, if they are supervised while using it or have been shown how to use it in a safe way and understand and recognize the consequences of incorrect operation.
- Children must be kept away from the washing machine unless they are constantly supervised.
- Please supervise children in the vicinity of the washing machine and do not let them play with it.
- Disinfection programs must not be interrupted as this could compromise the result. 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 local and national health and safety regulations) by carrying out suitable validation tests.
- Any uses other than those listed above are prohibited. The manufacturer accepts no liability in such cases.
Preventing problems

► Do not use chemical cleaning agents such as those used for dry cleaning in this machine.

**Danger of fire or explosion.**

► When washing with high temperatures please be aware that the porthole glass can get hot.

**Danger of burning.**

► Close the drum door after each cycle. This is to avoid the risk of children trying to climb into the machine or hide things it and animals getting into the drum.

► Do not damage, remove or bypass the safety components or control elements of this washing machine.

► Machines with a damaged control panel, wires, or cables must not be used until they have been repaired.

► Water used for washing in this machine is not drinking water. It must be discharged into a proper drainage system in accordance with local codes.

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

► When closing the door take care not to trap extremities between the door and the frame. **Caution!** The door locks automatically as soon as the program starts.

► If the detergent compartment drawer is open and the chute is missing, there is a danger of scalding from splashing water. Do not operate the machine if any of its components are missing!

► Always follow the instructions of the chemical manufacturer when using cleaning agents and special application chemicals. Only use such chemicals for the purpose and in the situation specified by the manufacturer in order to avoid the danger of adverse chemical reactions and material damage.
IMPORTANT SAFETY INSTRUCTIONS

Technical safety

Installation and repair work to electrical machines must only be carried out by a qualified person in strict accordance with current local and national safety codes. Repairs and other work by unqualified persons could be dangerous.

Before setting up the washing machine, check it for any externally visible damage. Do not install or use a damaged machine.

The electrical safety of this washing machine can only be guaranteed if it is grounded properly. It is essential that this standard safety requirement is met. If in any doubt, please have building’s wiring system inspected by a qualified electrician. Miele cannot be held liable for the consequences of an inadequate grounding 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 authorized service technician, otherwise any subsequent damage will not be covered by the warranty.

Do not make any alterations to the machine, unless authorized to do so by Miele.

The machine must be isolated from the power supply when cleaning and maintaining the machine and in the event of a fault. The machine is only completely isolated from the power supply when:

- it is switched off at the wall socket and the plug is withdrawn, or
- the fuse is removed from the building wiring or
- the circuit breaker has been tripped.

See "Installation and connection - Electrical connection".

The machine must only be connected to the on-site water supply using a new hose kit. Old hose kits must not be re-used. Check the condition of the hoses regularly so that you can replace them in good time and avoid the risk of any water damage.

In the event of a leak, disconnect the washing machine from the power supply immediately and rectify the cause of the leak before using the washing machine again.

In the case of a fault with the steam heating there can be increased temperatures in the vicinity of the door, the detergent compartment panel and in the drum interior (especially at the edges). Danger of burning. This only applies for machines with steam heating.

Faulty components may only be replaced by Miele original parts. Only when these parts are fitted can Miele guarantee the safety standards of the machine.

If this machine is being used in an industrial environment, please ensure that all relevant health and safety regulations are obeyed and testing is carried out in compliance with local and national regulations. The test book for all necessary test documentation is available from Miele Technical Service.

Please observe the instructions in "Installation and connection" and "Technical data".

The plug (if so equipped) for the washing machine must always be kept accessible so that it can be easily disconnected from the power supply.

If the machine is hard wired, a quick means of disconnect must be installed.
For hard-wired machines, a quick means of disconnect must be provided on site. The isolator must be located in the immediate vicinity of the washing machine and be easily recognizable, accessible without hindrance and easy to operate.
IMPORTANT SAFETY INSTRUCTIONS

Correct use

- The maximum dry laundry weight for the PW 811 is 26 lb (12 kg), for the PW 814 - 35 lb (16 kg), and for the PW 818 it is 44 lb (20 kg). See the "Program chart" for the maximum recommended loads for individual programs.

- Before using the machine for the first time, check that the shipping struts at the rear of the machine have been removed (see "Installation - Removing the shipping struts"). During spinning, a shipping strut which is still in place may result in damage to both the machine and adjacent furniture or appliances.

- Never try to open the washing machine door using force. The door can only be opened when a corresponding message appears in the display.

- Do not push the swinging unit of the machine backwards while the machine is in operation.

- When closing the door there is a danger of crushing and shearing between the door frame and the drum opening and also the hinges. Take care as the door locks automatically when the machine starts!

- Turn off the water supply if the machine is to be left for any length of time (e.g. vacation), especially if there is no floor drain (gully) in the immediate vicinity.

- Take care to ensure that foreign objects (e.g. nails, pins, coins, paper clips) do not find their way into the machine with the laundry. These may damage components of the machine (e.g. suds container, drum), which in turn can result in damage to the laundry.

- If the correct amount of detergent is dispensed, the machine 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 (see "Optional accessories").

- Textiles which have been pre-treated in solvent based cleaning agents must be thoroughly rinsed in clean water before being placed in the machine.

- Do not use solvent based cleaning agents, e.g. those containing benzene, in this machine, as this may result in damage to component parts and create toxic fumes. Such agents also pose a fire and explosion hazard.

- Do not store or use benzene, petrol, paraffin, or other easily flammable liquids near the machine. Do not use the machine lid as a resting place.

Danger of fire or explosion.

- Do not store chemicals (liquid detergent etc.) on the machine lid. They can damage lacquered surfaces and cause discoloration. Accidental chemical spillages must be thoroughly removed using a wet cloth.

- A fan outlet is located on the rear of the tumble dryer. This area must not be blocked. Please ensure that the minimum gap required, as shown on the installation drawing, is maintained.

- Only use dyes specified by the manufacturer as being suitable for use in a domestic washing machine. Always observe the manufacturer’s instructions carefully.
IMPORTANT SAFETY INSTRUCTIONS

► Color run and dye removers contain sulphur compounds which can cause damage such as corrosion. Use these products only if the manufacturer expressly states that they are suitable for use in a washing machine.

► The stainless steel surfaces must not come into contact with liquid cleaning and disinfecting agents which contain chlorine or sodium hypochlorite. These agents can have a corrosive effect on stainless steel. Aggressive vapors containing chlorine can also be corrosive. Do not store containers of these agents near the machine.

► Do not use a power washer or hose to clean the machine.
IMPORTANT SAFETY INSTRUCTIONS

Chlorine and component damage

Frequent use of chlorine products increases the risk of damage to components.

Notes on using chlorine bleach

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 you still need to use chlorine-based bleach for specific soiling, you will need to perform a neutralizing step each time. If this is not done machine components and laundry can suffer irreparable damage.

Antichlorine 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, on the laundered items or a build-up of 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.
Accessories

Accessory parts may only be fitted when expressly approved by Miele. If other parts are used, any claims from the warranty will be void.

Disposal of your old machine

Before disposing of a washing machine, render the door lock inoperable so that children cannot lock themselves in the machine by mistake and endanger their lives.

Miele cannot be held liable for damage caused by failure to comply with these safety instructions and warnings.
Description of the machine (with detergent compartment)

Models with detergent dispenser drawer (WEK)

Display  
see "Control panel" section

Emergency-stop switch  
see "Control panel" section

Door handle

Door

Four height adjustable feet

Detergent dispenser drawer

Electrical connection

Cold water connection

Hot water connection

2 x hard water connection  
(Optional)

Connections for external dispenser pumps

Vapor extraction / free outlet Type AB

Communication module slot  
The XKM RS232 communication module is available as an optional accessory.

Drain valve

Cold water connection for liquid dispensing  
(Optional)

Card reader  
see "Control panel" section

Fan casing

See "Installation and connection"
Control panel

① Display
When the machine is switched on the welcome screen will appear briefly, followed by the first program or the last program started.

② Function buttons
These buttons can be allocated specific functions depending on the status of the machine.
These appear in the display above the buttons and are highlighted when selected.
By reprogramming "Direct button allocation" the first 6 programs in the program list can be selected using buttons 1 - 6.

③ Start button
When this is pressed, the selected program will start. After a program has been started, the display content can be shown again by pressing this button.

④ Optical interface PC
Using PC software, data can be transmitted to and from the controls to a PC.
The optical interface on the control panel provides the connection point.

⑤ Multifunction selector
This is used to select menu options (by turning it) and to confirm your selection (by pressing it).

⑥ Card reader
When a card is inserted, the wash programs on the card can be used. Insert the card in the direction of the arrows.

⑦ I Power On button
For switching the machine on

⑧ 0 Power Off button
For switching the machine off
Operating the washing machine

Emergency-stop switch
The emergency-stop switch puts the machine into a safe state in the event of danger or in order to prevent danger. The emergency-stop switch must be positioned so that it is directly accessible in the event of an emergency. Caution, the machine is not disconnected from the power supply!
Once the hazard has been cleared, turn the switch clockwise to release it.
Press the "START" button again to resume the interrupted program.

Function buttons

Stop/Finish
When a program has started, the right-hand function button acts as a stop button.
When it is pressed the selected program is stopped, pressing it again finishes the stopped program.

Block plus
The corresponding program block (e.g. Pre-wash) is added to the program.

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

Spin cycle

Without spin
Press this button if a final spin is not required after the final rinse.

Settings

Start time
If you press this button before starting the program, information about selecting a start time will appear on the display.

Information
When the program has started current program information can be displayed here.

Manual control

Skip

Back Return to previous display page.

Next / last line

Save
See Access to supervisor level

1-999 all programs

Delete (backwards)

Lower - upper case
Operating the washing machine

A→a Upper - lower case
批次 Water intake
批次 Dispensing
批次 Dispensing switched off
批次 Washing and heating
批次 Drainage with drum rotation
批次 Card
批次 Checked
批次 Program locked
If a program is locked, after 1 minute it can no longer be stopped and canceled with the finish button.
批次 Program unlocked
批次 Data transfer

Supervisor card

For more information on data transmission from the controls to the card and vice versa see Programming instructions.
The card can hold up to max. 30 programs each consisting of 6 blocks.
The back of the card can be written on.
Preparing for use

Commissioning

⚠ The machine should be commissioned by a Miele service technician or an authorized Miele Service dealer only.

- Open the supply valves for water and steam, depending on heating type.
- Switch the machine on at the on-site power switch.
- Switch the machine on with the I Power On button.

Welcome

The welcome screen will appear in the display.

<table>
<thead>
<tr>
<th></th>
<th>Cottons Hygiene</th>
<th>194°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cottons Universal</td>
<td>140°F</td>
</tr>
<tr>
<td>2</td>
<td>Cottons Intensive</td>
<td>140°F</td>
</tr>
</tbody>
</table>

Depending on the program selected, the following will appear in the display:

Then the program list appears.

The last started program is highlighted.

**Tip:** Turn the multifunction selector to select a program and press the "START" button to start it immediately.
Preparing the laundry

- Empty all pockets.

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

Max. load
(dry laundry)

<table>
<thead>
<tr>
<th></th>
<th>PW 811</th>
<th>PW 814</th>
<th>PW 818</th>
</tr>
</thead>
<tbody>
<tr>
<td>max. load (dry laundry)</td>
<td>max. 26 lb (12 kg)</td>
<td>max. 35 lb (16 kg)</td>
<td>max. 44 lb (20 kg)</td>
</tr>
</tbody>
</table>

Maximum load weights are given in the program chart.

Loading the washing machine

- Switch on the washing machine with the I button.
- Pull the door handle to open the drum door.
- Unfold the laundry and load loosely in 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 reduces cleaning efficiency and causes creases.

Closing the door

- Close the door by pressing it until the pre-latch engages.

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

The door will engage but not lock. The door locks automatically as soon as the machine is started.
Washing with detergent compartment

Adding detergent using the detergent dispenser compartment.

- For standard wash programs add powder detergent for the main wash to the \( \text{\textit{}} \) compartment and if desired, add detergent for a pre-wash to the \( \text{\textit{}} \) compartment. Add fabric softener to the front of the \( \text{\textit{}} \) compartment.

- Add any other liquid agents to the back of the \( \text{\textit{}} \) compartment (if this has been programmed).

Do not fill compartment \( \text{\textit{}} \) above the level marker with liquid agents, as they will get through the siphon and into the suds container before needed. Otherwise they will run straight through the siphon in the suds container.
Bleaching agent

Only use bleach on textiles marked with the Δ symbol on the wash care label.

Liquid bleaching agents must only be dispensed through the designated dispenser compartment. The agent will then be dispensed automatically during the 2nd rinse. Liquid bleaching agents should only be used on colored textiles which have a wash care label stating that they are colour fast and suitable for bleaching.

⚠️ Frequent use of chlorine products increases the risk of damage to components.

Dyes, dye removers and descaling agents

Proprietary dyes, dye removers and descaling agents may only be used in this machine if the manufacturer expressly states that they are suitable for use in a washing machine. Instructions on the packaging must be observed.
Continuing program after "Dispensing system fault" message

If the dispensing container is empty the pump and the machine switch off independently. At the same time the machine indicates a lack of liquid detergent.

- Fill the dispenser container.
- Press the "Start" button to continue the program.

Dispensing quantities

Please follow the detergent manufacturer's instructions.

Always follow the instructions of the chemical manufacturer when using cleaning agents and special application chemicals. Only use such chemicals for the purpose and in the situation specified by the manufacturer in order to avoid the danger of adverse chemical reactions and material damage.

Correct dosage also depends on the viscosity of the liquid detergent. It should therefore be allowed to settle to room temperature before being used.

Commissioning the dispenser pumps

Before the liquid dispenser pumps can be used the liquid detergent must be drawn into the system and the set amount to be dispensed.

Dispenser calibration

Dispenser calibration is used to measure the throughput of individual dispenser pumps.

To go directly to Dispenser calibration when the machine is switched off:

- Press and hold multifunction button 2 and switch the machine on using Power On.

Options:

- Dispenser pump 1 to 13
- Select a dispenser pump.

When a dispenser pump is selected, the following will appear in the display:
Washing without detergent compartment

Dispensing calibration ▶ Dispensing pump 1

<table>
<thead>
<tr>
<th>V:</th>
<th>100 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>t:</td>
<td>0 s</td>
</tr>
<tr>
<td>P:</td>
<td>No</td>
</tr>
<tr>
<td>0/1</td>
<td></td>
</tr>
</tbody>
</table>

Tip: The dispensing amount can be set from 0 to 9999 ml in 1 ml steps.

- Press multifunction button 0/1
  The dispensing tube will fill up.
- Press the 0/1 button to stop the process.
- Place the hose of the dispenser pump which is being checked at an upward gradient in a measuring vessel.

⚠️ Irritant detergents.
Irritant for skin and eyes
Avoid contact with skin and eyes, wear protective clothing.

- Return to the main menu by pressing "Back".

Tip: The dispensing amount can be set from 0 to 9999 ml in 1 ml steps.

- Press multifunction button 0/1
  Stop the pump by pressing the 0/1 button, or it will stop automatically after 60 seconds.
- Measure the amount of liquid dispensed into the measuring vessel.

- Enter the measured value into the "V:" field.
  The throughput P is calculated in ml/min. by the controls.

- Press the "Save" button.
  The measured value is allocated to the pump.
- Reconnect the hose.
Detergent dispensing

Avoid dispensing more than the required amount as this can cause excessive foaming.

- Only use low foaming detergents.
- Dispense according to the detergent manufacturer's recommendations.

The amount to dispense will depend on:
- the amount of laundry
- the water hardness level in your area
- the type and level of soiling of the laundry

Detergent dispensing quantity

Please dispense according to water hardness levels and follow the detergent manufacturer’s instructions.

<table>
<thead>
<tr>
<th>Water hardness levels</th>
<th>Hardness range</th>
<th>gpg</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>I (soft)</td>
<td>0 - 8.7</td>
<td>0 - 149</td>
<td></td>
</tr>
<tr>
<td>II (medium)</td>
<td>8.7 - 14.6</td>
<td>149 - 249</td>
<td></td>
</tr>
<tr>
<td>III (hard)</td>
<td>Above 14.6</td>
<td>Above 249</td>
<td></td>
</tr>
</tbody>
</table>

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

Selecting a program

- Select a program (e.g. Program 1 Cottons hygiene) by turning the multifunction selector.

The following (e.g.) will appear in the display:

197 Empty Water Reclamation
1 Cottons Hygiene 194
2 Cottons Universal 140

Further functions, Selecting Pre-wash, Starch stop or Without spin

- Press the multifunction selector to confirm your choice of language.

The following (e.g.) will appear in the display:

1 Cottons Hygiene 11,0/11,0 kg
194°F Main Wash
Rinse 1150 rpm

- Add the Pre-wash program block, if required, by pressing the + Block plus" function button.

When the + Block plus" function button is pressed, the following appears in the display:
Changes before program start

Load capacity

The corresponding load weight can be entered manually before the start of the program.

Temperature

The temperature can be set in from increments of 1 °F / 1 °C increments from cold, 59 - to max. 203 °F / 15 - 95 °C before the program start.

Spin speed

The spin speed can be altered in 25 rpm increments from 300 up to the maximum spin speed. It cannot be set between 0 und 300 rpm.
Select the "Spin speed" field (1100 rpm for final spin) by turning the multifunction selector and press the multifunction selector to confirm your selection.

Change the spin speed by turning the multifunction selector and press the multifunction selector to confirm the value entered.

The maximum spin speed depends on the program selected.

Starting a program

Press the "START" button.

The wash program will start.

Once the program has started, progress is shown on the display.

In the 2nd line of the display, in this case pre-wash, the current suds temperature is shown.

If the pre-wash program block is finished, the main wash program block will appear in the second line of the display with the current suds temperature. The next program block, in this case rinse 1, is shown below.

Tip: The "program finished" display on the right shows the time that the program will finish.

Press the "Information" button.
Further information will appear in the display, for example:

1 Cottons Hygiene
Delay start: 10.07.2010
Start time: 9:47

1 Cottons Hygiene
Time after start: 0 h 23 min
Time left: 0 h 11 min

1 Cottons Hygiene
Time left: 0 h 11 min
Repetition: No

1 Cottons Hygiene
Block 2: Rinse 2
Program step: Wash time 1

1 Cottons Hygiene
Required water level: 60 mm
Actual temperature: 95 °F

1 Cottons Hygiene
Required temperature: 140 °F
Spin speed: 40 U/min

1 Cottons Hygiene
Rhythm: 12 / 3

Press the "Back" button.

The display will automatically revert to the program cycle.
Opening the door after the program has finished

At the end of the program, when the drum has stopped rotating and no water is left in the machine, the following (for example) appears on the display:

1 Cottons Hygiene
Program finished
Door can be opened.

At the same time, a buzzer sounds for 5 seconds at the end of the program.

The door is unlocked automatically.

- Pull the door handle to open the door.

The door catch must be disengaged.

Never use force to open the door!
If the door cannot be opened, follow the instructions in "Opening the door in an emergency".

- Remove the laundry.
Procedure in the event of a program interruption during operation:

If the program is interrupted when there is water remaining in the machine or during a spin, the following (e.g.) will appear in the display:

1 Cottons Hygiene
Program finished. Water in the drum.

or

1 Cottons Hygiene
Program finished. Drum still rotating.

The door is locked.
The drum door is locked. Do not attempt to open it using force.

- Press the "Water drainage" button or select the Separate spin program and press the "START" button.
- Open the door at the end of the program.

If no further wash programs are planned:
- Turn the machine off using the "0 Power Off" button.
- Switch off at the on-site power switch.
- Close the on-site supply valves for water and steam.
Washing by card operation

Card operation

Cards with at least one program are intended a particular type of machine. Blank cards can be used in any machine.

- Turn the machine off with the "Power On" button.

The welcome screen will appear in the display.

- Insert the card.

The programs on the card will appear in the display.

<table>
<thead>
<tr>
<th>Card operation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>17 Masks</td>
<td>113°F</td>
</tr>
<tr>
<td>18 Minimum iron</td>
<td>140°F</td>
</tr>
</tbody>
</table>

- Select a program by turning the multifunction selector. Press the multifunction selector to highlight the program.

- Press the multifunction selector to select the highlighted program.

- Press the "START" button.

The program will run.

**Tip:** When the "START" button has been pressed the card can be removed from the card reader. The program will be deleted at the end of the program.

Do not insert any objects other than the card into the card slot.

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

- Insert the card correctly into the card reader.
If the card is not suitable for this model of machine, the following message will appear in the display:

**Card contents**
Card programs are only applicable for machine type ??.

- Insert a suitable card for the model of machine.

**Laundry load operation**
A card with only one special program on it is assigned to a laundry load that requires a special process.

- This function is activated in the supervisor level via the "Laundry loads" menu option.

The machine controls will then only accept cards for laundry loads on which there is **only one** program.

- The programs in the controls can no longer be accessed.
Additional functions

Language selection
The language can be changed temporarily via the flag symbol before starting the program.

The language selected is reset 5 minutes after the end of the program when the door is opened.

1 Cottons Hygiene 194°F
2 Cottons Universal 140°F
3 Cottons Intensive 140°F

Press the function button.
The following will appear in the display:

Press the multifunction selector to select "Language".

Turn the multifunction selector to select the language required and confirm by pressing the multifunction selector.

Start time

Setting a start time
Select the program.

When a program has been selected, the display shows (e.g.):

Press the "Start time" button.
The following (e.g.) will appear in the display:

The current time and date always appear. The entry field for hours is highlighted.
Additional functions

- Press the multifunction selector to highlight the hour.
- Turn the multifunction selector to set the hour and confirm by pressing the multifunction selector.
- Press the multifunction selector to highlight the "Minutes" field.
- Set the minutes by turning the multi-function selector and confirm the values set by pressing the multifunction selector.
- Press the multifunction selector to highlight the "Start date" field.
- Turn the multifunction selector to set the day and confirm by pressing the multifunction selector.
- Set the month and year in the same way.
- Press the "START" button to start the program at the time set.

The display shows the current time and date and the start time:

<table>
<thead>
<tr>
<th>1</th>
<th>Cottons Hygiene</th>
<th>18,0/18,0 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>194°F</td>
<td>Main Wash</td>
<td></td>
</tr>
<tr>
<td>16:15 - 2.4.2015</td>
<td>Start: 6:00 - 3.4.2015</td>
<td></td>
</tr>
</tbody>
</table>

**Tip:** The start time will be deleted if the drum door is opened. If the drum door is opened again, the "START" button must be pressed again.

**Canceling the start time function**

- Press the ☑ "Start time" or ☑ "Back" button.

The changes will be discarded.

**With Pre-wash**

In programs with the option of a pre-wash, a pre-wash can be added for heavily soiled laundry before the program has started.

- Press the +UP "Blockplus" button.

The following will appear in the display:

<table>
<thead>
<tr>
<th>1</th>
<th>Cottons Hygiene</th>
<th>18,0/18,0 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>104°F</td>
<td>Pre-wash</td>
<td></td>
</tr>
<tr>
<td>194°F</td>
<td>Main Wash</td>
<td></td>
</tr>
</tbody>
</table>

The "+UP" field is highlighted in the display.

**Tip:** The function can be deselected by pressing the +UP "Blockplus" button again.

**Starch**

Starching can be selected before the program is started by pressing the STARCH "Starch stop" button.

The wash time is automatically increased by 4 minutes.
Additional functions

- Press the "Starch stop" button.
  The field is highlighted in the display.

**Tip:** The function can be de-selected by pressing the button again.

When program stage "Starch stop" is reached, "Starch stop" will flash in the display.

- Press the "START" button to continue the program.
- Prepare the starch according to manufacturer's instructions and add to the front of compartment.

**Tip:** If the water and starch solution is still too thick, add more water.
- Press the "START" button to continue the program.

**Adding directly into the drum**

The program has reached the "Starch stop" stage.

- Open the drum door and add the starch prepared according to the manufacturer's instructions.
- Close the door.

The following message appears in the display:

- Press the "START" button to continue the program.


**Without spin**

Without spin\(\circ\) can be selected before the program start.

- Press the "Without spin" button.

The \(\circ\) field is highlighted in the display.

**Tip:** The function can be deselected by pressing the button again.

When program stage "Without spin" is reached, "Program stop Without spin" will flash in the display.

- The program can be ended without a spin and with water still remaining in the machine by pressing the \(\circ\) "Stop/Finish" button.

**Tip:** The program can be continued with a spin by pressing the "START" button.

**Program stop**

Stops the program.

- Press the \(\circ\) "Stop/Finish" button to stop the program.

The program is stopped.

**Tip:** Press the "START" button to continue the program.

**Canceling a program**

This function allows you to cancel the program.

- Press the \(\circ\) "Stop/Finish" button twice in rapid succession.

The program will be canceled.

If the program has been canceled while there is still water in the machine or during spinning, the following will appear on the display:

or
Additional functions

1 Cottons Hygiene
Program finished. Drum still rotating.

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

Cancelling a locked program

It is not possible to stop or cancel a locked program.

The display shows this locked state if an attempt is made to cancel the program by pressing the "Stop/Finish" button.

Tip: The program can be unlocked by pressing the "Unlock" function button and entering the password.

Press the "Unlock" function button and enter the password.

When the password is entered, the following appears in the display:

Unlock program?

Press the "Save" button.

The normal display content appears and the program can be cancelled.

Skip program

The current program can be shortened (skipped) or program blocks can be repeated.

Press the "Stop /End" button.

The program is stopped.
Press the → → "Skip" button
The current area, block or stage appears in the display.

**Tip:** See "Program structure" for more information.

- Turn the multifunction selector to select Area and confirm by pressing the multifunction selector.
- Select and confirm areas: 1 Pre-wash, 2 Main wash or 3 Rinse.
- Turn the multifunction selector to select Block and confirm by pressing the multifunction selector.
- Select and confirm blocks: 1-10 Pre-wash, 1-10 Main washes or 1-10 Rinse
- Turn the multi-function selector to select stage and confirm by pressing the multi-function selector.
- Select and confirm the program stage required.
- Then press the "Save" button and then "START" to skip the stage.

**Tip:** If the "Back" button is pressed you return to Program stop and stage will not be skipped.
Optional modules

Liquid dispensing (optional for machines with detergent compartment)

A Dispenser pump
B Siphon tube
1 Hose connection socket (suction side)
2 Hose connection socket (pressure side)
3 Outlet (in case of hose leakage)
4 Suction inlet opening
5 Display indicator level checker. When the dispenser is empty the pump and the machine switch themselves off.

Continuing program after "Dispensing system fault" message

If the dispensing container is empty the pump and the machine switch off independently. At the same time the machine indicates a lack of liquid detergent.

- Fill the dispenser container.
- Press the "Start" button to continue the program.
### Deselecting dispensing

Liquid dispensing can be switched off before the program starts.

<table>
<thead>
<tr>
<th></th>
<th>Cottons Hygiene</th>
<th>194°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cottons Universal</td>
<td>140°F</td>
</tr>
<tr>
<td>2</td>
<td>Cottons Intensive</td>
<td>140°F</td>
</tr>
</tbody>
</table>

- Turn liquid dispensing off manually using the "Dispensing Off" function button.
- After the program has started no detergent will be dispensed via the dispenser pumps and the following message, e.g. will be displayed:

<table>
<thead>
<tr>
<th></th>
<th>Cottons Hygiene</th>
<th>11,0/11,0 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td>104°F</td>
</tr>
<tr>
<td></td>
<td>Pre-wash</td>
<td></td>
</tr>
<tr>
<td></td>
<td>194°F</td>
<td>Main Wash</td>
</tr>
</tbody>
</table>

### Dispensing quantities

Please follow the detergent manufacturer's instructions.

**⚠️ Risk of injury!**

Violent chemical reactions and material damage.
Always follow the instructions of the chemical manufacturer when using cleaning agents and special application chemicals. Only use such chemicals for the purpose and in the situation specified by the manufacturer in order to avoid the danger of adverse chemical reactions and material damage.

**Tip:** Correct dosage also depends on the viscosity of the liquid detergent. It should therefore be allowed to settle to room temperature before being used.

### Connecting the dispenser pumps

Connection terminals for 4 time-controlled dispenser pumps, which can be operated without a multifunction module, are located behind the cover adjacent to the electrical connection. See the attached wiring diagram.

Once the machine has been successfully installed and connected, replace all the external parts that were removed.

### Commissioning the dispenser pumps

Before the liquid dispenser pumps can be used the liquid detergent must be drawn into the system and the amount to be dispensed set.
Optional modules

Dispenser calibration
Dispenser calibration is used to measure the throughput of individual dispenser pumps.

To go directly to Dispenser calibration when the machine is switched off:

Press and hold multifunction button 2 and turn the machine on with the Power On button.

Options:
- Dispenser pump 1 to 13
- Select a dispenser pump.

When a dispenser pump is selected, the following will appear in the display:

Tip: The dispensing amount can be set from 0 to 9999 ml in 1 ml steps.
- Press multifunction button 0/1
The dispensing tube will fill up.
- Press the 0/1 button to stop the process.
- Place the hose of the dispenser pump which is being checked at an upward gradient in a measuring vessel.

⚠ Irritant detergents.
Irritant for skin and eyes
Avoid contact with skin and eyes, wear protective clothing.

- Return to the main menu by pressing "Back".

Select a dispenser pump.
Dispensing calibration ▶ Dispensing pump 1

| V: 100 ml | t: 0 s | P: No |

Press multifunction button 0/1
Stop the pump by pressing the 0/1 button, or it will stop automatically after 60 seconds.

Measure the amount of liquid dispensed into the measuring vessel.

Dispensing calibration ▶ Dispensing pump 1

| V: 100 ml | t: 30 s | P: 200 ml/min |

Enter the measured value into the "V:" field.
The throughput P is calculated in ml/min. by the controls.

Press the "Save" button.
The measured value is allocated to the pump.
Reconnect the hose.

**Cleaning and maintenance of the dispensing system**

Rinse the dispensing system through with hot water every 2 weeks, or before shutting the dispenser pumps down for any length of time, to avoid the system getting clogged up and corroded.

To do this, rinse out the siphons with water.
Put the siphons in a container with warm water (104 - 122 °F / 40 - 50 °C).
Activate the dispenser calibration switch in each pump, until the dispensing system is rinsed through.
Check the connections, hoses, dispensing sockets and seals for leaks.
Optional modules

**Peak-load cut-out**
When a peak-load signal is received, the heating is deactivated and the program stopped.

- Activate the peak-load function.

The following message appears in the display:

```
1 Cottons Hygiene
Program stop - Peak load function
Program will continue.
```

The program is resumed automatically when the peak-load system reactivates the heating.

**Communication module**
The machine can be connected to a PC (personal computer) using the communication module.

The slot for the module is located on the back of the machine.

An Editor program for this is available from Miele.

**Operating data**
With the Operating data module Operating data can be read or deleted via the "Operating data" button either before program start or after the end of the program.

```
1 Cottons Hygiene 194°F
2 Cottons Universal 140°F
3 Cottons Intensive 140°F
```

- Press the "Operating data" button.

When the button is pressed the following appears in the display:

```
Operating data module
Total data
Program data
```

You have the following options:

- Overall data
  Data from all programs is collected and added together in Overall data.

- Program data
  Program data is data which is recorded during the course of a program.
Optional modules

- Deleting data
- Module (delete Overall and Program data)
- Overall data (delete Overall data only)
- Program data (delete Program data only)

**Tip:** The function can be deselected by pressing the "Operating data" button again.

If the data storage capacity in the Operating data module is full, a message appears when the "START" button is pressed to inform you that Operating data will be overwritten.

**Tip:** If the "Back" button is pressed or if the "START" button is not pressed within 30 seconds, the program will not start and the display appears as before program start.
Optional modules

Overall data

Select the Overall data menu option.

After selecting Overall data, the following, e.g. appears in the display:

- Total switch-on time: 200,987 h
- Operating hours: 123,456 h
- Heating activation time: 73,456 h
- Drive motor running time: 93,456 h
- Program starts: 23,456
- Program stops: 567
- Program cancellations: 67
- Water quantity 1.234.567 gal.
- Laundry load size: 1,234,567 lb
- Dispensed detergent: 2.345 gal.
- Energy: 12.345.678 kWh

Program data

Select the Program data menu option.

After selecting Program data, the following appears in the display:

Select the relevant program from the program list and confirm your selection by pressing the multifunction selector.
Then a list of all program starts of "Program 1 Cottons hygiene" will appear with date and start time.

<table>
<thead>
<tr>
<th>Program data</th>
<th>1 Cottons Hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 21.05.2015</td>
<td>Start time: 11:30</td>
</tr>
<tr>
<td>Date: 21.05.2015</td>
<td>Start time: 12:30</td>
</tr>
</tbody>
</table>

Select the program start you want from the list of all "Program 1 Cottons Hygiene" program starts and confirm your selection by pressing the multifunction selector.

<table>
<thead>
<tr>
<th>Program data</th>
<th>1 Cottons Hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 21.05.2015</td>
<td></td>
</tr>
<tr>
<td>Name: Müller</td>
<td></td>
</tr>
</tbody>
</table>

Further options:
- Location: Lehrte
- Machine no.: 12345678
- Model: PW 811
- Laundry load size: 25 lb / 11 kg
- + button: pressed
- Starch stop button: pressed
- Without spin button: not pressed
- Program start: 11:30
- Program end: 12:05
- Total duration: 0 h 35 min
- Electric energy: 12.5 kWh
- Gas energy: 0 kWh
- Steam energy: 0 kWh
- Total water quantity: 36 gallons / 140 l
- Max. water temperature: 203 °F / 95 °C
- Maximum water drainage temperature: 39 °F / 45 °C
- Program change: 2 (after selecting and pressing the multifunction selector only the last 3 stops and 3 starts are displayed.)
- Program faults: none (only the last 3 faults are saved.)
- Area 1: Pre-wash (after selecting and pressing the multifunction selector the area or the block can each be changed.)
- Block 1: Pre-wash
- Duration: 6 min
Optional modules

- Water quantity: 5 gallons / 20 l
- Dispensing phase 1: Amount ml (after selecting and pressing the multifunction selector the 6 dispensations are displayed.)
- Max. temperature: 54 °F / 12 °C
- Holding time: 6 mins.
- Dispensing phase 2: no

Deleting data

<table>
<thead>
<tr>
<th>Operating data module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program data</td>
</tr>
<tr>
<td>Delete data</td>
</tr>
</tbody>
</table>

■ Select the "Delete data menu option.

After selecting "Delete data", the following appears in the display:

<table>
<thead>
<tr>
<th>Operating data module</th>
<th>Delete data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module: 21.05.2015</td>
<td></td>
</tr>
<tr>
<td>Total data: 12.07.2015</td>
<td></td>
</tr>
</tbody>
</table>

Tip: With the Module menu option Overall data and Program data are deleted from the Operating data.
With the Overall data menu option only Overall data is deleted from the Operating data.
With the Program data menu option only Program data is deleted from the Operating data.

■ Select a menu option by turning the multifunction selector and confirm your selection by pressing the multifunction selector.

A prompt to enter a password then appears.

Password:
ABCDEFGHJKLMNOPQRSTUVWXYZ
0123456789

■ Enter the password or insert the card for Supervisor level.

The menu option is accessed and an additional security question appears.

Delete operating data?

■ Press the "Save" button.

The data is deleted.
**Weighing system / weighing base**

If the machine is equipped with a weighing base, the laundry load weight is displayed in 0.5 lb / 0.2 kg increments. The max. loading weight for the program is displayed beside it.

**Resetting the load display to zero**

Do not put anything into the machine and do not lean on it. This can influence the result of the measurement.

If the load display does not show "0.0" with an empty drum, this can be rectified by pressing the "0 -reset" button.

If after resetting to 0 (taring) you discover an overlooked item in the drum, the following will appear in the display:

- **Reset the display to 0 using the "0 -reset" button.**

**Tip:** If the machine is overloaded, for example when laundry is wet, it will operate in accordance with the rated load after the program starts. This value is also saved in the operating data module.

At the end of the program when the drum has stopped rotating, the residual moisture in the laundry is shown in the display.
Power failure during the washing process

- Switch off the machine.
- Switch the machine off at the on-site power switch.
- Close the on-site non-return valves for water or steam.

To remove the laundry, first open the drain valve manually and then manually unlock the door.

- Insert a wrench (max. size 10/11 mm) into the slot in the back of the machine.
- Open the drain valve by pushing on the lever behind the back panel of the machine.
- Maintain the pressure on the lever until the machine has drained completely.

The wash water will drain.

The emergency drain closes automatically when you remove the wrench.

Opening the door in an emergency in case of a power failure

The door cannot be opened.
Caution! Rotating drum and risk of scalding. Before inserting the Torx wrench, make sure that the machine is disconnected, the drum has stopped and there is no water in the machine.

---

Turn the release element with a T 40 Torx wrench two whole revolutions **counter-clockwise (left)**.

**Tip:** Pushing on the door at the same time makes it easier to turn the emergency unlock mechanism.

The release element is located opposite the door catch at the same height as the handle (see illustration).

The release element must not be turned to the right. This damages the door lock.

The resistance to turning will decrease noticeably. When the release element moves freely, the door is unlocked.
Problem solving guide

Tip: It is not necessary to turn the release element back. The door can now be opened.

Service interval and BGR display

If the following message appears after "Power On" in the machine display, either a service or the annual BGR check must be carried out.

Maintenance interval

Call Technical Service.

BGR CHECK

Call Technical Service.

The display will go out after 5 seconds

Fault messages

⚠️ Repairs to electrical or steam heated machines should only be performed by a suitably qualified service technician to ensure safety. Unauthorized repairs could be dangerous.

Malfunctions occurring before or after the start of a program will be shown in the display

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

- Check the plug connectors, power switch and (on-site) fuses.

Power failure

Program stop.
Press Start.

- When the power has been restored press "START".

Tip: This error message can mean: The motor thermo-switch of the drive motor has been triggered.

- Allow the motor to cool down.
Problem solving guide

- **Water intake fault**
  Call Technical Service if restart w/o success.

  - Check the faucet and press the "START" button.

- **Door lock fault**
  Call Technical Service if restart w/o success.

  - If the door lock failure occurs again after a restart, proceed as described in "Opening the door in an emergency". If this still cannot be done, call Miele Technical Service.

- **Heating system fault**
  Program stop. Press Start. Program runs with cold water.

  - Press the "START" button to continue the program without heating.
  
  **Tip:** Disinfection programs will be cancelled if this fault message appears.
  
  - Contact Miele Technical Service.

- **Drive motor fault**
  Program stop. Press Start. Motor temperature too high.

  - Allow the motor to cool down.

  Too large an imbalance. The imbalance switch has been triggered.

- **Imbalance fault**
  Call Technical Service if restart w/o success.

  - Turn the machine on and press "START".

- **Drain valve fault**
  Call Technical Service if restart w/o success.

  - Check on-site drain system and press "START".

  A defective drain valve must only be repaired by Miele Technical Service.
Dispensing system fault
Fill dispensing container ??.
Press Start.

- Change the dispenser container.

Card fault
Reinsert card correctly in card reader.

- Insert the card into the card reader correctly.

Technical service
In the event of any faults please call Miele Technical Service.

When contacting your dealer or the Technical Service Department, please quote the model and serial number of your machine, both of which are shown on the data plate:

<table>
<thead>
<tr>
<th>Model</th>
<th>SN:</th>
<th>Art.-Nr.</th>
<th>IBN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 0 0 0 0 0 0 0</td>
<td>Mat.-Nr.</td>
<td></td>
</tr>
</tbody>
</table>

The data plate is visible above the porthole glass when the drum door is open, or on the back of the machine at the top.

Please also pass on the error message appearing in the machine display to the Technical Service Department.

Use only genuine Miele original spare parts. The Service department will also require model, serial number (SN) and material number (M-No.) when ordering.
Problem solving guide

With the help of the following guide, minor faults in the performance of the machine, some of which may result from incorrect operation, can be resolved without contacting Miele Technical Service. This will save time and money.

The following guide may help you to find the reason for a fault, and how to correct it. You should, however, note the following:

⚠️ Repair work to electrical appliances must only be carried out by a suitably qualified person in strict accordance with current local and national safety codes. Repairs and other work by unqualified persons could be dangerous.

The program does not start

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause and solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The display remains dark.</td>
<td>There is no power to the machine.</td>
</tr>
<tr>
<td></td>
<td>■ Check that the washing machine is switched on.</td>
</tr>
<tr>
<td></td>
<td>■ Check that washing machine is connected to the power supply.</td>
</tr>
<tr>
<td></td>
<td>■ Check whether the fuse or circuit breaker has tripped.</td>
</tr>
<tr>
<td>A fault message appears in the display</td>
<td>A program cannot be started while there is a fault message in the display.</td>
</tr>
<tr>
<td></td>
<td>■ Note what is shown in the display.</td>
</tr>
<tr>
<td></td>
<td>■ Press the multi-function selector to confirm the message.</td>
</tr>
<tr>
<td></td>
<td>The fault message is deleted.</td>
</tr>
<tr>
<td>The display is dark and the Start button indicator light is flashing slowly.</td>
<td>The display has switched off automatically to save energy (Standby mode).</td>
</tr>
<tr>
<td></td>
<td>■ Press any button. Standby comes to an end.</td>
</tr>
</tbody>
</table>
# Frequently Asked Questions

## An unsatisfactory wash result

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause and solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Liquid detergent does not give the required result.</strong></td>
<td>Liquid detergents usually contain no bleaching agents. They do not remove fruit, coffee and tea stains.  - Use a general purpose powder detergent containing a bleaching agent.  - Pour stain removers into compartment of the dispenser drawer and liquid detergent into a dispenser ball.  - Never put stain removers and liquid detergent together in the detergent dispensing drawer.</td>
</tr>
<tr>
<td><strong>Grey, greasy particles cling to washed laundry.</strong></td>
<td>Insufficient amounts of detergent were used to break down the particles of grease in heavily soiled laundry.  - Use more detergent for heavily soiled laundry or use liquid detergent.  - Before washing the next load run a Cottons 203 °F / 60 °C program with powder detergent but without a load.</td>
</tr>
<tr>
<td><strong>White residues which look like powder detergent are seen on dark textiles after washing.</strong></td>
<td>The detergent contained compounds (zeolites) to aid water softening which are not soluble in water. These have ended up on the laundry.  - 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.</td>
</tr>
<tr>
<td><strong>Textiles with particularly greasy soiling are not completely clean.</strong></td>
<td>Select a program with a Pre-wash. Use liquid detergent for the pre-wash and a powder detergent for the main wash.  - Use a commercially available powder detergent for the main wash.  - The use of heavy-duty detergent is recommended in the main wash for very heavily soiled work clothing. Please follow the manufacturer’s instructions.</td>
</tr>
</tbody>
</table>
## General problems with the washing machine

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause and solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The machine vibrates during the spin cycle.</td>
<td>The machine feet are not level.</td>
</tr>
<tr>
<td></td>
<td>- Level the machine and adjust the feet.</td>
</tr>
<tr>
<td>Large amounts of detergent residue remain in the detergent dispenser drawer.</td>
<td>The water pressure is too low.</td>
</tr>
<tr>
<td></td>
<td>- Clean the filters in the water inlet.</td>
</tr>
<tr>
<td></td>
<td>Powder detergent used in conjunction with water softeners tends to become sticky.</td>
</tr>
<tr>
<td></td>
<td>- Clean the detergent dispenser drawer and in future add washing powder into the dispenser drawer first, then add the water softener.</td>
</tr>
<tr>
<td>Fabric softener is not completely dispensed or too much water remains in the compartment.</td>
<td>The siphon tube is not correctly positioned or is clogged.</td>
</tr>
<tr>
<td></td>
<td>- Clean the siphon (see &quot;Cleaning and care - Cleaning the detergent dispenser drawer&quot;).</td>
</tr>
<tr>
<td>The display is in a different language.</td>
<td>A different language has been selected in &quot;Settings&quot;</td>
</tr>
<tr>
<td></td>
<td>- Set the language you want. The flag symbol will guide you.</td>
</tr>
<tr>
<td>The door will not open.</td>
<td>There is no power to the machine.</td>
</tr>
<tr>
<td></td>
<td>- Check that the machine is switched on.</td>
</tr>
<tr>
<td></td>
<td>- Check that the power supply to the machine is switched on.</td>
</tr>
<tr>
<td></td>
<td>- Check whether the fuse or circuit breaker has tripped.</td>
</tr>
<tr>
<td></td>
<td>Power failure</td>
</tr>
<tr>
<td></td>
<td>- Open the drum door as described in the next section.</td>
</tr>
<tr>
<td></td>
<td>There is still water in the drum and the machine is unable to drain.</td>
</tr>
<tr>
<td></td>
<td>- Check if the drain system is blocked. Clean the drainage system as described in the next section.</td>
</tr>
<tr>
<td></td>
<td>For safety reasons the drum door cannot be opened if the suds temperature is higher than 122 °F / 50°C.</td>
</tr>
</tbody>
</table>

### To continue a program after an interruption to the power supply

If a running program is interrupted, e.g. by a power failure, the program can be continued when power is restored.

- Switch on the washing machine with the I button.
- Then press the Start button.

The program will then continue with the next program stage.
### Frequently Asked Questions

#### Possible reasons for increased levels of foaming

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause and solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excessive foaming</td>
<td><strong>Detergent type</strong>&lt;br&gt;■ Only use detergent suitable for use in industrial washing machines. Domestic detergent is not suitable.</td>
</tr>
<tr>
<td></td>
<td><strong>Too much detergent</strong>&lt;br&gt;■ Dispense detergent in accordance with the instructions on the packaging and on the basis of the local water hardness.</td>
</tr>
<tr>
<td></td>
<td><strong>Detergent creates too much foam</strong>&lt;br&gt;■ Use a lower foaming detergent or contact your detergent application specialist.</td>
</tr>
<tr>
<td></td>
<td><strong>Very soft water</strong>&lt;br&gt;■ In areas with hardness level 1, add less detergent in accordance with the detergent manufacturer’s instructions.</td>
</tr>
<tr>
<td></td>
<td><strong>Soiling level of the laundry</strong>&lt;br&gt;■ For lightly soiled laundry, add less detergent in accordance with the detergent manufacturer’s instructions.</td>
</tr>
<tr>
<td></td>
<td><strong>Residues, e.g. detergent left on laundry</strong>&lt;br&gt;■ Run an additional pre-rinse without detergent and without selecting a temperature. Laundry which has been pre-treated before washing must be thoroughly rinsed before washing.</td>
</tr>
<tr>
<td></td>
<td><strong>Small loads</strong>&lt;br&gt;■ Reduce the amount of detergent accordingly.</td>
</tr>
<tr>
<td></td>
<td><strong>Drum speed too high during the wash cycle</strong>&lt;br&gt;■ Reduce the drum speed and wash cycle.</td>
</tr>
</tbody>
</table>
## Stretching of large items

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause and solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stretching of large items during spinning</td>
<td>- Please contact Miele Technical Service.</td>
</tr>
<tr>
<td></td>
<td>Stretching of large items can occur during spinning.</td>
</tr>
</tbody>
</table>
Cleaning and care

Cleaning and care

Clean and care for the machine after use if possible.

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

- Clean the **machine casing, control panel and plastic parts** only with a mild, non-abrasive detergent or a soft damp cloth. Wipe dry with a soft cloth.

  Scouring agents will scratch the surface.

- Clean stainless steel parts of the casing with a standard commercial stainless steel cleaner.

- Remove any deposits from the door seal with a damp cloth.

  Do not allow cleaning agents to penetrate the electrical components.

- When disinfecting the surfaces, use a damp cloth only to clean the front and around the door lock. Do not spray the surface with the fluid.

  **Tip:** Vacuum the fan casing if it is very dusty. The fan casing is located on the rear of the machine.

Build-up of rust

The drum is manufactured from rust-free stainless steel. However, water with a high iron content or foreign bodies in the wash (e.g. paper clips or metal buttons) may lead to the formation of superficial rust spots in the drum. Stainless steel components should be cleaned regularly and as soon as rust spots appear with standard commercial cleaning agent for stainless steel. Door seals should also be regularly cleaned and checked to make sure that nothing has become trapped. These preventive measures should be carried out on a regular basis.

Cleaning the detergent dispenser drawer and siphon

- After use, the detergent dispenser drawer should be cleaned with warm water to remove any detergent residues.

- If the machine is not going to be used for a longer time, leave the flap of the detergent dispenser drawer open.

- Also clean the siphons in the special dispenser drawers.
Cleaning and care

Remove the siphons, clean with hot water and replace.

Cleaning the drip channel and siphon

- Open the flap on the dispenser drawer on the right side to an angle of 45°.

If the drip channel and associated drain connection are blocked, clean them.

- Check the grille of the vapor vent on the rear of the machine for soiling from time to time and clean when necessary.

- The filters in the water inlet valves (1) and the inlet hoses (2) must be checked for soiling from time to time and cleaned as necessary.
Installing the washing machine

The washing machine must be installed by Miele Service or by an authorized dealer. Follow the instructions on the installation plan.

This washing machine is only intended for items of laundry that have not been proofed with dangerous or inflammable substances.

- To avoid the risk of frost damage, the machine must not be located in rooms which may be subject to very low temperatures
- Transport the machine inside the room on a pallet jack.

Do not remove or alter the feet of the machine. They could be damaged.

- Remove packaging carefully with a suitable tool.
- Lift the machine off the pallet using a pallet jack.

General operating conditions

This washing machine is intended only for use in an industrial environment and must only be operated indoors.

Ambient temperature in installation room: 32 °F (0°C) to 140 °F (40°C).

Relative humidity: non-condensing

Depending on the nature of the installation site, sound emissions and vibration may occur.

Tip: Have the installation site inspected and seek the advice of a professional in instances where increased noise may cause a nuisance.
Facilitating maintenance
For ease of future maintenance and servicing, the minimum distance to the wall must be observed to enable access.

- You must observe the minimum clearances and distance from the wall.

Minimum distance to the wall approx. 16" / 400 mm to allow for maintenance.

- Adjust the washing machine screw feet until the machine is level.

The machine must be completely level to ensure smooth operation.

Installation on a base
When installed on a raised base, the machine must be secured to the base and the base must be secured to the floor. When installed on a concrete base, the machine must be secured to the base.
Remove the shipping struts.
The 2 shipping safety devices at the front are each secured with 3 hexagonal screws. The 2 at the back are secured with 4 hexagonal screws. The shipping struts must only be removed when the machine is in place, before it is commissioned.

- Remove front and back panel.
- Unscrew the screws at the bottom of the front panel and remove the panel.
- Unscrew the screws at the bottom edge of the rear panel and remove the panel.
- Loosen the hexagonal screws to remove the shipping struts.
Retain the shipping struts. They need to be refitted should the machine ever need to be moved again.

**Water connection**

Water pressure (flow pressure) of a minimum 1 bar (100 kPa) / maximum 10 bar (1000 kPa) is required to guarantee problem free program operation.

The machine must be connected to the water supply using the inlet hoses provided.

Hoses must be replaced with hoses tested for a burst pressure of at least 70 bar (7,000 kPa) overpressure and for water temperatures of a minimum of 194 °F / 90 °C.

This also applies for associated connection fittings. Miele original replacement parts fulfil these requirements.

**Tip:** The hot water supply must not exceed a maximum temperature of 158 °F / 70 °C.

**Connection to the cold water supply**

The Y-piece is supplied with the machine.
Dispensing agent connection to the liquid dispensing mixing compartment

Connections 1 and 2 are provided for viscous detergents. These connection sockets are sealed and need to be drilled out with an 1/3" / 8 mm drill bit.

Use caution when drilling through the outer wall (1) only, as there is a deflecting wall (2)10 mm behind it.
If the drilled out connections are no longer required, they must be resealed.

Connections 3 to 12 are for liquid dispensing. These connection sockets are sealed and must be cut to the diameter of the hose with a suitable saw. If the cut out connections are no longer required, they must be resealed.
Installation and connection

Drainage

2 1/2" (DN 70) AV drain valve, at the machine, 2 1/2" (DN 70) sleeve on-site. Volumetric flow rate 52 gal/min 200 l/min.

If the slope for drainage is extremely steep, the piping must be vented so prevent formation of a vacuum in the machine's drain system.

BWS suds drain and vapor vent

If excessive suds form, suds may escape from the vapor vent. To drain the suds, an optional vapor vent kit can be installed.
Electrical connection

The electrical connections must be carried out by a certified electrician in accordance with national codes and regulations.

**Tip:** Open the machine lid to access the connection points.

If you install a residual current device (RCD), it must be **Type B**.

The machine electrical systems comply with standards EN 60335-1 and EN 50571.

The voltage is stated on the data plate.

For hard-wired machines, an all-pole means of deactivation must be provided on site. Switches with a minimum contact gap greater than 1/8" (3 mm) are suitable disconnectors. These include circuit breakers, fuses, and contactors (VDE 0660).

The plug connection or the disconnector must be accessible at all times.

You must be able to lock the disconnector or monitor the point of disconnection at all times if the machine has to be disconnected from the power supply.

Please check the enclosed wiring diagram.
Program chart - Basic programs

Cottons Hygiene program

<table>
<thead>
<tr>
<th>Cottons Hygiene</th>
<th>194°F / 90°C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>White cotton, linen and mixed fiber, e.g. bed linen and toweling</td>
<td>1:10 - 1:9</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-wash 104°F / 40°C, optional</td>
<td>PW 811</td>
</tr>
<tr>
<td></td>
<td>Main wash 194°F / 90°C, Cooldown can be activated</td>
<td>24 - 26 lb (11 - 12 kg)</td>
</tr>
<tr>
<td></td>
<td>2 rinses</td>
<td>PW 814</td>
</tr>
<tr>
<td></td>
<td>Final rinse hot water</td>
<td>31 - 35 lb (14 - 16 kg)</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
<td>PW 818</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40 - 44 lb (18 - 20 kg)</td>
</tr>
</tbody>
</table>

* The standard programs Cottons Hygiene 90°C (194°F) and Cottons 60°C (140°F) are programmed for hot water rinse. If hot water is available, we recommend using hot water for the final rinse.
- The residual moisture of the laundry is lower after the spin cycle.
- The laundry is already warmed.
- This saves time and energy if the laundry is immediately either dried in a tumble dryer or ironed with a rotary ironer.
### Program chart

#### Cottons programs

<table>
<thead>
<tr>
<th>Cottons</th>
<th>140°F / 60°C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Normally soiled cotton, linen or mixed fiber, e.g. bed linen and toweling</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>+ Pre-wash 86°F / 30°C, optional Main wash 104°F / 60°C 2 rinses Last rinse warm* Final spin</td>
<td>1:10 - 1:9 PW 811 24 - 26 lb (11 - 12 kg) PW 814 31 - 35 lb (14 - 16 kg) PW 818 40 - 44 lb (18 - 20 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cottons Intensive</th>
<th>140°F / 60°C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Heavily soiled cotton, linen or mixed fiber, e.g. bed linen and toweling</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>+ Pre-wash 86°F / 30°C, optional Main wash 104°F / 60°C 2 rinses Last rinse warm* Final spin</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cottons</th>
<th>86°F / 30°C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Normally soiled cotton, linen or mixed fiber, e.g. bed linen and toweling</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>+ Pre-wash 86°F / 30°C, optional Main wash 86°F / 30°C 2 rinses Final spin</td>
<td></td>
</tr>
</tbody>
</table>

* The standard programs **Cottons Hygiene 194°F (90°C)** and **Cottons 140°F (60°C)** are programmed for hot water rinse. If hot water is available, we recommend using hot water for the final rinse. - The residual moisture of the laundry is lower after the spin cycle. - The laundry is already warmed. - This saves time and energy if the laundry is immediately either dried in a tumble dryer or ironed with a rotary ironer.
### Program chart

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Program sequence</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cottons Intensive</strong></td>
<td>86°F / 30°C</td>
<td>1:10 - 1:9</td>
</tr>
<tr>
<td>Heavily soiled cotton, linen or mixed fiber, e.g. bed linen and toweling</td>
<td>+ Pre-wash 86°F / 30°C, optional Main wash 86°F / 30°C 2 rinses Final spin</td>
<td>PW 811 24 - 26 lb (11 - 12 kg)</td>
</tr>
<tr>
<td><strong>Cottons Universal Eco Short</strong></td>
<td>86°F / 30°C</td>
<td>1:10 - 1:9</td>
</tr>
<tr>
<td>Lightly soiled cotton, linen and mixed fiber, e.g. bed linen and toweling</td>
<td>+ Pre-wash 86°F / 30°C, optional Main wash 122°F / 50°C 2 rinses Final spin</td>
<td>PW 814 31 - 35 lb (14 - 16 kg)</td>
</tr>
<tr>
<td><strong>Cottons Universal Eco Short</strong></td>
<td>86°F / 30°C</td>
<td>1:10 - 1:9</td>
</tr>
<tr>
<td>Lightly soiled cotton, linen and mixed fiber, e.g. bed linen and toweling</td>
<td>+ Pre-wash 86°F / 30°C, optional Main wash 122°F / 50°C 2 rinses Final spin</td>
<td>PW 818 40 - 44 lb (18 - 20 kg)</td>
</tr>
</tbody>
</table>
## Program chart

### Minimum iron programs

<table>
<thead>
<tr>
<th>Minimum iron</th>
<th>140 °F / 60 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>Normally soiled synthetic and mixed fibre fabrics</td>
<td></td>
</tr>
<tr>
<td>Program sequence</td>
<td>+L Pre-wash 86 °F / 30 °C, optional</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Main wash 122 °F / 60 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 rinses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
<td></td>
</tr>
</tbody>
</table>

### Minimum iron intensive 140 °F / 60 °C

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Heavily soiled synthetic and mixed fibre fabric.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program sequence</td>
<td>+L Pre-wash 86 °F / 30 °C, optional</td>
</tr>
<tr>
<td></td>
<td>Main wash 122 °F / 60 °C</td>
</tr>
<tr>
<td></td>
<td>2 rinses</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
</tr>
</tbody>
</table>

### Minimum iron 86 °F / 30 °C

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Normally soiled synthetic and mixed fibre fabrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program sequence</td>
<td>+L Pre-wash 86 °F / 30 °C, optional</td>
</tr>
<tr>
<td></td>
<td>Main wash 86 °F / 30 °C</td>
</tr>
<tr>
<td></td>
<td>2 rinses</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
</tr>
</tbody>
</table>

### Minimum iron intensive 86 °F / 30 °C

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Heavily soiled synthetic and mixed fibre fabric.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program sequence</td>
<td>+L Pre-wash 86 °F / 30 °C, optional</td>
</tr>
<tr>
<td></td>
<td>Main wash 86 °F / 30 °C</td>
</tr>
<tr>
<td></td>
<td>2 rinses</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
</tr>
</tbody>
</table>
## Delicates and woolens' programs

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Program sequence</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic fabrics</td>
<td>Main wash 86°F / 30°C, Wash rhythm &quot;gentle&quot;, 2 rinses, Final spin</td>
<td></td>
</tr>
<tr>
<td>Woolens</td>
<td></td>
<td>1:25</td>
</tr>
<tr>
<td>Machine washable woolens and wool mixtures with a woolens care label</td>
<td>Main wash 86°F / 30°C, Wash rhythm &quot;very gentle&quot;, 2 rinses, Final spin</td>
<td>PW 811 - 10 lb / 4.4 kg, PW 814 - 12 lb / 5.6 kg, PW 818 - 16 lb / 7.2 kg</td>
</tr>
<tr>
<td>Hand-washable woolens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washable woolens and wool mixtures with a wool mark</td>
<td>Main wash 86°F / 30°C, Wash rhythm &quot;gentle&quot;, 2 rinses, Final spin</td>
<td></td>
</tr>
</tbody>
</table>
# Program chart

## Separate rinse

<table>
<thead>
<tr>
<th>Separate rinse</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Fabrics that only need to be rinsed and spun</td>
</tr>
</tbody>
</table>
| **Program sequence** | 1 rinse  
| | Final spin |

## Separate spin

<table>
<thead>
<tr>
<th>Separate spin</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Articles which have been washed and only need to be spun in the machine</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Final spin</td>
</tr>
</tbody>
</table>

## Separate drain

<table>
<thead>
<tr>
<th>Separate drain</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Drainage</td>
</tr>
</tbody>
</table>

## Starch

<table>
<thead>
<tr>
<th>Starch</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>For starching freshly laundered items such as table cloths, serviettes and workwear</td>
</tr>
</tbody>
</table>
| **Program sequence** | 1 rinse*  
| | Final spin |

* Starch solution can be added in the front or rear detergent compartment before the program starts. Larger amounts of starch solution can be dispensed by hand as the water is flowing into detergent compartments or .
Program chart - Hotel/Restaurant/Catering

A multitude of textiles with widely varying degrees of soiling fall into this area. This program is suitable for washing lightly soiled bedding and towels, through heavily soiled table linen to very heavily soiled kitchen linen.

Programs for bedding and toweling

<table>
<thead>
<tr>
<th>Bedding and toweling</th>
<th>Temperature</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White cotton, linen and mixed fibre bed linen and toweling</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+[P] Pre-wash 103 °F / 40°C, optional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main wash 194 °F / 90°C, Cooldown can be activated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 rinses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final spin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bedding and toweling</th>
<th>Temperature</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorfast and white cotton, linen and mixed fibre bed linen and toweling</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+[P] Pre-wash 103 °F / 40 °C, optional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main wash 140 °F / 60 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 rinses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final spin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Wash with maximum load.

Mattress covers

<table>
<thead>
<tr>
<th>Mattress covers</th>
<th>Temperature</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synthetic waterproof mattress protectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+[P] Pre-wash 86 °F / 30 °C, optional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main wash 122 °F / 60 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 rinses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final spin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Wash with maximum load.
# Program chart

## Spa toweling

<table>
<thead>
<tr>
<th>Spa toweling</th>
<th>122 °F / 50 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Colorfast and white cotton, linen and mixed fibre bed linen and toweling with heavy oil and grease soiling</td>
</tr>
</tbody>
</table>
| **Program sequence** | Main wash 122 °F / 50 °C  
+ Main wash Extra 167 °F / 75 °C, optional**  
2 rinses  
Final spin |
| Fill ratio/Load size | 1:13*  
PW 811 - 19 lb  
(8.6 kg)  
PW 814 - 23 lb  
(10.8 kg)  
PW 818 - 30 lb  
(13.8 kg) |

* Wash with maximum load.  
** For heavy soiling, e.g. from creams or massage oil, the clear wash can be selected with a higher temperature. A suitable bleaching agent can be added to treat stains if required.

## Bathrobes

<table>
<thead>
<tr>
<th>Bathrobes</th>
<th>140 °F / 60 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton and mixed fibre bathrobes (select + Pre-wash 103 °F / 40°C for heavily soiled items)</td>
</tr>
</tbody>
</table>
| **Program sequence** | + Pre-wash 103 °F / 40 °C, optional  
Main wash 140 °F / 60 °C  
2 rinses  
Final spin |
| Fill ratio/Load size | 1:13*  
PW 811 - 19 lb  
(8.6 kg)  
PW 814 - 23 lb  
(10.8 kg)  
PW 818 - 30 lb  
(13.8 kg) |

* Wash with maximum load.

## Kitchen laundry

<table>
<thead>
<tr>
<th>Kitchen laundry</th>
<th>194 °F / 90 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, linen and mixed fibre kitchen textiles.</td>
</tr>
</tbody>
</table>
| **Program sequence** | Pre-wash  
Pre-wash 103 °F / 40 °C  
Main wash 194 °F / 90 °C, Cooldown can be activated  
3 rinses  
Final spin |
| Fill ratio/Load size | 1:13  
PW 811 - 19 lb  
(8.6 kg)  
PW 814 - 23 lb  
(10.8 kg)  
PW 818 - 30 lb  
(13.8 kg) |
# Program chart

<table>
<thead>
<tr>
<th>Table linen</th>
<th>194 °F / 90 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>White cotton, linen and mixed fibre table linen</td>
<td>1:10</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-wash 103 °F / 40 °C, Main wash 194 °F / 90 °C, Cooldown can be activated, 2 rinses, Final spin</td>
<td>PW 811 - 24 lb / 11 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table linen</th>
<th>140 °F / 60 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Colorfast cotton, linen and mixed fibre table linen</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-wash 103 °F / 40 °C, Main wash 140 °F / 60 °C, 2 rinses, Final spin</td>
<td>PW 814 - 30 lb / 14 kg, PW 818 - 40 lb / 18 kg</td>
</tr>
</tbody>
</table>

'Curtains' program package:

<table>
<thead>
<tr>
<th>Curtains</th>
<th>104 °F / 40 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Synthetic fabrics</td>
<td>1:25 - 1:20</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-wash 86 °F / 30°C, optional, Main wash 103 °F / 40 °C, 3 rinses, Final spin</td>
<td>PW 811 - 11 lb (5.0 kg), PW 814 - 14 lb (6.2 kg), PW 818 - 18 lb (8.0 kg)</td>
</tr>
</tbody>
</table>

Program sequence without spin:

- Press the ☊ "Without spin" button.
- In "Without spin" status you can end the program by pressing the ☊ "Stop / Finish" button with water still remaining in the machine.
- Press the ☥ "Drain" button.
Program chart

Program chart - Bedding

This program is suitable for washing natural fibre or synthetic unquilted duvets, duvets or grid duvets.

This program is only suitable for washing textiles which have a care label stating that they are machine washable.

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavily soiled down and feather filled duvets and pillows.</td>
<td></td>
</tr>
<tr>
<td>Compress</td>
<td></td>
</tr>
<tr>
<td>+</td>
<td></td>
</tr>
<tr>
<td>Pre-wash 86 °F / 30 °C, optional</td>
<td></td>
</tr>
<tr>
<td>Main wash 140 °F / 60 °C</td>
<td></td>
</tr>
<tr>
<td>2 rinses</td>
<td></td>
</tr>
<tr>
<td>Final spin</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normally soiled down and feather filled duvets and pillows.</td>
<td>see “Bedding load sizes”</td>
</tr>
<tr>
<td>Compress</td>
<td></td>
</tr>
<tr>
<td>+</td>
<td></td>
</tr>
<tr>
<td>Pre-wash 86 °F / 30 °C, optional</td>
<td></td>
</tr>
<tr>
<td>Main wash 103 °F / 40 °C</td>
<td></td>
</tr>
<tr>
<td>2 rinses</td>
<td></td>
</tr>
<tr>
<td>Final spin</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavily soiled synthetic duvets and pillows.</td>
<td></td>
</tr>
<tr>
<td>Compress</td>
<td></td>
</tr>
<tr>
<td>+</td>
<td></td>
</tr>
<tr>
<td>Pre-wash 86 °F / 30 °C, optional</td>
<td></td>
</tr>
<tr>
<td>Main wash 122 °F / 60 °C</td>
<td></td>
</tr>
<tr>
<td>2 rinses</td>
<td></td>
</tr>
<tr>
<td>Final spin</td>
<td></td>
</tr>
<tr>
<td>Synthetic duvets</td>
<td>104 °F / 40 °C</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------</td>
</tr>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Normally soiled synthetic duvets and pillows.</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>+ Pre-wash 86 °F / 30 °C, optional&lt;br&gt;Main wash 103 °F / 40 °C&lt;br&gt;2 rinses&lt;br&gt;Final spin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Natural fibre duvets</th>
<th>77 °F / 25 °C</th>
<th>see “Bedding load sizes”*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Machine washable natural fibre quilts and blankets.</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Main wash 77 °F / 25 °C, Wash rhythm “extra gentle”&lt;br&gt;2 rinses&lt;br&gt;Waterproof finish&lt;br&gt;Final spin</td>
<td></td>
</tr>
</tbody>
</table>

**Add detergent**

**Tip:** Liquid detergent is recommended. For heavy soiling powder detergent can be added for a better wash result.

**Bedding load sizes**

The maximum load sizes can be taken from the following table. The given loads are approximate only and vary depending on the size and thickness of the bedding.

<table>
<thead>
<tr>
<th>Model</th>
<th>Quantity*</th>
</tr>
</thead>
<tbody>
<tr>
<td>PW 811</td>
<td>2 pillows or 1 duvet</td>
</tr>
<tr>
<td>PW 814</td>
<td>3 pillows or 1 pillow +1 duvet</td>
</tr>
<tr>
<td>PW 818</td>
<td>4 pillows or 2 pillows +1 duvet or 2 duvets</td>
</tr>
</tbody>
</table>

* A duvet is equal to approx. 2 pillows.

**Tip:** Unquilted duvets must be tied a few time to keep imbalance to a minimum and ensure good wash results.
Program chart

Program chart - Disinfection

All programs are locked. After 1 minute into a program the program can no longer be aborted, stopped or parts skipped.

To avoid recontamination, in the disinfection program the water for the rinse cycles is not supplied via the detergent dispenser.

<table>
<thead>
<tr>
<th>Thermal disinfection</th>
<th>194 °F / 90 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, linen e.g. bed linen, toweling</td>
<td></td>
</tr>
</tbody>
</table>
| **Program sequence**         | Pre-wash 103 °F / 40 °C, optional  
Disinfection 194 °F / 90 °C, 10 min., Cooldown can be activated  
2 rinses  
Final rinse |
| **Thermal disinfection RKI*  | 194 °F / 90 °C |
| **Type of fabric**           | Cotton, linen e.g. bed linen, toweling |
| **Program sequence**         | Disinfection 194 °F / 90 °C, 10 min., Cooldown can be activated  
2 rinses  
Final rinse |

<table>
<thead>
<tr>
<th>Chemo-thermal disinfection</th>
<th>140 °F / 60 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, linen e.g. bed linen, toweling</td>
</tr>
</tbody>
</table>
| **Program sequence**         | Pre-wash 103 °F / 40 °C, optional  
Disinfection 140 °F / 60 °C, 20 min.,  
2 rinses  
Final rinse |
| **Chemo-thermal disinfection RKI* | 140 °F / 60 °C |
| **Type of fabric**           | Cotton, linen e.g. bed linen, toweling |
| **Program sequence**         | Disinfection 103 °F / 40 °C**, 20 min.  
2 rinses  
Final spin |

RKI = (Robert Koch Institute)

** The disinfection parameters for chemo-thermal disinfection (temperature, temperature holding time, and dosages) must be set on site to suit cleaning agents and disinfectants.
**Program chart**

<table>
<thead>
<tr>
<th>Chemo-thermal disinfection</th>
<th>104 °F / 40 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, mixed fibre up to 104 °F / 40 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>+ Pre-wash 86 °F / 30 °C, optional Disinfection 103 °F / 40 °C**, 20 min. Wash rhythm &quot;gentle&quot; 2 rinses Final spin</td>
<td>1:10 PW 811 - 25 lb (11 kg) PW 814 - 30 lb (14 kg) PW 818 - 40 lb (18 kg)</td>
</tr>
<tr>
<td><strong>Chemo-thermal disinfection RKI</strong></td>
<td>104 °F / 40 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, mixed fibre up to 104 °F / 40 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Disinfection 103 °F / 40 °C**, 20 min. Wash rhythm &quot;gentle&quot; 2 rinses Final spin</td>
<td></td>
</tr>
<tr>
<td><strong>Incontinence laundry</strong></td>
<td>194 °F / 90 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Washable diapers</td>
<td>1:13 PW 811 - 19 lb (8.6 kg) PW 814 - 23 lb (10.8 kg) PW 818 - 30 lb (13.8 kg)</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-rinse + Pre-rinse, optional Pre-wash 103 °F/ 40 °C Disinfection 194 °F / 90 °C, 10 min., Cooldown can be activated 3 rinses Final spin</td>
<td></td>
</tr>
<tr>
<td><strong>Sluice laundry</strong></td>
<td>194 °F / 90 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Heavily soiled personal clothing, cotton</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>2 Pre-rinses Pre-wash 103 °F / 40 °C Disinfection 194 °F / 90 °C, 10 min. 3 rinses Final spin</td>
<td></td>
</tr>
</tbody>
</table>

RKI = (Robert Koch Institute)

** The disinfection parameters for chemo-thermal disinfection (temperature, temperature holding time, and dosages) must be set on site to suit cleaning agents and disinfectants.
Disinfection - general information

What is disinfection?
Deactivation and reduction in number of pathogens transmitting diseases to such an extent that the transmission of diseases and infection is no longer to be anticipated.

Thermal disinfection
Thermal disinfection occurs by maintenance of defined temperatures over a holding time. In the list in accordance with § 18 IFSG, these are 194 °F / 90 °C over 10 min. or 185 °F / 85 °C over 15 min. in a load-to-liquid ratio of 1 - 4 to 1 - 5 in the area of impact AB. Thermal disinfection is independent of detergent used and this does not need to comply with any listing.

Chemo-thermal disinfection
Chemo-thermal disinfection differs from thermal disinfection by means of a lower wash liquid temperature during the disinfection stage. The use of correspondingly listed washing and disinfecting components compensates for the lower temperature. It is important that these products are used in strict compliance with the listing. The wash liquid temperature, the load-to-liquid ratio and the dispensing time must all be strictly observed.

For disinfection wash programs there are two lists in which the necessary process parameters with regard to washing and disinfecting agents are listed.

RKI-List (Robert-Koch-Institute)
Describes epidemic procedure according to § 18 Infection Protection law. These procedures are only required when a health authority prescribes the use of disinfection in the event of the outbreak of an epidemic relating to a notifiable disease where there is a risk of items being contaminated. Thermal and chemo-thermal disinfection processes for this are both described in the RKI list.

Disinfection process according to areas of impact
Disinfection procedure is divided into areas of impact A, B and C.

- Area of impact A:
  Suitable for the destruction of vegetative bacteria, including myco-bacteria, fungus and fungal spores.

- Area of impact B:
  Suitable for deactivating viruses.

- Area of impact C:
  Suitable for killing anthrax spores.

In the event of officially directed disinfection, the first drainage of wash liquid may not be discharged until after disinfection has been carried out!
VAH list

VAH = Association for Applied Hygiene
(previously DGHM = German Society for Hygiene and Microbiology)

The VAH/DGHM list describes the procedures required for routine prophylactic disinfection, and in particular for the prevention of infection in hospitals, doctor’s surgeries, public areas and other areas where there may be the risk of infection spreading.

With respect to an officially directed disinfection § 18 Infection Protection law is invoked.

As medical products, operating textiles require the use of specially validated processes and machines. The processes and machines described here are not medical products.

Avoidance of contamination or recontamination

- Disinfect your hands before using the machine.
- Use clean / disinfected transport containers.
- Dispense washing and disinfecting agents in accordance with instructions.
- Observe regulation regarding the wearing of protective clothing.
- Ensure that water is bacteria-free when using water from water treatment units.
- Clean detergent dispenser drawers, detergent compartments and siphons before use.

Cleaning dispenser drawers and siphons

The detergent dispenser drawer is subjected to constant moisture. This needs to be cleaned regularly to prevent the build-up of water-borne bacteria.

- Clean the detergent dispenser drawer, detergent compartments and siphon thoroughly with hot water as required, taking care to remove detergent residues and encrustation.

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

"Clean machine" program

For cleaning the detergent dispenser drawer, drum, suds container and the drainage system.

- If you use low temperature or disinfection programs on a regular basis, or to remove coarse soiling, the Clean machine program should be carried out frequently.

<table>
<thead>
<tr>
<th>Clean machine</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
</tr>
</tbody>
</table>

* The **Cleaning** block which takes water in through all inlets and has the temperature increased to 158 °F / 70 °C, can be selected with this program by pressing the Block Plus button. If the Cleaning block is included in the Maintenance program, detergent needs to be dispensed.
Program chart

These programs are suitable for washing, disinfection and conditioning (at different humidity levels) of mops of cotton, blended or microfiber fabric, door mats, polishing pads and cleaning cloths used in facility management.

To avoid recontamination, in the disinfection program the water for the rinse cycles is not supplied via the detergent dispenser.

Mop programs

Avoids coarse soiling in the machine.

- Shake the mops out before putting them into the machine.

<table>
<thead>
<tr>
<th>Mops standard</th>
<th>140 °F / 194 °F - 60 °C / 90 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>Cotton and mixed fiber, viscose, polyester and microfiber mops</td>
<td></td>
</tr>
</tbody>
</table>
| Program sequence | Pre-spin  
Pre-rinse  
+ 2nd pre-rinse, optional  
Main wash 140 °F/203 °F - 60 °C/ 90 °C, Cool down can be activated  
2 rinses  
Final spin | |

<table>
<thead>
<tr>
<th>Mops standard + finish</th>
<th>140 °F / 194 °F - 60 °C / 90 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>Cotton and mixed fiber, viscose, polyester and microfiber mops</td>
<td></td>
</tr>
</tbody>
</table>
| Program sequence | Program sequence as for Mops standard, then: Finishing agent, damp or activate block:  
Damp, wet, dripping wet | |

<table>
<thead>
<tr>
<th>Mops th. disinfection</th>
<th>194 °F / 90 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>Cotton and mixed fiber, viscose, polyester and microfiber mops</td>
<td></td>
</tr>
</tbody>
</table>
| Program sequence | Pre-spin  
Pre-rinse  
+ 2nd pre-rinse, optional  
Disinfection 194 °F / 90 °C, 10 min., Cool down can be activated  
3 rinses  
Final spin | |

No. pieces

See chart "Mop load size"

PW 811 - 25 lb (11 kg)  
PW 814 - 30 lb (14 kg)  
PW 818 - 40 lb (18 kg)
### Program chart

<table>
<thead>
<tr>
<th>Mops thermal disin. + finish</th>
<th>194 °F / 90 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton and mixed fiber, viscose, polyester and microfiber mops</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Program sequence as for Mops thermal disinfection, then: Finishing agent, damp or activate block: Damp, wet, dripping wet</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mops ch. th. disinfection</th>
<th>140 °F / 60 °C</th>
<th>1:10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton and mixed fiber, viscose, polyester and microfiber mops</td>
<td>PW 811 - 25 lb (11 kg)</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-spin&lt;br&gt;Pre-rinse&lt;br&gt;+ 2nd rinse, optional&lt;br&gt;Disinfection 140 °F / 60 °C, 20 min.&lt;br&gt;3 rinses&lt;br&gt;Final spin</td>
<td>PW 814 - 30 lb (14 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mops ch. th. disin. + finish</th>
<th>140 °F / 60 °C</th>
<th>No. pieces&lt;br&gt;See chart &quot;Mop load size&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton and mixed fiber, viscose, polyester and microfiber mops</td>
<td>PW 818 - 40 lb (18 kg)</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Program sequence as for Mops Ch.-Th.Disinfection, then:&lt;br&gt;Finishing agent, damp or activate block:&lt;br&gt;Damp, wet, dripping wet</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Finish mops</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
</tr>
</tbody>
</table>

*The disinfection parameters for chemo-thermal disinfection (temperature, temperature holding time and dosages) must be set on site to suit cleaning agents and disinfectants.*
### Mops intensive

| Type of fabric | Cotton and mixed fiber, viscose, polyester and microfiber mops |

#### Program sequence
- Pre-spin
- Pre-rinse
- Pre-wash 86 °F / 30 °C
- Main wash 194 °F / 90 °C, Cool down can be activated
- 3 rinses
- Final spin

#### Fill ratio/Load size
- 1:10
  - PW 811 - 25 lb (11 kg)
  - PW 814 - 30 lb (14 kg)
  - PW 818 - 40 lb (18 kg)

| Type of fabric | For washing new mops |

#### Program sequence
- Main wash 140 °F/194 °F - 60 °C/90 °C, Cool down can be activated
- 2 rinses
- Final spin

#### New mops

<table>
<thead>
<tr>
<th>Program chart</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mops intensive</strong></td>
</tr>
</tbody>
</table>

| Type of fabric | Cotton and mixed fiber, viscose, polyester and microfiber mops |

#### Program sequence
- Pre-spin
- Pre-rinse
- 2nd pre-rinse, optional
- Pre-wash 86 °F / 30 °C
- Main wash 194 °F / 90 °C, Cool down can be activated
- 3 rinses
- Final spin

#### Fill ratio/Load size
- 1:10
  - PW 811 - 25 lb (11 kg)
  - PW 814 - 30 lb (14 kg)
  - PW 818 - 40 lb (18 kg)

### New mops

| Type of fabric | For washing new mops |

#### Program sequence
- Main wash 140 °F/194 °F - 60 °C/90 °C, Cool down can be activated
- 2 rinses
- Final spin

### Mop load size (cotton)

<table>
<thead>
<tr>
<th>Mop size</th>
<th>16&quot; / 40 cm</th>
<th>20&quot; / 50 cm</th>
<th>24&quot; / 60 cm</th>
<th>32&quot; / 80 cm</th>
<th>42&quot; / 110 cm</th>
<th>52&quot; / 130 cm</th>
<th>63&quot; / 160 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 oz / 190 g mop</td>
<td>58 pcs.</td>
<td>50 pcs.</td>
<td>39 pcs.</td>
<td>31 pcs.</td>
<td>22 pcs.</td>
<td>18 pcs.</td>
<td>15 pcs.</td>
</tr>
<tr>
<td>PW 811</td>
<td>74 pcs.</td>
<td>64 pcs.</td>
<td>50 pcs.</td>
<td>39 pcs.</td>
<td>27 pcs.</td>
<td>23 pcs.</td>
<td>19 pcs.</td>
</tr>
<tr>
<td>PW 814</td>
<td>95 pcs.</td>
<td>82 pcs.</td>
<td>64 pcs.</td>
<td>50 pcs.</td>
<td>35 pcs.</td>
<td>30 pcs.</td>
<td>25 pcs.</td>
</tr>
<tr>
<td>PW 818</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Tip:** When using microfiber mops the load size is higher due to the lower mop weight.

The **Mops . . . + finish** program prepares mops ready for use by treating them with cleaning agent or disinfectant. This is achieved by adding a finishing step with a final spin after the washing or disinfecting stage. The level of dampness of the mops can be varied by programming different spin blocks at the end of the program. Amounts dispensed must be adjusted on site and the standard of disinfection must be checked.

The **Finish mops** program is suitable for the subsequent finishing of clean and dry mops. A disinfectant solution is added during finishing. Dispensing quantities must be adjusted on site and the standard of disinfection must be checked.

### Mop load size (cotton)

<table>
<thead>
<tr>
<th>Mop size</th>
<th>16&quot; / 40 cm</th>
<th>20&quot; / 50 cm</th>
<th>24&quot; / 60 cm</th>
<th>32&quot; / 80 cm</th>
<th>42&quot; / 110 cm</th>
<th>52&quot; / 130 cm</th>
<th>63&quot; / 160 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 oz / 190 g mop</td>
<td>58 pcs.</td>
<td>50 pcs.</td>
<td>39 pcs.</td>
<td>31 pcs.</td>
<td>22 pcs.</td>
<td>18 pcs.</td>
<td>15 pcs.</td>
</tr>
<tr>
<td>PW 811</td>
<td>74 pcs.</td>
<td>64 pcs.</td>
<td>50 pcs.</td>
<td>39 pcs.</td>
<td>27 pcs.</td>
<td>23 pcs.</td>
<td>19 pcs.</td>
</tr>
<tr>
<td>PW 814</td>
<td>95 pcs.</td>
<td>82 pcs.</td>
<td>64 pcs.</td>
<td>50 pcs.</td>
<td>35 pcs.</td>
<td>30 pcs.</td>
<td>25 pcs.</td>
</tr>
<tr>
<td>PW 818</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Program chart

## Mop load size (microfiber)

<table>
<thead>
<tr>
<th>Mop size</th>
<th>16&quot; / 40 cm</th>
<th>20&quot; / 50 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 oz / 120 g/mop</td>
<td>6 oz / 170 g/mop</td>
</tr>
<tr>
<td>PW 811</td>
<td>92 pcs.</td>
<td>65 pcs.</td>
</tr>
<tr>
<td>PW 814</td>
<td>117 pcs.</td>
<td>82 pcs.</td>
</tr>
<tr>
<td>PW 818</td>
<td>150 pcs.</td>
<td>106 pcs.</td>
</tr>
</tbody>
</table>

## Mats / pads programs

### Mats

<table>
<thead>
<tr>
<th>104 °F / 40 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>Door mats</td>
</tr>
<tr>
<td>Program sequence</td>
<td>Pre-rinse</td>
</tr>
<tr>
<td></td>
<td>Main wash 103 °F / 40 °C</td>
</tr>
<tr>
<td></td>
<td>3 rinses</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
</tr>
<tr>
<td>Mats heavy soil</td>
<td>140 °F / 60 °C</td>
</tr>
<tr>
<td>Type of fabric</td>
<td>Heavily soiled floor mats</td>
</tr>
<tr>
<td>Program sequence</td>
<td>Pre-rinse</td>
</tr>
<tr>
<td></td>
<td>+ Pre-wash 103 °F / 40 °C, optional</td>
</tr>
<tr>
<td></td>
<td>Main wash cold to 140 °F / 60 °C, 60 min.</td>
</tr>
<tr>
<td></td>
<td>3 rinses</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
</tr>
</tbody>
</table>

### Pads

<table>
<thead>
<tr>
<th>104 °F / 140 °F- 40 °C / 60 °C</th>
<th>1:50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>Polishing pads</td>
</tr>
<tr>
<td>Program sequence</td>
<td>Pre-rinse</td>
</tr>
<tr>
<td></td>
<td>+ 2nd pre-rinse, optional</td>
</tr>
<tr>
<td></td>
<td>Main wash 103 °F / 140 °F - 40 °C/60 °C</td>
</tr>
<tr>
<td></td>
<td>3 rinses</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
</tr>
</tbody>
</table>

### Tip:

The load size for mats can be less depending on size, rigidity and thickness of the mat.
Cleaning cloth programs

These programs are suitable for washing, disinfection and conditioning (at different humidity levels) of mops of cotton, blended or microfiber fabric, entrance mats, polishing pads and cleaning cloths used in facility management.

<table>
<thead>
<tr>
<th>Cleaning cloth programs</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cloths standard</strong></td>
<td>140 °F / 60 °C</td>
</tr>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, viscose, polyester and microfiber cloths</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-rinse + Pre-wash 86 °F / 30 °C, optional Main wash 140 °F / 60 °C, 10 min. 3 rinses Final spin</td>
</tr>
<tr>
<td><strong>Cloths Standard + Finish</strong></td>
<td>140 °F / 60 °C</td>
</tr>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, viscose, polyester and microfiber cloths</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Program sequence as for Cloths standard, then: Finishing agent, damp or activate block: Damp, wet, dripping wet</td>
</tr>
<tr>
<td><strong>Cloths th. disinfection</strong></td>
<td>194 °F / 90 °C</td>
</tr>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, viscose, polyester and microfiber cloths</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-rinse + Pre-wash 86 °F / 30 °C, optional Disinfection 194 °F / 90 °C, 10 min. Cooldown can be activated 3 rinses Final spin</td>
</tr>
<tr>
<td><strong>Cloths th. disin. + Finish</strong></td>
<td>194 °F / 90 °C</td>
</tr>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Cotton, viscose, polyester and microfiber cloths</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Program sequence as for Th.Dis. cloths, then Finishing rinse damp or by activating block: Damp, wet, dripping wet</td>
</tr>
</tbody>
</table>

**Fill ratio/Load size**

- PW 811 - 12 lb / 5.6 kg approx. 350 cloths
- PW 814 - 15 lb / 7 kg approx. 440 cloths
- PW 818 - 20 lb / 9 kg approx. 565 cloths
## Program chart

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Cotton, viscose, polyester and microfiber cloths</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cloths Ch.-Th. disin. 158 °F / 70 °C</strong></td>
<td>Fill ratio/Load size</td>
</tr>
<tr>
<td>Program sequence</td>
<td>Pre-rinse, Pre-wash, optional, Disinfection 158 °F / 70 °C, 10 min. 3 rinses, Final spin</td>
</tr>
<tr>
<td><strong>Cloths ch. th. disin. + Finish 158 °F / 70 °C</strong></td>
<td></td>
</tr>
<tr>
<td>Type of fabric</td>
<td>Cotton, viscose, polyester and microfiber cloths</td>
</tr>
<tr>
<td>Program sequence</td>
<td>Program sequence as for Cloths ch.th. disin., then: Finishing rinse damp or by activating block: Damp, wet, dripping wet</td>
</tr>
<tr>
<td><strong>Finish cloths</strong></td>
<td></td>
</tr>
<tr>
<td>Type of fabric</td>
<td>Cotton, viscose, polyester and microfiber cloths</td>
</tr>
<tr>
<td>Program sequence</td>
<td>1 rinse, Finishing agent, damp or activate block: Damp, wet, dripping wet</td>
</tr>
</tbody>
</table>

The program **Cloths Standard** is also suitable for cleaning cloths that are not to be used immediately after washing, but are to be stored after drying.

Using the **Cloths ... + Finish** programs, cloths are ready to use and steeped in cleaning agent or disinfectant. This is achieved by adding a finishing step with a final spin after washing or disinfecting. The level of dampness of the mops can be varied by programming different spin blocks at the end of the program. Amounts dispensed must be adjusted on site and the standard of disinfection must be checked.

The **Finish cloths** program is suitable for the subsequent finishing of clean and dry cloths. A disinfectant solution is added during finishing. Dispensing quantities are to be adjusted on site and the standard of disinfection must be checked.
Program chart - Fire brigade

This program is suitable for washing and reproofing Nomex fire suits, jackets and trousers, breathing masks and chemical protective suits.

Protective clothing programs

<table>
<thead>
<tr>
<th>Protective clothing wash</th>
<th>140 °F / 60 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>Nomex fire suits, jackets, trousers</td>
<td></td>
</tr>
<tr>
<td>Program sequence</td>
<td>Pre-wash 103 °F /40 °C&lt;br&gt;Main wash 140 °F / 60 °C&lt;br&gt;3 rinses Final spin</td>
<td></td>
</tr>
</tbody>
</table>

Wash/impreg. protective clothing | 140 °F / 60 °C |
| Type of fabric          | Nomex fire suits, jackets, trousers |
| Program sequence        | Pre-wash 103 °F / 40 °C<br>Main wash 140 °F / 60 °C<br>2 Rinses<br>Reproofing 103 °F / 40 °C<br>Final spin |

Protective clothing + Proofing | 104 °F / 40 °C |
| Type of fabric          | Nomex fire suits, jackets, trousers |
| Program sequence        | 1 Rinse<br>Reproofing 103 °F / 40 °C<br>Final spin |

Load size

<table>
<thead>
<tr>
<th>Model</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>PW 811</td>
<td>Approx. 1 - 2 suits (or 3 jackets)</td>
</tr>
<tr>
<td>PW 814</td>
<td>Approx. 2 suits (or 3 jackets)</td>
</tr>
<tr>
<td>PW 818</td>
<td>Approx. 3 suits (or 5 jackets)</td>
</tr>
</tbody>
</table>
**Program chart**

**Preparing protective clothing for washing**

- Do not stick any labels on.
- Remove carabiner hooks if possible or enclose in a side pocket.
- Close Velcro fastenings or cover with Velcro tape.
- Wash sheepskin linings separately.
- Do not wash garments inside out.
- Observe max. load weights.

**Protective clothing** is a program for washing fire brigade suits. It is not suitable for washing clothing lined with sheepskin.

**Tip: Detergent:** We recommend using a liquid detergent with reduced pH, that is particularly effective for dissolving grease and pigmentation stains.

**Tip: Proofing agent:** Proofing agent must be suited to the special requirements of this area of use.
Mask programs

Masks are programs for washing and disinfecting breathing masks with head straps.

- Put the head bands over the masks to protect the visors before loading the machine.
- Put each mask into its own protective bag and fasten it.
- Remove the masks from the bags after processing.
- Spin damp, empty bags using the Spin bags program.

<table>
<thead>
<tr>
<th>Masks</th>
<th>140 °F / 60 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load</td>
<td>Face masks with head straps</td>
<td>PW 811 - 10 masks</td>
</tr>
<tr>
<td>Program sequence</td>
<td>Disinfection* 140 °F / 60 °C, 20 min. 4 rinses</td>
<td>PW 814 - 13 masks</td>
</tr>
<tr>
<td>Masks with pre-wash</td>
<td>140 °F / 60 °C</td>
<td>PW 818 - 15 masks</td>
</tr>
<tr>
<td>Load</td>
<td>For heavily soiled masks with head straps</td>
<td></td>
</tr>
<tr>
<td>Program sequence</td>
<td>Pre-cleaning 86 °F / 30 °C  Disinfection* 140 °F 60 °C, 20 min. 4 rinses</td>
<td></td>
</tr>
<tr>
<td>Spin bags</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load</td>
<td>Face mask bags</td>
<td>1:20</td>
</tr>
<tr>
<td>Program sequence</td>
<td>Spin</td>
<td></td>
</tr>
</tbody>
</table>

* The disinfection parameters for chemo-thermal disinfection (temperature, temperature holding time and dosages) must be set on site to suit cleaning agents and disinfectants.

To avoid recontamination, in the disinfection program the water for the rinse cycles is not supplied via the detergent dispenser.

Do not wash masks with connections for helmet-mask combinations. The clasps are likely to scratch visors.

Use a suitable detergent. Follow the manufacturer's instructions.
Chemical protection suits programs

CSA is a program for washing chemical protection suits as worn by the firefighters. It provides a chemical-thermal disinfection (140 °F (60 °C), 20 min.) which requires the use of the corresponding detergent.

<table>
<thead>
<tr>
<th>CSA (Chemical protection suits)</th>
<th>140 °F / 60 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>Chemical protection suits made of multi-layer laminate</td>
<td></td>
</tr>
<tr>
<td>Program sequence</td>
<td>Disinfection 140 °F / 60 °C, 20 min. 3 rinses</td>
<td>PW 811 - 1 suit PW 814 - 1 suits PW 818 - 2 suits</td>
</tr>
<tr>
<td>CSA special Chemical protective suits - Special</td>
<td>104 °F / 40 °C</td>
<td></td>
</tr>
<tr>
<td>Type of fabric</td>
<td>Chemical protection suits made of multi-layer laminate</td>
<td></td>
</tr>
<tr>
<td>Program sequence</td>
<td>Pre-wash 103 °F / 40 °C</td>
<td></td>
</tr>
</tbody>
</table>

- Observe the recommendation of the protective suit manufacturer regarding maximum wash temperature.
- In the case of unidentified soiling, check decontamination, as this is not guaranteed and must be checked.
- To remove external soiling, zip/close suits before treatment with the "CSA special program". Unzip/open the garments for disinfection with the "CSA program" for soiling on the inside and outside. Turn the hood inside out to protect the visor and place the feet over it.
- Observe the minimum load size for the machine so that the suits do not unfold and cause damage to the visors, or prevent them from unfolding by using a suitably-sized laundry net.
- Heavily contaminated suits should be pre-washed using the "CSA special" program.
Program chart - Textile cleaner

WetCare "wet cleaning" is a very gentle cleaning process using water and special care products for clothing that could previously only be cleaned chemically.

<table>
<thead>
<tr>
<th>WetCare sens.</th>
<th>77 °F / 25 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>For non washable outer garments</td>
<td>1:20 - 1:15</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>+ Pre-wash 77 °F / 25°C, optional</td>
<td>PW 811</td>
</tr>
<tr>
<td></td>
<td>Main wash 77 °F /25 °C</td>
<td>12 - 16 lb / 5.6 - 7.4 kg</td>
</tr>
<tr>
<td></td>
<td>Waterproof finish 77 °F /25 °C</td>
<td>PW 814</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
<td>15 - 21 lb / 7 - 9.4 kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PW 818</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 - 26 lb / 9 - 12 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WetCare Silks</th>
<th>86 °F / 30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>For non washable outer garments which crease easily</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Main wash 86 °F / 30 °C , optional</td>
</tr>
<tr>
<td></td>
<td>Waterproof finish 77 °F / 25 °C</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WetCare int.</th>
<th>104 °F / 40 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Washable outer garments</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-wash, 86 °F / 30 °C , optional</td>
</tr>
<tr>
<td></td>
<td>Main wash 103 °F / 40 °C</td>
</tr>
<tr>
<td></td>
<td>Rinse</td>
</tr>
<tr>
<td></td>
<td>Waterproof finish 77 °F / 25 °C</td>
</tr>
<tr>
<td></td>
<td>Final spin</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hot water valves are not activated in textile cleaning programs. Water inflow temperature must not exceed 86 °F / 30 °C.
### Program chart

#### Program chart - Reproofing

<table>
<thead>
<tr>
<th>Wash/reproof</th>
<th>104 °F / 40 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fabric</td>
<td>For all washable garments requiring reproofing (e.g. outdoor clothing)</td>
<td>1:20 - 1:15</td>
</tr>
<tr>
<td>Program sequence</td>
<td>+ Pre-wash 86 °F / 30 °C, optional Main wash 103 °F / 40 °C 2 rinses Reproofing 103 °F / 40 °C Final spin</td>
<td>PW 811 15 lb / 6.6 kg PW 814 18 lb / 8.2 kg PW 818 23 lb /10.6 kg</td>
</tr>
</tbody>
</table>

| Rinse/reproof | 104 °F / 40 °C | Type of fabric | For all washable garments requiring reproofing (e.g. outdoor clothing) |
| Program sequence | 1 Rinse Reproofing 103 °F / 40 °C Final spin |
Program chart - Riding stables

This program is suitable for washing and reproofing horse blankets, saddle-cloths, gaiters, hoof boots, bandages, textile halters

<table>
<thead>
<tr>
<th>Horse blankets</th>
<th>140 °F / 60 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Horse blankets, saddle-cloths, gaiters, hoof boots, bandages, textile halters</td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-rinse + 2nd pre-rinse, optional Pre-wash 103 °F / 40 °C Main wash 140 °F / 60 °C 3 rinses Final rinse</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Horse blankets</th>
<th>86 °F / 30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Horse blankets, saddle-cloths, gaiters, hoof boots, bandages, textile halters</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-rinse + 2nd pre-rinse, optional Pre-wash 86 °F / 30 °C Main wash 86 °F / 30 °C 3 rinses Final rinse</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Woolen horse blankets</th>
<th>86 °F / 30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Horse blankets containing wool</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-rinse Pre-wash 86 °F / 30 °C Main wash 86 °F / 30 °C Wash rhythm &quot;gentle&quot; 2 rinses Final rinse</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wash/proof horse blankets</th>
<th>86 °F / 30 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Horse blankets, saddle-cloths, gaiters, hoof boots, bandages, textile halters</td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Pre-rinse + 2nd pre-rinse, optional Pre-wash 86 °F / 30 °C Main wash 86 °F / 30 °C 2 rinses Reproofing 86 °F / 30 °C Final rinse</td>
</tr>
</tbody>
</table>

See "Load size" chart 1:13
Program chart

Pre-treatment
Remove coarse soiling from very heavily soiled blankets with a strong jet of water or a vacuum cleaner.

Detergents
When washing, use a detergent without bleaching agents or optical brighteners. Products with a slightly reduced pH-level should be used for blankets containing wool. If necessary, products containing enzymes can be added. However, if this is done, ensure that such products do not contain protease, as these enzymes will attach themselves to the wool and damage it.

Load size

<table>
<thead>
<tr>
<th>Model</th>
<th>Load, maximum 3/4 of the total recommended load</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Saddle cloths</td>
</tr>
<tr>
<td>PW 811</td>
<td>8</td>
</tr>
<tr>
<td>PW 814</td>
<td>10</td>
</tr>
<tr>
<td>PW 818</td>
<td>12</td>
</tr>
</tbody>
</table>

Buckles

Metal buckles, hooks and eye fasteners must be covered to protect the drum. Special bags for this purpose are available to order from Miele.
# Program chart - Sport

<table>
<thead>
<tr>
<th>Sports shirts</th>
<th>104 °F / 40 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Polyester or polyamide with and without spandex</td>
<td></td>
</tr>
</tbody>
</table>
| **Program sequence** | + Pre-wash 86 °F / 30 °C, optional  
Main wash 103 °F /40 °C  
3 rinses  
Final spin |  |

<table>
<thead>
<tr>
<th>Track suits 103 °F / 40°C</th>
<th>104 °F / 40 °C</th>
<th></th>
</tr>
</thead>
</table>
| **Type of fabric** | Polyester, polyamide | 1:20  
PW 811 - 12 lb / 5.6 kg  
PW 814 - 15 lb / 7 kg  
PW 818 - 20 lb / 9 kg |
| **Program sequence** | Main wash 103 °F / 40 °C  
2 rinses  
Final spin |  |

<table>
<thead>
<tr>
<th>Track suits intensive</th>
<th>104 °F / 40 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Polyester, polyamide</td>
<td></td>
</tr>
</tbody>
</table>
| **Program sequence** | + Pre-wash 86 °F / 30 °C, optional  
Main wash 103 °F / 40 °C  
2 rinses  
Final spin |  |

<table>
<thead>
<tr>
<th>Shin pads</th>
<th>104 °F / 40 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Polyester, polyamide, polyethylene, polypropylene and ethylene vinyl</td>
<td></td>
</tr>
</tbody>
</table>
| **Program sequence** | Main wash 103 °F / 40°C  
2 rinses |  |
### Program chart

<table>
<thead>
<tr>
<th>Type of fabric</th>
<th>Program sequence</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outerwear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyamide and membrane items</td>
<td>+ Pre-wash 86 °F / 30°C, optional Main wash 103 °F / 40 °C 2 rinses Reproofing 103 °F / 40 °C Final spin</td>
<td>1:15 PW 811 - 16 lb / 7.4 kg PW 814 - 20 lb / 9.4 kg PW 818 - 26 lb / 12 kg</td>
</tr>
<tr>
<td>Reproof sportswear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyamide and membrane items</td>
<td>Rinse Reproofing 103 °F / 40 °C Final spin</td>
<td></td>
</tr>
<tr>
<td>Functional underwear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyester/spandex mix, polyamide/spandex mix or polypropylene</td>
<td>+ Pre-wash 86 °F / 30 °C, optional Main wash 103 °F / 40 °C 2 rinses Final spin</td>
<td>1:20 PW 811 - 12 lb / 5.6 kg PW 814 - 15 lb / 7 kg PW 818 - 20 lb / 9 kg</td>
</tr>
</tbody>
</table>
**Program chart - Sluice**

The sluice programs are for extremely heavily soiled personal clothing, as well as heavily soiled towels and bed linen. The disinfection is as specified in the requirements of the National Health Service (GB). There are two different disinfection options: 150 °F / 65 °C for 10 min or 160 °F / 71°C for 3 min.

<table>
<thead>
<tr>
<th>Sluice sensitive</th>
<th>150 °F / 65 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td>Heavily soiled personal clothing, toweling and bed linen</td>
<td></td>
</tr>
</tbody>
</table>
| **Program sequence** | 2 Pre-rinses  
Pre-wash 140 °F / 60 °C, 5 min.  
Disinfection 150 °F / 65 °C, 10 min.  
3 rinses  
Final rinse | 1:10  
PW 811 - 24 lb /11 kg  
PW 814 - 30 lb /14 kg  
PW 818 - 40 lb /18 kg |
| Sluice | 160 °F / 71 °C | |
| **Type of fabric** | Heavily soiled personal clothing, toweling and bed linen | |
| **Program sequence** | 2 Pre-rinses  
Pre-wash 140 °F / 60 °C, 5 min.  
Disinfection 160 °F / 71 °C, 3 min.  
3 rinses  
Final spin | |
## Sluice program sequence

### Sluice Sensitive 150 °F / 65 °C

<table>
<thead>
<tr>
<th>Program stage</th>
<th>Wash liquid ratio*</th>
<th>Thermostop</th>
<th>Temperature</th>
<th>Temperature holding time (wash time 2)</th>
<th>Programmed wash time, approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-rinse 1</td>
<td>1:7</td>
<td>No</td>
<td>cold</td>
<td>-</td>
<td>5 min.</td>
</tr>
<tr>
<td>Pre-rinse 2</td>
<td>1:7</td>
<td>No</td>
<td>cold</td>
<td>-</td>
<td>4 min.</td>
</tr>
<tr>
<td>Pre-wash</td>
<td>1:7</td>
<td>Yes</td>
<td>140 °F / 60 °C</td>
<td>5 min.</td>
<td>-</td>
</tr>
</tbody>
</table>

1 min spin at 500 rpm

Disinfection | 1:5 | Yes | 150 °F / 65 °C | 10 min. | - ** |

2 min spin at 800 rpm

Rinse 1 | 1:5 | No | cold | - | 5 min. |

1 min spin at 800 rpm

Rinse 2 | 1:5 | No | cold | - | 5 min. |

1 min spin at max. speed

Rinse 3 | 1:4 | No | cold | - | 5 min. |

5 min spin at max. speed

### Sluice 160 °F / 71 °C

<table>
<thead>
<tr>
<th>Program stage</th>
<th>Wash liquid ratio*</th>
<th>Thermostop</th>
<th>Temperature</th>
<th>Programmed wash time, approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-rinse 1</td>
<td>1:7</td>
<td>No</td>
<td>cold</td>
<td>5 min.</td>
</tr>
<tr>
<td>Pre-rinse 2</td>
<td>1:7</td>
<td>No</td>
<td>cold</td>
<td>4 min.</td>
</tr>
<tr>
<td>Pre-wash</td>
<td>1:7</td>
<td>Yes</td>
<td>140 °F / 60 °C</td>
<td>5 min.</td>
</tr>
</tbody>
</table>

1 min spin at 500 rpm

Disinfection | 1:5 | Yes | 160 °F / 71 °C | 3 min. | - ** |

2 min spin at 800 rpm

Rinse 1 | 1:5 | No | cold | - | 5 min. |

1 min spin at 800 rpm

Rinse 2 | 1:5 | No | cold | - | 5 min. |

1 min spin at max. speed

Rinse 3 | 1:4 | No | cold | - | 5 min. |

5 min spin at max. speed

* Depending on load and textile type

** Depending on heating type and, with hot water connection, the hot water temperature
# Program chart - Water recovery (WRG)

<table>
<thead>
<tr>
<th>Water recovery - cleaning 176 °F / 80 °C</th>
<th>Fill ratio/Load size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of fabric</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Program sequence</strong></td>
<td>Drain</td>
</tr>
<tr>
<td></td>
<td>Rinse</td>
</tr>
<tr>
<td></td>
<td>Drain</td>
</tr>
<tr>
<td></td>
<td>Wash</td>
</tr>
<tr>
<td></td>
<td>Drain</td>
</tr>
<tr>
<td></td>
<td>Rinse</td>
</tr>
<tr>
<td></td>
<td>Drain</td>
</tr>
</tbody>
</table>

| Water recovery - drainage               |                      |
| **Program sequence**                    | Drainage             |
Control panel

When the machine is switched on the welcome screen will appear briefly, followed by the first program or the last program started.

These buttons can be allocated specific functions depending on the status of the machine. These appear in the display above the buttons and are highlighted when selected. By reprogramming "Direct button allocation" the first 6 programs in the program list can be selected using buttons 1 - 6.

When this is pressed, the selected program will start. After a program has been started, the display content can be shown again by pressing this button.

Using PC software, data can be transmitted to and from the controls to a PC. The optical interface on the control panel provides the connection point.

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

When a card is inserted, the wash programs on the card can be used. Insert the card in the direction of the arrows.

For switching the machine on

For switching the machine off
Emergency-stop switch
The emergency-stop switch puts the machine into a safe state in the event of danger or in order to prevent danger. The emergency-stop switch must be positioned so that it is directly accessible in the event of an emergency. Caution, the machine is not disconnected from the power supply! Once the hazard has been cleared, turn the switch clockwise to release it. Press the "START" button again to resume the interrupted program.

Function buttons

Stop/Finish
When a program has started, the right-hand function button acts as a stop button. When it is pressed the selected program is stopped, pressing it again finishes the stopped program.

Block plus
The corresponding program block (e.g. Pre-wash) is added to the program.

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

Spin cycle

Without spin
Press this button if a final spin is not required after the final rinse.

Settings
Start time
If you press this button before starting the program, information about selecting a start time will appear on the display.

Information
When the program has started current program information can be displayed here.

Manual control
Skip
Back Return to previous display page.

Next / last line
Save
See Access to supervisor level

Delete (backwards)

Lower - upper case
Control panel

A→a Upper - lower case

Water intake

Dispensing

Dispensing switched off

Washing and heating

Drainage with drum rotation

Card

☑ Checked

Program locked
If a program is locked, after 1 minute it can no longer be stopped and canceled with the finish button.

☑ Program unlocked

☒ Data transfer
### Overview of function levels

<table>
<thead>
<tr>
<th><strong>Operator</strong></th>
<th><strong>Supervisor</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Access with Power On</td>
<td>Access to Supervisor level using &quot;Settings&quot; function button and password or with card entry.</td>
</tr>
<tr>
<td>Program start for all programs</td>
<td>Menu options in main menu</td>
</tr>
<tr>
<td>Program start for special programs (Approved function)</td>
<td>Language</td>
</tr>
<tr>
<td></td>
<td>Choice of operator language for the duration of a program</td>
</tr>
<tr>
<td></td>
<td>Time/Date</td>
</tr>
<tr>
<td></td>
<td>Set time and date</td>
</tr>
<tr>
<td>Program start with card only (laundry load operation)</td>
<td>Programming</td>
</tr>
<tr>
<td></td>
<td>Create new program, copy, delete, change</td>
</tr>
<tr>
<td>Program start only after insertion of coins or with pre-paid card</td>
<td>Settings (basic)</td>
</tr>
<tr>
<td></td>
<td>Memory function</td>
</tr>
<tr>
<td></td>
<td>Basic program locking</td>
</tr>
<tr>
<td></td>
<td>Buzzer</td>
</tr>
<tr>
<td></td>
<td>Unit temperature</td>
</tr>
<tr>
<td></td>
<td>Unit seconds</td>
</tr>
<tr>
<td></td>
<td>Unit minute</td>
</tr>
<tr>
<td></td>
<td>Unit hours</td>
</tr>
<tr>
<td></td>
<td>Unit length</td>
</tr>
<tr>
<td></td>
<td>Unit mass</td>
</tr>
<tr>
<td></td>
<td>Unit volume</td>
</tr>
<tr>
<td></td>
<td>Unit pressure</td>
</tr>
<tr>
<td></td>
<td>Unit revolutions</td>
</tr>
<tr>
<td></td>
<td>Max. temperature</td>
</tr>
<tr>
<td></td>
<td>Max. spin speed</td>
</tr>
<tr>
<td></td>
<td>Display - Display Stand by - contrast setting</td>
</tr>
<tr>
<td></td>
<td>Button allocation - Time of day - Date display</td>
</tr>
<tr>
<td></td>
<td>Dispensing calibration</td>
</tr>
<tr>
<td></td>
<td>Delivery rate dispensing (D1 to D13)</td>
</tr>
<tr>
<td></td>
<td>Correction factor dispensing (D1 to D13)</td>
</tr>
<tr>
<td></td>
<td>Dispenser empty (D1 to 13)</td>
</tr>
<tr>
<td></td>
<td>Password use</td>
</tr>
<tr>
<td></td>
<td>Medium water pressure - Heater output</td>
</tr>
<tr>
<td></td>
<td>Customer data:</td>
</tr>
<tr>
<td></td>
<td>- Branch - Surname - First name</td>
</tr>
<tr>
<td></td>
<td>- Street - House number - Town - Zip code - Telephone</td>
</tr>
<tr>
<td></td>
<td>- System address - Set-up date</td>
</tr>
<tr>
<td></td>
<td>Currency</td>
</tr>
<tr>
<td>Change password</td>
<td>Laundry loads</td>
</tr>
<tr>
<td></td>
<td>Machine operation only possible for laundry load operation</td>
</tr>
<tr>
<td>Cards</td>
<td>Manual control</td>
</tr>
<tr>
<td>Key card, supervisor card</td>
<td></td>
</tr>
</tbody>
</table>
Access to Supervisor level / changing the password

Password

The supervisor level is accessed by entering a four-digit password from the character set provided. Selection can only be made at the start or end of the program.

- Press the function button

The following will appear in the display:

![Settings, Back, Main menu, Language, Supervisor level]

When "Supervisor level" is selected and the multifunction selector is pressed, the password entry screen will appear.

When accessing Supervisor level for the first time, the password "M1LE" must be entered.

- Select letter or number.

When the multifunction selector is operated, the character selected will appear in the corresponding position.

If no function is carried out within 30 seconds, if the button is pressed, or if an incorrect password is entered, the same display content will be shown as after a power interruption.

Retrieving data for the last password entry and last incorrect password entry

- Press the "Info" button.

The date of the last password entry and the last incorrect password entry will appear.

Password information

<table>
<thead>
<tr>
<th>Last entry:</th>
<th>11:18</th>
<th>21.5.2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last incorrect entry:</td>
<td>11:15</td>
<td>11.5.2015</td>
</tr>
</tbody>
</table>

With this function it is possible to check whether other people know the password and have used it.

- Press the "Back" button.

If no other button is pressed the screen will automatically revert to the previous one after 30 seconds.
Access to Supervisor level / changing the password

The display is reset.

- Press the "Save" button when all four characters have been entered.

If the password entry is correct you are now in the Supervisor level.

<table>
<thead>
<tr>
<th>Supervisor level</th>
<th>Main menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language:</td>
<td>English (USA)</td>
</tr>
<tr>
<td>Time/Date:</td>
<td>12:43 12.5.2015</td>
</tr>
</tbody>
</table>

Change password

The password can be changed via this menu option.

- Select Supervisor level / Main menu

<table>
<thead>
<tr>
<th>Supervisor level</th>
<th>Main menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change password</td>
<td></td>
</tr>
<tr>
<td>Card operation:</td>
<td>No</td>
</tr>
</tbody>
</table>

- Select "Change password and confirm by pressing the multifunction selector.

After selection pressing the multifunction selector, the following appears in the display:

**Password:** M1LE

0123456789

- Select letter or number.

When the multifunction selector is operated, the character selected will appear in the corresponding position.

- Enter the new password and press the "Save" button.

When the password is entered and "Save" is pressed, the security question will appear.

**Overwrite existing data?**

- Press the "Save" button.
Main menu options:

- Language
- Time/Date
- Dispensing
- Approved mode
- Programming
- Settings
- Change password
- Laundry load

Language option

Select local language

- Select the language menu option.

When the country language is set the display immediately changes to this language to ensure that the display is instantly legible for all users. The display then reverts to the main menu.

Options:
- German - English (GB) - English (USA) - Espanol - Français - Italiano - Nederlands - Norsk - Portugues - Greek - Russian

If after 30 seconds in Supervisor level "Language" the start button has not been pressed or the multifunction selector operated, the display will revert to the main menu.
Time of day, Date option

The current date and time are selected in this menu option.

In the event of a power cut these are retained for approx. 6 weeks, after which time they will need to be reset.

Select the Time of day, Date menu option:

After selection, the following appears in the display:

Press the "Save" button.

The setting is adopted once the "Save" button has been pressed and the display has returned to the main menu.

If after 30 seconds in Supervisor level "Time / Date" the "Save" button has not been pressed, or the multifunction selector operated, the display will revert to the main menu.
Dispensing option

In this menu option specific dispensing data can be changed. Miele programs are saved under the same M-No. after dispensing data has been changed. Basic program locking is not activated in this case.

<table>
<thead>
<tr>
<th>Supervisor level ➤ Main menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispensing</td>
</tr>
<tr>
<td>Access mode : On</td>
</tr>
</tbody>
</table>

- Select "Dispensing".

After selection, the following appears in the display:

<table>
<thead>
<tr>
<th>Supervisor level ➤ Dispensing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Cottons Hygiene 194°F</td>
</tr>
<tr>
<td>2 Cottons Universal 140°F</td>
</tr>
</tbody>
</table>

- Select the appropriate program.

When the appropriate program is selected, only the dispensing data parameters will appear.

<table>
<thead>
<tr>
<th>Dispensing ➤ 1 Cottons Hygiene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area 1 : Pre-wash</td>
</tr>
<tr>
<td>Block 1: Pre-wash</td>
</tr>
</tbody>
</table>

- Select the desired area and block.

Options will appear:
- No
- Qty. in ml
- Concentration ml/l
- Concentration ml/kg

In "Dispensing method: No" setting, dispensing phases 1 and 2 are locked.
In "Amount and concentration" setting, in dispensing phases 1 and 2 either "No" or "User defined" can be selected.

Options:
- Dispensing 1 to 6

Dispenser pump:
- No
- D1 to D13

Dispensing amount: 0 to 9999 depending on dispensing method - - -
- ml
- ml/l
- ml/kg

Dispensing delay
- No
- 0 to 999 s

Press the "Save" button to save dispensing data, or press the button to return to the program list without saving.

Returning to program list with or without saving altered dispensing data.

Tip: If the correction factor is changed, it must be corrected as necessary.
Approved mode option

In this operating state only approved programs

Options:
- Off
- On

<table>
<thead>
<tr>
<th></th>
<th>Cottons Hygiene</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>194</td>
</tr>
<tr>
<td>2</td>
<td>Cottons Universal</td>
<td>140</td>
</tr>
<tr>
<td>3</td>
<td>Program locked</td>
<td></td>
</tr>
</tbody>
</table>

If programs are not approved in the program header the message "Program locked" appears beside the program number.
A program consists of a **Program header**, an area **Pre-wash**, an area **Main wash** and an area **Rinse**. The areas can individually or collectively form a program, however areas cannot be duplicated. The areas themselves are divided into individual blocks.

General program structures, which apply to the whole program are configured in the program header. See menu option "Create new".

The blocks are identical for each individual area and all have the same basic parameter settings.

The easiest way to create a new program is to copy blocks or areas of an existing program or a whole program, and then to change it.
<table>
<thead>
<tr>
<th>Block name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Block activation</td>
</tr>
<tr>
<td>2. Program stop 1</td>
</tr>
<tr>
<td>3. Program stop signal 1</td>
</tr>
<tr>
<td>4. Heating</td>
</tr>
<tr>
<td>5. Free temperature selection</td>
</tr>
<tr>
<td>6. Temperature</td>
</tr>
<tr>
<td>7. Hysteresis</td>
</tr>
<tr>
<td>8. Warm Up</td>
</tr>
<tr>
<td>9. Level 1</td>
</tr>
<tr>
<td>10. Intake path 1</td>
</tr>
<tr>
<td>11. Dispensing type</td>
</tr>
<tr>
<td>12. Dispensing phase 1</td>
</tr>
<tr>
<td>13. Dispensing stop 1</td>
</tr>
<tr>
<td>14. Agitation from level</td>
</tr>
<tr>
<td>15. Level stop 1</td>
</tr>
<tr>
<td>16. Wash time 1</td>
</tr>
<tr>
<td>17. Thermostop</td>
</tr>
<tr>
<td>18. Level 2</td>
</tr>
<tr>
<td>19. Intake path 2</td>
</tr>
<tr>
<td>20. Dispensing phase 2</td>
</tr>
<tr>
<td>21. Dispensing stop 2</td>
</tr>
<tr>
<td>22. Level stop 2</td>
</tr>
<tr>
<td>23. Wash time 2</td>
</tr>
<tr>
<td>24. Cool Down</td>
</tr>
<tr>
<td>25. Wash time 3</td>
</tr>
<tr>
<td>26. Program stop 2</td>
</tr>
<tr>
<td>27. Program stop signal 2</td>
</tr>
<tr>
<td>28. Drainage path 1</td>
</tr>
<tr>
<td>29. Drainage level</td>
</tr>
<tr>
<td>30. Wash time 4</td>
</tr>
<tr>
<td>31. Drainage path 2</td>
</tr>
<tr>
<td>32. Free spin speed selection</td>
</tr>
<tr>
<td>33. Spin</td>
</tr>
<tr>
<td>34. Repeat</td>
</tr>
<tr>
<td>35. Block end signal</td>
</tr>
</tbody>
</table>
Copy menu option

Available program packets, programs, areas and blocks can be copied using this menu option.

When the multifunction selector is operated the following appears in the display:

Copy program

With this menu option all programs, a program packet (e.g. Program 1 to 10) or an individual program can be copied. Existing programs will however be overwritten, following additional confirmation. When it is selected the following will appear in the display:

After selecting the program and pressing the multifunction selector this is marked with a ✓.

The tick is deleted following a further confirmation with the multifunction selector.

Press the "Save" button to complete the marking process.

If all programs are to be copied, press the 1-999 button to mark these.

Tip: Depending on the number of programs to be copied, the lowest target program number is selected, from which the following programs can be saved.
Enter the target program number and copy it using the "Save" button.

If you wish to copy to a target program place that is already occupied by another program, the security question will appear.

If the storage space available is insufficient to accept the selected program, the following message will appear in the display:

"Insufficient storage space" will flash in the display.

Press the "Save" button to overwrite.

The overwriting process is carried out and the screen returns to the "Copying" sub-menu.

**Tip:** When is pressed, or if after 30 seconds no button has been pressed, copying is not carried out and the display reverts to the main menu.

**Copy area**

With this option you can copy an area from one existing program into another program. This can add an area to the target program that it did not previously have, or overwrite the existing area.

Select the area to be copied.

When this is selected, the display will show the following:

Press the multifunction selector, select the source program number and confirm your selection.

Go to Source area and confirm.

Select the source are Pre-wash, Main wash or Rinse and confirm.
Go to Target program and confirm.

Select the target program number and confirm.

Go to Target area and confirm.

Select the target area Pre-wash, Main wash or Rinse and confirm.

If the target area is not available (no name defined yet) the area number and the standard area name appear (target area: Pre-wash, Main wash, Rinse).

Enter and activate by pressing "Save" button.

Copying will be carried out.

**Tip:** If copying to a target program place that is already occupied by an area, the security question will appear.

Press the "Save" button to overwrite.

The overwriting process is carried out and the screen returns to the "Copying" sub-menu.

**Tip:** When the button is pressed, or if after 30 seconds no button has been pressed, copying is not carried out and the display returns to the "Copying" sub-menu.

**Copy block**

With this menu option a block can be copied out of one existing program into another program or within a program. A new block is added into the target program.

If there are already 10 blocks in a program, the 10th block will drop out. If a block is not copied into an existing target area, the new target area is automatically allocated the relevant name.

Select the block to be copied.

When this is selected, the display will show the following:

Press the multifunction selector, select the source program number and confirm your selection.
Go to Source area and confirm your choice.

Select the source area Pre-wash, Main wash or Rinse and confirm your selection.

Go to Source block and confirm your selection.

Select the source block and confirm your selection.

Go to Target program number and confirm your choice.

Select the target program number and confirm your selection.

Go to Target area and confirm your selection.

Select the target area Pre-wash, Main wash or Rinse and confirm your selection.

The first free block will appear as the target block.

Go to Target block and confirm your selection.

Select the target block and confirm your selection.

Press the "Save" button.

Copying will be carried out.

If the 10th block will be overwritten by copying, the security question will appear.

Press the "Save" button.

The overwriting process is carried out and the screen reverts to the "Copying" sub-menu.

Tip: When the button is pressed, or if after 30 seconds no button has been pressed, copying is not carried out and the display returns to the "Copying" sub-menu.

Delete menu option

With this menu option a program packet, a program, an area or a block can be deleted. When the multifunction selector is operated, only program numbers of available programs appear in the entry field for program number.
Select Programming Delete

When this is selected, the display will show the following:

<table>
<thead>
<tr>
<th>Programming</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program</td>
<td></td>
</tr>
<tr>
<td>Area</td>
<td></td>
</tr>
</tbody>
</table>

Delete program

All programs, a program packet or an individual program can be deleted with this menu option.

Select "Delete program".

After selection, the following appears in the display:

<table>
<thead>
<tr>
<th>Delete</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cottons Hygiene 194°F</td>
</tr>
<tr>
<td>2</td>
<td>Cottons Universal 140°F</td>
</tr>
</tbody>
</table>

"Locked" indicates basic program locking. The program cannot be deleted.

Select the desired program.

Press the multifunction selector to mark the program.

Press again to remove the marking.

Tip: If all programs are to be deleted, press the "1-999" function button. Any programs with basic program locking will not be deleted.

When "Save" is pressed, the security question appears.
Press the "Save" button. The overwriting process is carried out and the screen returns to the main menu.

Tip: When the button is pressed, or if after 30 seconds no button has been pressed, deletion is not carried out and the display returns to the sub-menu.

If there are no programs that can be deleted the following message appears in the display:

Delete area With this option an area of a program can be deleted.

Select Delete area.

When this is selected, the display will show the following:

Press the multifunction selector. When the multifunction selector is pressed the following appears in the display:

Select the program number and confirm your selection.

Go to Area and confirm your selection.
Select the area Pre-wash, Main wash or Rinse and confirm your selection.

Press the "Save" button.

The security question will appear.

Press the "Save" button.

Deletion will be carried out and the screen will return to the sub-menu.

**Tip:** When the button is pressed, or if after 30 seconds no button has been pressed, deletion is not carried out and the display returns to the sub-menu.

**Delete block**

With this menu option a block in an area of a program can be deleted.

Select Delete block.

When this is selected, the display will show the following:

Select the program number and confirm your selection.

Go to Area and confirm your selection.

Select the area Pre-wash, Main wash or Rinse and confirm your selection.

Go to Block and confirm your selection.
Select the block and confirm your selection.

Press the "Save" button.

The security question will appear.

Press the "Save" button.

Deletion will be carried out and the screen will return to the sub-menu.

Tip: When the button is pressed, or if after 30 seconds no button has been pressed, deletion is not carried out and the display returns to the sub-menu.

**Change menu option**

With this option an existing program can be changed and saved under the same program number. If this is a Miele program, the existing Material number will be deleted from the program header if the change is saved.

Select Programming Change

When this is selected, the display will show the following:

Tip: "Locked" indicates that the program is locked. The program cannot be changed.

Select the program you want to change and confirm.

The following will appear in the display:

Tip: Options for changes in the program header are given in Menu option "Create new", Program header.
Press the "Save" button.

The parameters that are already set will be saved.

**Tip:** When the button is pressed, or if after 30 seconds no button has been pressed, the changes are not carried out and the display returns to the sub-menu.

Select the area here.

Select the block here.

Select block parameters.

Individual program stages can be accessed by selecting Block parameters.

Options for changes to individual program stages are given in Menu option "Create new", Block programming.

Create new menu option

With this menu option a new program can be created. Individual areas, blocks and program stages are configured.

Press the "Save" button to save the program header parameters that are already configured.

The screen will jump to the selection for the area, block or block programming:
# Programming

## Program header

When this is selected, the display will show the following:

<table>
<thead>
<tr>
<th>Create</th>
<th>Program header</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program header</td>
<td></td>
</tr>
</tbody>
</table>

| Area - | |

## Program number

When this is selected, the display will show the following:

<table>
<thead>
<tr>
<th>Create</th>
<th>Program header</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program number : 11</td>
<td></td>
</tr>
</tbody>
</table>

| Program name : | |

- Use the multifunction selector to select a free program number.

When creating a new program the lowest program number will appear automatically in the "Program number" input field.

Any free program number can be selected, from the lowest number not yet given up to number 999.
Program name

- Select the Program name menu option.

When this is selected, the display will show the following:

- Jump to the "Progr. Name" input field.
- Select a character and press the multifunction selector.

The selected character will appear in the "name" field.

Material number

Selecting the Material number input field.

- Turn the multifunction selector to the right.

Material number can only be read and not changed. For programs newly created by the Supervisor xxxxxxxxx will appear here.

Area 1 - 2 - 3

Select input field Area 1

- Turn the multifunction selector to the right.

You have the following options:

- No
- 1 block to 10 blocks

If a block number is configured, then an area name must also be entered. This can be given under "Name Area 1" First suggestion for Area 1 "Pre-wash", for Area 2 "Main wash" and for Area 3 "Rinse". See "Program structure for more information."
**Programming**

<table>
<thead>
<tr>
<th>Create</th>
<th>Program header</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area 1 :</td>
<td>Block</td>
</tr>
<tr>
<td>Area 2 :</td>
<td>No</td>
</tr>
</tbody>
</table>

**Tip:** Selection and input of Name Area 1 is the same as for program names. Input for Areas 2 and 3 is identical to Area 1.

### Weighing

Configuration of the way in which the laundry load weight should be established.

- Use the multifunction selector to select "Weigh" and press to confirm the selection.

<table>
<thead>
<tr>
<th>Create</th>
<th>Program header</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weighing :</td>
<td>No</td>
</tr>
<tr>
<td>Max. load :</td>
<td>11.0 kg</td>
</tr>
</tbody>
</table>

You have the following options:

- **No**
  
The controls assume that nominal load is always assured. Manual weight input before start of program is not possible.

- **Manual**
  
  Laundry weight can be entered by hand before the program start.

- **Automatic**
  
  Laundry weight is measured automatically in the machine.

### Nominal load

A laundry weight can be allocated to a program with this option.

- Turn the multifunction selector to "Nominal load" and press to confirm the selection.

Maximum nominal load value is dependent on the model and is as follows:

- for PW 811 - 24 lb / 11 kg
- for PW 814 - 30 lb / 14 kg
- for PW 818 - 40 lb / 18 kg

You have the following options:

- **From 0.0 lb / kg, in 1/2 lb / 0.2 kg - increments to maximum nominal load.**

- **Set a laundry weight.**
Minimum water level
When Minimum water level is selected all blocks without heating are allocated the minimum water level.

This value configures the lowest selectable level value. The maximum value is 12” / 300 mm.

Select the menu option "Minimum water level".
You have the following options:
- From 0 mm in 2 mm increments up to a maximum of 12” / 300 mm.
- Enter the minimum water level.

Fill type
With the Fill type option the type and method of water intake can be specified for the program.

If the Fill type is changed in the program header when the program is created, the basic settings for the levels are saved again in the blocks.

You have the following options:
- Automatic load control mm
  In programs which are started with Automatic load control, the laundry load influences water levels, dispensing and the number of rinse cycles.
- Water level mm.
  When Water level mm or Automatic load control are selected, the option "Concentration m/l" is locked in the Dispensing menu option and the Block programming.
- Water quantity [L]
- Load-to-liquid ratio kg/l

Tip: The load-to-liquid ration to be programmed depends on load ratio, load composition and absorption of the laundry. The following table provides guidance:
Programming

<table>
<thead>
<tr>
<th>Programs with recommended load ratio (lb:gal/kg:l drum volume)</th>
<th>Absorption of laundry (Example)</th>
<th>Max. Wash-to-liquid ratio (lb:gal/kg:l liquid)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2:5/1:20</td>
<td>Low (PES/BW mixed fibres)</td>
<td>2.2:2/1:8 to 2.2:2.5/1:10</td>
</tr>
<tr>
<td>2.2:2.5/1:10*</td>
<td>Medium (Cotton flat woven)</td>
<td>2.2:1.3/1:5 to 2.2:1.6/1:6</td>
</tr>
<tr>
<td>2.2:2.5/1:10*</td>
<td>High (Cotton toweling)</td>
<td>2.2:1.3/1:5 to 2.2:1.8/1:7</td>
</tr>
</tbody>
</table>

* e.g. Chemo-thermal disinfection program

**Approve**

When the Approve option is selected the program is allocated program approval.

A program which is not approved cannot be started "Approval" status.

- Select the "Approve" menu option.

You have the following options:
- No
- Yes

**Lock**

When the lock option is selected a program is allocated program locking.

If a program is started, after one minute it can no longer be stopped or cancelled with the finish button.

The door can only be opened at the end of the program.

- Select the "Lock" menu option.

You have the following options:
- No
- Yes

**Peak-load**

When Peak load is selected the program is allocated a peak load function.
If the input peak load signal is present and the program is in a heating phase, the heating is turned off and the program is stopped. "Program stopped by peak load function" appears in the display.

If the program is in Thermostop, the safety interval of the Thermostop is maintained.

**Hot water control**

When "Hot water control" is selected you have the choice between automatic water valve guide and control of pre-selected water valves.

If "Yes" is selected for Hot water control, the water intake valves are "automatically" activated in such a way that the target temperature for the wash cycle is already reached from the first intake of water by alternately activating cold or hot water valves.

If automatic valve control is not selected the pre-selected water valves are activated in conjunction with Hot water control "Yes" without regard to the target temperature.

**Price**

If the Price option is selected a price can be allocated to a program.

The price set must be paid before the program can be started.

- Select the "peak load" program function.
- Yes
- No

- Select the "Price" program option.
- No
If "No" is set, a price message will not appear.

- 0.10 to 9999.90 in 0.10 increments

- Press the "Save" button.

This concludes the programming of the program header and you now enter block programming.

**Block programming**

**Entering Block programming**

After completing the programming of the program header, press the "Save" button to enter Block programming.

Select the area of block programming:

- Area 1: Pre-wash
- Area 2: Main wash
- Area 3: Rinse

Select Block 1 to 10 from the selected area.

Select block parameters.

When Block parameter is selected you enter the individual program stages of the selected block.

**Basic parameter settings**

In Block programming the individual stages are configured in the blocks. As the blocks are identical for each individual area, they all possess the same basic parameter setting.
<table>
<thead>
<tr>
<th>Stage</th>
<th>Basic setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block name</td>
<td>20 blank spaces</td>
</tr>
<tr>
<td>1. Block activation</td>
<td>No</td>
</tr>
<tr>
<td>2. Program stop 1</td>
<td>No</td>
</tr>
<tr>
<td>3. Program stop signal 1</td>
<td>No</td>
</tr>
<tr>
<td>4. Heating</td>
<td>No</td>
</tr>
<tr>
<td>5. Free temperature selection</td>
<td>No</td>
</tr>
<tr>
<td>6. Temperature</td>
<td>cold</td>
</tr>
<tr>
<td>7. Hysteresis</td>
<td>Normal</td>
</tr>
<tr>
<td>8. Warm Up</td>
<td>*</td>
</tr>
<tr>
<td>9. Level 1</td>
<td>0 mm / 0 l / 1:0 kg/l</td>
</tr>
<tr>
<td>10. Intake path 1</td>
<td>Automatic</td>
</tr>
<tr>
<td>11. Dispensing type</td>
<td>No</td>
</tr>
<tr>
<td>12. Dispensing phase 1</td>
<td>*</td>
</tr>
<tr>
<td>13. Dispensing stop 1</td>
<td>*</td>
</tr>
<tr>
<td>14. Agitation from level</td>
<td>Automatic</td>
</tr>
<tr>
<td>15. Level stop 1</td>
<td>No</td>
</tr>
<tr>
<td>16. Wash time 1</td>
<td>No</td>
</tr>
<tr>
<td>17. Thermostop</td>
<td>*</td>
</tr>
<tr>
<td>18. Level 2</td>
<td>0 mm</td>
</tr>
<tr>
<td>19. Intake path 2</td>
<td>Automatic</td>
</tr>
<tr>
<td>20. Dispensing phase 2</td>
<td>*</td>
</tr>
<tr>
<td>21. Dispensing stop 2</td>
<td>*</td>
</tr>
<tr>
<td>22. Level stop 2</td>
<td>No</td>
</tr>
<tr>
<td>23. Wash time 2</td>
<td>No</td>
</tr>
<tr>
<td>24. Cool Down</td>
<td>No</td>
</tr>
<tr>
<td>25. Wash time 3</td>
<td>No</td>
</tr>
<tr>
<td>26. Program stop 2</td>
<td>No</td>
</tr>
<tr>
<td>27. Program stop signal 2</td>
<td>No</td>
</tr>
<tr>
<td>28. Drainage path 1</td>
<td>No</td>
</tr>
<tr>
<td>29. Drainage level</td>
<td>0 mm</td>
</tr>
<tr>
<td>30. Wash time 4</td>
<td>No</td>
</tr>
<tr>
<td>31. Drainage path 2</td>
<td>Drain</td>
</tr>
<tr>
<td>32. Free spin speed selection</td>
<td>No</td>
</tr>
<tr>
<td>33. Spin</td>
<td>No</td>
</tr>
<tr>
<td>34. Repeat</td>
<td>No</td>
</tr>
<tr>
<td>35. Block end signal</td>
<td>No</td>
</tr>
</tbody>
</table>

* "Locked" appears if "No" is programmed for Dispensing type in the relevant program in the Dispensing menu option.
### Programming

#### Block name

Entering block name

<table>
<thead>
<tr>
<th>Block programming</th>
<th>Block parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block name</td>
<td></td>
</tr>
<tr>
<td>1. Block activation: No</td>
<td></td>
</tr>
</tbody>
</table>

- Enter the block name.

#### 1. Block activation

Block activation can be determined at the start of all block programming.

- Select from the following options in the display under Block activation:
  - No
  Program block not carried out
  - Permanent
  The program block is a permanent component of the program structure and is always carried out.
  - Block+
  The program block is only carried out when the +[][] "Block+"] button has been pressed.

#### 2. Program stop 1

Used to stop a current program.

- Choose from the following options:
  - No
  No program stop occurs.
  - Permanent
  A program stop always occurs at the point programmed.
  - Starch stop
  - Spin stop
  When "Starch stop" or "Spin stop" are selected, a program stop only occurs at the point programmed if the relevant button is pressed at that time.
    - Spin and Starch stop
    When "Starch stop" or "Spin stop" are selected, a program stop only occurs at the point programmed if both the "Starch stop" and the "Spin stop" buttons are pressed at that time.

#### 3. Program stop signal 1.

Used to set a "Program stop" output (for signal transmitter) for a program stop.

- Choose from the following options:
  - No
  The output "Program stop" is not activated for a program stop.
4. Heating

The output “Program stop” is activated for a program stop.

Tip: This function can be used e.g. for warm rinses.

Choose from the following options:

- Yes
  The heating is activated normally in the heating regulation circuit to reach the required temperature.

- No
  The heating is not switched on. The selected temperature should be achieved exclusively via the water valve control. With the Thermostop setting only "No" is possible. The field in the display for the target temperature remains empty before and after the program start.

5. Free temperature selection

Used to make changes to temperature before program start.

Choose from the following options:

- No
  Always heated to the temperature set in the block programming.

- Yes
  The temperature of the 1st main wash set before program start is carried over to all programed blocks, but only if "Yes" is programmed in those blocks in the "Free temperature selection" programm stage and if the temperature programmed in the block is not lower.

6. Temperature

Used to program a temperature.

Choose from the following options:

- cold
  The heating is not activated.

- 59 to 2013 °F / 15 to 95 °C
  With increments of 2 °F / 1 °C temperature values are freely programmable.

7. Hysteresis

Temperature difference between heating switch-on-and switch-off points.

Choose from the following options:

- Normal (Off 32 °F / 0 °C, On 21 °F / -6 °C)
- Low (Off 37 °F / +3 °C, On 32 °F / 0 °C)
- User defined
  37 °F to 14 °F / +3 °C to –10 °C in 2 °F / 1 °C increments

8. Warm Up

Heating up speed, how rapidly the water should heat up.
Warm Up is locked if "No" is programmed in program stage 4. Heating.

- Choose from the following options:
  - No
  - 2 °F (1 °C) /min to 20 °F (10 °C) /min

Heating is permanently activated as required.

9. Level 1

In the program header you can choose between Automatic load control, water level, water quantity and load/liquid ratio for the Fill type. Level 1 can be set if Automatic load control or Water level are set.

- Choose from the following options:
  - Amount of water
    Setting in 1 pt / 0.5 l increments from 0 to 999.
  - Water level
    Setting in 2 mm increments from 0 mm 14" /350 mm.
  - Load/liquid ratio
    Setting in 0.5 kg/increments from 1:0.0 kg/l to 1:20 kg/l.

10. Intake path 1

Control of water intake valves

- Choose from the following options:
  - Automatic

With the "automatic" setting the water intake valves are activated such that the target temperature for the wash cycle is already reached from the first intake of water by alternately activating cold or hot water valves.
The assignment of valves to detergent dispensers is as follows:

<table>
<thead>
<tr>
<th>Compartment</th>
<th>Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-wash compartments</td>
<td>K1, W1</td>
</tr>
<tr>
<td>Main wash compartments</td>
<td>K2, W2</td>
</tr>
<tr>
<td>Fabric softener compartments</td>
<td>K3</td>
</tr>
<tr>
<td>Special application compartments</td>
<td>K4</td>
</tr>
<tr>
<td>Direct water intake</td>
<td>KD, WD</td>
</tr>
<tr>
<td>WR inlet valve</td>
<td>K6</td>
</tr>
</tbody>
</table>

The following valves are activated depending on program blocks:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-wash 1</td>
<td>KD, K1</td>
<td>WD, W1, KD, K1</td>
<td>WD, W1, KD, K1</td>
</tr>
<tr>
<td>Pre-wash 2-10</td>
<td>KD, K1</td>
<td>WD, KD, K1</td>
<td>WD, W1</td>
</tr>
<tr>
<td>Main wash 1</td>
<td>KD, K2</td>
<td>WD, W2, KD, K2</td>
<td>WD, W2, KD, K2</td>
</tr>
<tr>
<td>Main wash 1-10 (with pre-wash)</td>
<td>KD, K2</td>
<td>KD, WD, W2, K2</td>
<td>WD, W2</td>
</tr>
<tr>
<td>Rinse 1</td>
<td>KD, K3</td>
<td>KD, WD, K3</td>
<td>WD, K3</td>
</tr>
<tr>
<td>Rinse 1</td>
<td>KD, K4</td>
<td>KD, WD, K4</td>
<td>WD, K4</td>
</tr>
<tr>
<td>Rinse 2</td>
<td>KD, K3</td>
<td>KD, WD, K3</td>
<td>WD, K3</td>
</tr>
<tr>
<td>Rinse 1</td>
<td>KD</td>
<td>KD, WD</td>
<td>WD</td>
</tr>
<tr>
<td>Rinse 2</td>
<td>KD, K4</td>
<td>KD, WD, K4</td>
<td>WD, K4</td>
</tr>
<tr>
<td>Rinse 3</td>
<td>KD, K3</td>
<td>KD, WD, K3</td>
<td>WD, K3</td>
</tr>
<tr>
<td>Rinse 1</td>
<td>KD</td>
<td>KD, WD</td>
<td>WD</td>
</tr>
<tr>
<td>Rinse 2</td>
<td>KD, K4</td>
<td>KD, WD, K4</td>
<td>WD, K4</td>
</tr>
<tr>
<td>Rinse 3-9</td>
<td>KD</td>
<td>KD, WD</td>
<td>WD</td>
</tr>
<tr>
<td>Rinse 10</td>
<td>KD, K3</td>
<td>KD, WD, K3</td>
<td>WD, K3</td>
</tr>
</tbody>
</table>

- User-defined
- No
- 4 of 10 different water valves

11. Dispensing type

Determines how the detergent is dispensed into the machine.

- Choose from the following options:
  - No
  - Amount ml (milliliter)
  - Concentration m/l (ML per liter)
  - Concentration ml/kg (Milliliter per wash load in kg)

Does not appear if Fill type is programmed to “Water height” or “Auto load adjustment” in program header.
### Programming

<table>
<thead>
<tr>
<th>12. Dispensing phase 1</th>
<th>Determines the dispensing concentration for max. 6 dispenser pumps.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>■ Choose from the following options:</td>
</tr>
<tr>
<td></td>
<td>□ No</td>
</tr>
<tr>
<td></td>
<td>Detergent is not dispensed.</td>
</tr>
<tr>
<td></td>
<td>□ User-defined</td>
</tr>
<tr>
<td></td>
<td>□ Dispenser pump</td>
</tr>
<tr>
<td></td>
<td>1 dispenser pump per dispensation selectable from D1 to D 13</td>
</tr>
<tr>
<td></td>
<td>□ Dispensing amount (depending on dispensing type)</td>
</tr>
<tr>
<td></td>
<td>0 to 9999 ml or</td>
</tr>
<tr>
<td></td>
<td>0 to 999 ml/l or</td>
</tr>
<tr>
<td></td>
<td>0 to 999 ml/kg</td>
</tr>
<tr>
<td></td>
<td>□ Dispensing delay</td>
</tr>
<tr>
<td></td>
<td>0 to 999 sec.</td>
</tr>
<tr>
<td></td>
<td>□ Dispensing type &quot;No&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13. Dispensing stop 1</th>
<th>Dispensing process control</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>■ Choose from the following options:</td>
</tr>
<tr>
<td></td>
<td>□ No</td>
</tr>
<tr>
<td></td>
<td>The dispensing process runs simultaneously with subsequent pro-</td>
</tr>
<tr>
<td></td>
<td>grams. As a result dispensing is canceled at the end of the sub-</td>
</tr>
<tr>
<td></td>
<td>quent wash time 1.</td>
</tr>
<tr>
<td></td>
<td>□ Yes</td>
</tr>
<tr>
<td></td>
<td>Long dispensing phases are not cancelled. The subsequent Wash</td>
</tr>
<tr>
<td></td>
<td>time 1 does not start until the dispensing process is finished.</td>
</tr>
<tr>
<td></td>
<td>□ Dispensing type &quot;No&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14. Agitation from level</th>
<th>Drum agitation for the first water intake in the program block.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>■ Choose from the following options:</td>
</tr>
<tr>
<td></td>
<td>□ Automatic</td>
</tr>
<tr>
<td></td>
<td>□ User-defined</td>
</tr>
<tr>
<td></td>
<td>□ Automatic</td>
</tr>
<tr>
<td></td>
<td>□ User-defined</td>
</tr>
<tr>
<td></td>
<td>Duration: 0. 15 to 59 Sec.</td>
</tr>
<tr>
<td></td>
<td>0 to 99 min.</td>
</tr>
<tr>
<td></td>
<td>Rhythm</td>
</tr>
<tr>
<td></td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Normal 12/3 Sec. Wash / Pause</td>
</tr>
<tr>
<td></td>
<td>Delicate 5/10 Sec. Wash / Pause</td>
</tr>
</tbody>
</table>
Programming

Gentle 3/27 Sec. Wash / Pause
User-defined:
  On time  2 to 99 sec.
  Off time 2 to 99 sec.

Speed
  No
  Normal
  Scooping
  User-defined 20 to 70 rpm

Agitation start:
  Automatic load control
    0 mm to Level 1
  Water level
    0 mm to Level 1
  Amount of water
    0 l to Level 1
  Load/liquid ratio
    1:0 to 1:20 kg/l

15. Level stop 1
Regulation of water inlet
  ■ Choose from the following options:
    – No
    Water flows in simultaneously with subsequent program stages Dispensing phase 1 and 2, Movement from level and Wash time 1 and 2. These program stages are dovetailed with the water intake.
    – Yes
    First the water intake to the defined level occurs and then subsequent program stages are completed. The program process stops during water intake. Rotation . Drum rotation takes over from "Movement from level".

16. Wash time 1
Drum rotation with the defined rhythm and speed occurs within the time specified.
  ■ Choose from the following options:
    – No
    – User-defined
Programming

Duration: 0. 15 to 59 Sec.
0 to 99 min.

Rhythm
- No
- Normal
- Delicate
- Gentle
User-defined:
  On time 2 to 99 Sec.
  Off time 2 to 99 Sec.

Speed
- No
- Normal
- Scooping
User-defined 20 to 70 rpm.

17. Thermostop

Thermostop is locked when "No" is programmed in program stage 4. Heating

- Choose from the following options:
  - No
  When Thermostop "No" is set, the heating phase begins when the minimum heating level is reached. Wash times 1 and 2 are completed chronologically without necessarily having to reach the temperature selected.
  - Yes
  When Thermostop "Yes" is programmed the heating phase also begins when the minimum heating level is reached and then allows Wash time 2 to run only when the target temperature is reached. Wash time 2 always starts at the target temperature.
  - Disinfection
  When Thermostop "Disinfection" is programmed the procedure is the same as for "Yes". Additionally, after a drop in temperature of 3 °C below the lowest permissible hysteresis value (e.g. in case of peak load, refueling, power cut), Thermostop is activated and Wash time 2 and Dispensing phase 2 have to run again.

18. Level 2
Settings as for Level 1

19. Intake path 2
Settings as for Intake path 1

20. Dispensing phase 2
Settings as for Dispensing phase 1
<table>
<thead>
<tr>
<th>21. Dispensing stop 2</th>
<th>Settings as for Dispensing stop 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>22. Level stop 2</td>
<td>Settings as for Level stop 1</td>
</tr>
<tr>
<td>23. Wash time 2</td>
<td>Settings as for Wash time 1</td>
</tr>
<tr>
<td>24. Cool Down</td>
<td>Cooling the water to a defined temperature before drainage.</td>
</tr>
<tr>
<td></td>
<td>■ Choose from the following options:</td>
</tr>
<tr>
<td></td>
<td>– No</td>
</tr>
<tr>
<td></td>
<td>Water cooling does not take place.</td>
</tr>
<tr>
<td></td>
<td>– Automatic</td>
</tr>
<tr>
<td></td>
<td>There is a staged water intake via the valves which are defined in &quot;Intake path 2&quot;, with a cooling speed of von 6 °F (3 °C) /min until the maximum level for the machine is reached. Then drainage to water level, again a staged water intake etc. until 113 °F / 45 °C water temperature is reached. If the programmed target level is the same as the maximum level for the machine, this is reduced by 30 %.</td>
</tr>
<tr>
<td></td>
<td>– User defined</td>
</tr>
<tr>
<td></td>
<td>Cooling temperature from 68 to 203 °F /20 to 95 °C</td>
</tr>
<tr>
<td></td>
<td>Cooling speed from 1 to 20 °C/Min.</td>
</tr>
<tr>
<td>25. Wash time 3</td>
<td>Settings as for Wash time 1</td>
</tr>
<tr>
<td>26. Program stop 2</td>
<td>Settings as for Program stop 1</td>
</tr>
<tr>
<td>27. Program stop signal 2</td>
<td>Settings as for Program stop signal 1</td>
</tr>
<tr>
<td>28. Drainage path 1</td>
<td>The point at which the water should leave the machine, and where it should drain to is set.</td>
</tr>
<tr>
<td></td>
<td>■ Choose from the following options:</td>
</tr>
<tr>
<td></td>
<td>– No</td>
</tr>
<tr>
<td></td>
<td>Draining of water does not occur. During the spin cycle, the drain valve is opened at speeds&gt; 70 rpm.</td>
</tr>
<tr>
<td></td>
<td>– Drain</td>
</tr>
<tr>
<td></td>
<td>The drain valve is activated.</td>
</tr>
<tr>
<td></td>
<td>– Memory</td>
</tr>
<tr>
<td></td>
<td>The drained water is transferred to the water recycling system.</td>
</tr>
<tr>
<td></td>
<td>– Empty reservoir</td>
</tr>
<tr>
<td></td>
<td>The WRS tank is emptied.</td>
</tr>
<tr>
<td></td>
<td>– Clean</td>
</tr>
<tr>
<td></td>
<td>The water is circulated.</td>
</tr>
</tbody>
</table>
Programming

29. Drain level
A water level can be selected. Water can remain in the suds container until the run-up to the spin commences. This enables optimum load distribution during the spin and minimizes the risk of imbalance. There is no drum rotation.

Choose from the following options:
- Water level
  0 mm to Level 1 or 2

30. Wash time 4
Settings as for Wash time 1.
In Wash time 4 the drain is permanently open.

31. Drainage path 2
Settings as for drainage path 1.

32. Free spin speed selection
Programming spin speed

Choose from the following options:
- No
  The spin cycle always runs at the spin speed programmed in the block. It is not possible to change the spin speed before the program is started.
- Yes
  The spin speed setting which was set for the last program block before a program start is carried over to corresponding program blocks. This is independent of whether "Yes" or "No" is programmed in the last block in the program stage under "Free spin speed selection". Changing the spin speed before the program starts is possible.

33. Spin
Creating a user-defined spin profile.

Choose from the following options:
- No
  No spin carried out.
- Automatic
  Spin profile

<table>
<thead>
<tr>
<th>Phase</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>1 min.</td>
<td>1 min.</td>
<td>1 min.</td>
<td>3 min.</td>
<td>3 min.</td>
<td>2 min.</td>
</tr>
<tr>
<td>Rhythm</td>
<td>No</td>
<td>12/3</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>12/3</td>
</tr>
<tr>
<td>Speed [rpm]</td>
<td>500</td>
<td>30</td>
<td>500</td>
<td>850</td>
<td>Max.</td>
<td>30</td>
</tr>
</tbody>
</table>

- User-defined
To create a spin profile 6 different spin phases can be programmed for each spin stage.
Programming

Duration: 0. 1 to 59 sec.
0 to 99 min.

Rhythm
No
Normal
Delicate
Gentle
User-defined 3/12 to 99/99 sec.*

Speed
No
Normal
Scooping
User-defined 20 to 70 rpm.
300 - max. rpm**

*Total always ≥ 15
**The ranges 1 to 19 and 71 to 299 rpm cannot be selected
Maximum spin speed depends on washing machine:

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. spin speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>PW811</td>
<td>1150 rpm</td>
</tr>
<tr>
<td>PW814</td>
<td>1075 rpm</td>
</tr>
<tr>
<td>PW818</td>
<td>1075 rpm</td>
</tr>
</tbody>
</table>

34th repetition
A block or program repetition can be set.

■ Choose from the following options:
  – No
  No repetition
  – Block
  Repetition of program blocks
  1 x block to 9 x block
  – Program
  Repetition of programs
  1 x program to 9 x program

35. Block end signal
A signal can be activated when a program block is finished.

■ Choose from the following options:
  – No
  No block end signal.
  – Yes
The "Block end" output relay was activated at the end of the block. The block end signal activated in the last block remains active until the Finish or Start button or the multifunction selector are pressed.

**Settings option**

Calling up the Settings option

```
Supervisor level ➤ Main menu
  Settings
  Change password
```

Call up the following display content by operating the multifunction selector:

```
Supervisor level ➤ Settings
  Memory function No
  Basic program lock : 1 to 17
```

**Sub-menu options:**

- Memory function
- Basic program lock
- Buzzer
- Unit Temperature
- Unit Second
- Unit Minute
- Unit Hour
- Unit Length
- Unit Mass
- Unit Volume
- Unit Pressure
- Unit Revolutions
- Unit Temperature selection
- Max. spin speed selection
- Display
- Display Stand by
- Contrast setting
- Button allocation
- Time of day
- Date display
- Dispenser calibration
- Dispensing throughput (D1 to D13)
- Dispensing correction factor (D1 to D 13)
- Dispenser level reminder (D 1 to D 13)
- Password
- Medium water pressure
- Heater rating
- Customer data
- Currency

Save set parameters

- Set the parameters.
- Press the "Save" button to save the parameters set.

Saving is carried out and the display jumps back to the sub-menu.

Tip: When the button is pressed, or if after 30 seconds no button has been pressed, the settings are not saved and the display returns to the main menu.

Memory function

The Temperature and Spin speed program parameters for those programs which can be changed before the program start, are saved after the start of the program. In addition, the button functions are not reset at the end of the program. These appear again with each new program selection.

Options:
- No
- Yes

Basic program lock

The programs in this defined program area cannot be changed, deleted or overwritten.

Options:
- No
- User-defined from: 1 to 999

Buzzer

If "Yes" is programmed, the buzzer is activated along with the programme stop signal 1 and 2, the block end signal and the fault stop signal. The buzzer frequency is increased with the fault stop signal. The buzzer is switched off after 5 minutes or when the multifunction selector is operated.

If "No" is programmed, the buzzer is switched off.

Options:
- No
- Yes
According to the set language when "auto" is set, the appropriate unit for temperature, second, minute, hour, length, mass, volume, pressure or revolutions is used.

**Unit Temperature**
Options:
- Auto
- °C
- °F

**Unit Seconds**
Options:
- Auto
- s
- sec
- sg
- sek

**Unit Minute**
Options:
- Auto
- min
- mn

**Unit hour**
Options:
- Auto
- h
- timer
- tim
- uur
- time
- hr

**Unit length**
Options:
- Auto
- mm
- inches

**Unit Mass**
Options:
- Auto
- kg
Programming

- l

**Unit Volume**
Options:
- Auto
- l
- USA gal
- CDN gal

**Unit Pressure**
Options:
- Auto
- bar
- psi

**Unit Revolutions**
Options:
- Auto
- U/min
- T/min
- rpm
- t/mn
- giri/min
- kierr/min
- r/min
- omdr/min
- v/min
- o/min

**Maximum temperature selection**
This value can be altered from 203 °F / 95 °C to cold in 1°F/°C steps and limits all temperature specifications in the programs to the selected value, so that when, e.g., 140 °F / 60 °C is selected, the water will not be heated to more than 60 °C in all programs, although a higher temperature is programmed into the selected program.
Options:
- 59 to 2013 °F / 15 to 95 °C
- cold

**Maximum spin speed selection**
This value can be changed from 0 rpm up to the maximum for the machine in the following increments:
Programming

<table>
<thead>
<tr>
<th>Area</th>
<th>Stage</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 rpm to 70 rpm</td>
<td>1 rpm</td>
<td>Replication of spin speeds</td>
</tr>
<tr>
<td>300 rpm to max* rpm</td>
<td>25 rpm</td>
<td>Spin speed range for actual spinning</td>
</tr>
</tbody>
</table>

When a speed of e.g. 500 rpm is selected all programs will spin at no higher than 500 rpm although a higher spin speed is set selected programs.

* Maximum spin speed depending on machine

Maximum spin speed depends on washing machine:

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. spin speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>PW811</td>
<td>1150 rpm</td>
</tr>
<tr>
<td>PW814</td>
<td>1075 rpm</td>
</tr>
<tr>
<td>PW818</td>
<td>1075 rpm</td>
</tr>
</tbody>
</table>

Options:
- 300 to 1150 rpm
- 20 to 70 rpm
- 0 rpm

Display

The display can be switched between "Normal" and "Detail".

In the Normal display only the temperature of the Pre-wash and the Main wash, the Final spin speed of the last block and the area names are shown before the start of the program.

1 Cottons Hygiene 14,0/14,0 kg
194°F Main Wash 1075 rpm

Switch the display to “Detail”.

When “Detail” is selected all area and block names are displayed.
Display Stand by

In the setting "Display standby: Yes", the display is switched on by operating one of the controls. If the controls are not touched again, after 10 minutes it goes into standby. The start button light ring flashes to let you know this has happened. It is switched on again by operating any control and the last active screen will appear.

In the "Display Stand by: No" setting the display is permanently switched on.

Select from the following options:
- Yes
- No

Contrast setting

Display contrast can be altered from 1 to 10 to allow the display to be optimized for specific working conditions. When the setting is altered, the contrast is changed immediately.

Options:
- 1 to 10

Button allocation

When "Direct" is set the first 6 programs on the program list are allocated to the function buttons 1 to 6.

- Confirm with the multifunction selector.
- Select from the following options:
  - Normal
  - Direct

Time of day

First select either a 24 hour or 12 hour clock.

Options:
- 24 h
- 12 h
Programming

Date display

Date format varies and is displayed according to the set country.

- Select the date format from the following chart.

<table>
<thead>
<tr>
<th>Country</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deutschland, England, Netherlands, France, Italy, Finland, Portugal,</td>
<td>Day/Month/Year</td>
</tr>
<tr>
<td>Spain, Denmark, Norway, Greece</td>
<td></td>
</tr>
<tr>
<td>Sweden</td>
<td>Year / Month / Day</td>
</tr>
<tr>
<td>USA</td>
<td>Month/Year/Day</td>
</tr>
</tbody>
</table>

Tip: The date display format can be changed corresponding to the country.

Options:
- Auto
- Day/Month/Year
- Year / Month / Day
- Month/Year/Day

Dispenser calibration

Dispenser calibration is used to measure the throughput of individual dispenser pumps.

- Press and hold multifunction button 2 and switch the machine on with "Power On".

<table>
<thead>
<tr>
<th>Dispenser calibration</th>
<th>Main menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispensing pump 1</td>
<td></td>
</tr>
<tr>
<td>Dispensing pump 2</td>
<td></td>
</tr>
</tbody>
</table>

Options:
- Dispenser pump 1 to 13

Select a dispenser pump.

When a dispenser pump is selected, the following will appear in the display:

Tip: The dispensing amount can be set from 0 to 9999 ml in 1 ml steps.

- Press multifunction button 0/1

The dispensing tube will fill up.

- Press the 0/1 button to stop the process.
Place the hose of the dispenser pump which is being checked at an upward gradient in a measuring vessel.

⚠️ Irritant detergents.
Irritant for skin and eyes
Avoid contact with skin and eyes, wear protective clothing.

Return to the main menu by pressing "Back".

Select a dispenser pump.

Press multifunction button 0/1 .
Stop the pump by pressing the 0/1 button, or it will stop automatically after 60 seconds.

Measure the amount of liquid dispensed into the measuring vessel.

Enter the measured value into the "V:" field.

The throughput P is calculated in ml/min. by the controls.

Press the "Save" button.
The measured value is allocated to the pump.

Reconnect the hose.

The throughput of the connected dispensing pumps can be set from 0 ml/min to 9999 ml/min in 1 ml steps.

Call up the display as follows:

Select "Dispensing throughput"

After selection, the following appears in the display:
Dispensing pump 2

Dispensing pump 1
Dispensing flow rate
: 6000,0 min/
No:
Options:
– No
– 1 to 9999.0 ml/min

Dispensing correction factor (D1 to D13)
The correction factor can be used if an adjustment is made to the liquid dispensing. If, e.g. the dispensing agent for Dispensing pump D1 were altered (to a higher concentration), a rapid modification can be made with the correction factor.

Calculate the correction factor using the following formula:

\[
\text{Correction factor D1} = \frac{\text{new quantity dispenser pump D1}}{\text{current quantity dispenser pump D1}}
\]

Access the following content:

Select "Dispensing correction factor".

Dispenser level reminder (D1 to D13)
The machine must be programmed if a container level reminder is required.

Select "Dispenser level reminder".
Password

The use of a password can be selected here.

Select whether a password should be used.

Options:

- Yes
- No

However if a password has been set and the “No” option is subsequently selected, when the button is pressed, the operator is prompted to enter the current password.

Medium water pressure

Medium water pressure must be set in order to calculate consumption data. This is used, among other things, for calculating water quantities in individual blocks or for a whole program.

Options:

- 0.1 to 50 bar
- 1 to 800 psi

Heat

Options:

- 0 to 999.9 kW

Customer data

Customer details can be entered here.

Options:

- Branch
- Last name
- First name
- Street
- House number
- Location
- Zip code
- Phone
- System address
- Installation date

Branch

A branch name can be selected here.

Options:

- Care home
- Medical practice
- Nursing home
- Fire brigades/rescue services
- Restaurant / Café
- Industrial laundry
- Small business
- Hotel / Guesthouse
- Industry
- Youth hostel
- Hospital
- Riding stables
- Schools
- Dry cleaners
- Housing associations
- Miscellaneous

Surname, First name
Street, House number
Town, Zip code
Telephone,
System address (a 10 digit system address for the machine can be entered here)
Installation date
Currency Options:
- auto (linked to Language)
- EUR Euro
- GBP Pound Sterling
- CHF Swiss Franc
- USD American Dollar
- RUB Russian Rouble
- CAD Canadian Dollar
- CZK Czech Krone
- DKK Danish Krone
- PLN Polish Zloty
- SEK Swedish Krone
- TRL Turkish Lira
- SKK Slovakian Krone

Laundry load menu option
A laundry load that requires a special process can be saved onto a card which has only one program on it.

■ Call up the "Laundry load" menu option.

Options:
- No
- Yes

When “Yes” is selected the machine can only be started with the card program. The programs in the controls can no longer be accessed.

■ Select "Yes" to start the card program.
Cards

Cards are divided into different applications. There are two different types of card:

Supervisor card

Key card

Supervisor card

If a card is inserted into the card reader that has a program on it, the controls no longer access the internal program memory. The contents of the card are read and appear as a program list in the display under the heading "Card operation":

<table>
<thead>
<tr>
<th>Card operation</th>
<th>Fire Department</th>
<th>113 °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum iron</td>
<td>140 °F</td>
<td></td>
</tr>
</tbody>
</table>

- Calling up program details and transferring program to controls.
- Press the multifunction selector.

The program representation will appear.

<table>
<thead>
<tr>
<th>Cottons Hygiene</th>
<th>11,0/11,0 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>194 °F</td>
<td>1075 rpm</td>
</tr>
</tbody>
</table>

- Press the "START" button.

The program is transferred to the memory in the controls.
- Remove the card from the card reader.

**Tip:** The program is only deleted from the memory when the program is finished and the card has been removed from the card reader.

If the programs on the card are not suitable for the model of machine, the following message will appear:

A card can hold max. 30 programs each consisting of 6 blocks. If there is only one program on it, the Laundry load operation option is carried out.

**Information on calling up card content**

Before the start or after the end of a program information can be called up about card content.

- Insert a card with data into the card reader and press the far-right function button at the same time.

Information about card content will appear immediately.

A data modification is not possible.

**Locking cards**

There is the option of locking and unlocking the card using the PC software.

**Tip:** Data on the card cannot be changed when it is locked.

- Insert the card into the card reader.

If there is a locked card in the reader, the following message will appear for 5 seconds when the either menu option "Data to card" or "Delete card" are selected and confirmed with the multifunction selector:
Programming

**Key card**

This card enables automatic access to the main menu of the Supervisor level without password entry. It does not need to remain in the card reader for further functions. When it is inserted the following appears in the display:

```
Supervisor level ➤ Main menu
Language: english (USA)
Time/Date: 11:43 12.5.2015

Options:
- Language
- Time/Date
- Dispensing
- Approve
- Programming
- Settings
- Change password
- Laundry load
```

**Saving changed data**

Saving data changed in the previous stage onto the Supervisor card

- Remove the key card from the card reader if necessary.
- Insert the Supervisor card into the card reader.

Saving dispensing data, language, programs, (program packets or back up), program settings (laundry load operation).

**Laundry load operation**

This function can be activated via the "Laundry loads" option in the Supervisor level.

A laundry load that requires a special wash process is saved on a card that only has that program on it.

- Call up Supervisor Level
- Select the "Laundry load" menu option.

If there is no card in the card reader or if there are other programs on the card (Laundry load operation not recognized) the following will appear in the display:

```
Card operation
Welcome
Insert card
```

When card is inserted with one program e.g.:
Data to card

With this menu option language, dispensing, program and settings data can be written from the controls onto a card.

Data from different machines cannot be combined onto one card.

- In the Main menu call up the "Data to card" display.

You have the following options:
- Data to card
- Control data
- Delete card
- Select "Data to card".

After selection, the following appears in the display:

You have the following options:
- Program
- Dispensing
- Settings
- Language

Program data

With this menu option up to max. 30 programs can be copied onto a card.

The programs are copied row by row onto the card and the program numbers allocated in the machine are copied along with them.

Tip: Laundry load operation is possible if there is only one program on the card.

- Call up "Program" in the "Data to card" menu:
Select "Program".

After selection, the following appears in the display:

```
1 Cottons Hygiene 194°F ▲
2 Cottons Universal 140°F ▼
```

Press the multifunction selector to mark the program you want.

```
1 ✔ Cottons Hygiene 194°F ▲
2 Cottons Universal 140°F ▼
```

Press the "1-999" button if all programs are to be copied.

Press the "Save" button to copy.

If there is not enough free disk space to save all the marked programs on the card, the following message will flash in the display:

```
Insufficient memory
```

**Dispensing data**

All dispensing data for available programs in the controls can be copied onto a card using this option.

Existing dispensing data can however only be overwritten following additional confirmation. Dispensing type, dispensing phase, 1, 2, (Dispenser pump, dispensing amount and level) and dispensing stop are listed for each program. Therefore if the detergent is changed dispensing can be optimized quickly and easily. Only active dispensing pumps are listed.

Call up the "Dispensing" display in the "Data to card" menu option.

Use the multifunction selector to select "Dispensing" and press to confirm your selection.
The following will then appear in the display during data transmission:

If there was already dispensing data on the card the security question will appear.

Press the "Save" button to overwrite the existing data.

**Tip:** When the button is pressed, or if after 30 seconds no button has been pressed, overwriting is not carried out and the display returns to the main menu.

**Setting data**

With this menu option all settings from the Supervisor level (see "Settings" menu option) can be copied from the controls onto a card.

However existing settings will only be overwritten following additional confirmation.

- Call up the "Settings" display in the "Data to card" menu option.

- Select "settings" and press the "START" button.

Then the display will change to the following:

If there was already settings data on the card, the security question will appear.

Press the "Save" button to overwrite the existing data.
Programming

**Tip:** When the button is pressed, or if after 30 seconds no button has been pressed, overwriting is not carried out and the display returns to the main menu.

### Language data

In the Profitronic M 11 languages are available as standard. These can be selected via the "Language" menu option in the Supervisor level.

Select the "Language" menu option to save an available language onto a card. Any existing language data on the card will only be overwritten following additional confirmation.

- **Call up the "Language" display in the "Data to card" menu option.**

```
Main menu ➤ Data to card
Settings
Language  english (USA)
```

**Option:**
- All available languages in the controls
- **Select one of the languages available in the controls using the multifunction selector.**

The following will then appear in the display during data transmission:

```
Data to card ➤ Language
```

If there was already language data on the card, the security question will appear.

```
Data to card ➤ Language
Overwrite existing data?
```

- **Press the "Save" button to overwrite the existing data.**

**Tip:** When the button is pressed, or if after 30 seconds no button has been pressed, overwriting is not carried out and the display returns to the main menu.

### Control data

With this menu option available control data (Language, dispensing data, programs or settings) can be copied from the card to the controls.

- **Call up the "data to controls" option in the Main menu.**
You have the following options:

– Data to card
– Control data
– Delete card

Select "Control data".

When "START" is selected the following appears in the display, depending on the data content of the card:

**Language**

If there is one language on the card, the following appears:

If a language was already in the selected position in the controls, the security question will appear.

Press the "Save" button to overwrite the existing data.

**Tip:** When the button is pressed, or if after 30 seconds no button has been pressed, overwriting is not carried out and the display returns to the main menu.

**Dispensing**

All dispensing data for available programs in the controls can be copied onto a card using this option.
Existing dispensing data will however only be overwritten following additional confirmation. Dispensing type, dispensing phase, 1, 2, (Dispenser pump, dispensing amount and level) and dispensing stop are listed for each program. Therefore if the detergent is changed dispensing can be optimized quickly and easily. Only active dispensing pumps are listed

- Select the "Dispensing" menu option.

When the multifunction selector is pressed, the security question will appear.

- Press the "Save" button to confirm.

During data transfer the following appears in the display:

**Tip:** If not all dispensing data can be copied from the card into the controls the following message will appear:

**Tip:** If copying is not possible as described above the following appears in the display:

**Program**

With this menu option one or more programs can be copied from the card to the controls.

**Tip:** Existing programs in the controls will be overwritten.
Select the "Program" menu option.

After selection, the following appears in the display:

<table>
<thead>
<tr>
<th>Data to control unit</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program : 13:40 10.05.15</td>
<td></td>
</tr>
</tbody>
</table>

Press the multifunction selector to confirm your selection.

The following will appear in the display:

<table>
<thead>
<tr>
<th>Data to control unit</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cottons Hygiene</td>
</tr>
<tr>
<td>2</td>
<td>Cottons Universal</td>
</tr>
</tbody>
</table>

Option:
- All programs available on the card
- Select or de-select programs by pressing the multifunction selector.

Tip: Press the 1-999 button if all available programs are to be copied onto the card.

Press the "Save" button to call up the display to select the target program place.

The first free program place in the controls appears that can accommodate all selected programs on the card.

<table>
<thead>
<tr>
<th>Data to control unit</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target program number: 11</td>
<td></td>
</tr>
<tr>
<td>Total programs : 1</td>
<td></td>
</tr>
</tbody>
</table>

Select the program place and press the "Save" button.

Data transmission is activated.

Tip: If the available space in the controls is insufficient to accommodate all selected programs from the card, the following message will appear in the display:

<table>
<thead>
<tr>
<th>Data to control unit</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insufficient memory</td>
<td></td>
</tr>
</tbody>
</table>

Tip: When the button is pressed, or if after 30 seconds no button has been pressed, overwriting is not carried out and the display returns to the main menu.

If there is enough disk storage space in the controls the following appears in the display during data transmission:
Programming

Data to control unit ▶ Program

If a target program place was chosen which is already occupied by another program the security question will appear.

Settings

With this menu option settings from the Supervisor level can be copied from the card into the controls.

Existing programs in the controls will be overwritten.

- Select the "Settings" menu option.

Data to control unit ▶ Settings
Dispensing 13:40 10.05.15

- Press the multifunction selector.

The security question will appear.

Data to control unit ▶ Settings
Overwrite existing data?

- Press the "Save" button to confirm.

During data transfer the following appears in the display:

Delete card

All data on the card can be deleted with this menu option.

- Select the "Delete card" menu option.

Supervisor level ▶ Main menu
Data to control unit ▶
Erase card data

- Press the multifunction selector to confirm your selection.

The following will appear in the display:
Supervisor level ➤ Erase card data
No data to delete

All data has been deleted.

**Tip:** If there are e.g. wash programs on the card, these can be deleted individually.

- Select the wash program you wish to delete.

<table>
<thead>
<tr>
<th>Supervisor level ➤ Erase card data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Cottons Hygiene 194 °F</td>
</tr>
<tr>
<td>2 Cottons Universal 140 °F</td>
</tr>
<tr>
<td>1-999</td>
</tr>
</tbody>
</table>

- Press the multifunction selector to mark the program you wish to delete.

- Press the "Save" button and confirm your selection.

The security question will appear.

**Tip:** When the button is pressed, or if after 30 seconds no button has been pressed, deletion is not carried out and the display returns to the main menu.

- Press the "Save" button.

The data content of the card or the marked programs are deleted and the display returns to menu selection.
Manual control

Switch to manual control.

Manual control is possible before program start or in a program stop.

- Press the "Manual control" button to access the password entry screen.

Press the "Manual control" button to access the password entry screen.

Password: _ _ _ _
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789

- Enter the password.

Enter the password.

The Manual control menu is displayed:

The Manual control menu is displayed:

<table>
<thead>
<tr>
<th></th>
<th>Wat.level:</th>
<th>Temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 mm</td>
<td>72°F</td>
</tr>
<tr>
<td>rpm:</td>
<td>0 rpm</td>
<td>0 ml</td>
</tr>
<tr>
<td>Disp. amount:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The current level, speed and temperature states of the machine are displayed.

The function buttons are assigned with specific manual control functions:

- Water intake
- Dispensing
- Washing and heating
- Drain with drum rotation
- Spin

Press the button again to end a selected function.

Press the "Stop / Finish" button to end a selected function.

Press the "Stop / Finish" button again to end Manual control.

Ending Manual control

Water intake

Water intake valves and the water level can be set.

Press the "Water intake" button.

Press the multifunction selector to confirm the selection of "Valve".

Press the multifunction selector to confirm the selection of "Valve".
Programming

- Turn the multifunction selector to select the relevant valve and press to confirm your selection.

<table>
<thead>
<tr>
<th>Manual control ▶ Water intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve: KH</td>
</tr>
<tr>
<td>Wat.level: 100 mm</td>
</tr>
</tbody>
</table>

- Turn the multifunction selector to select "Level" and press to confirm your selection.

- Turn the multifunction selector to set the level and press to confirm your entry.

- When the valve and level have been selected, start water intake by pressing the "START" button.

**Tip:** Water intake stops when the set level is reached or if the button is pressed again.

**Dispensing**

Dispensing valve and amount can be set.

This function can only be selected if "yes" is programmed in the Service level Dispensing display.

- Press the "Dispensing" function button.

<table>
<thead>
<tr>
<th>Manual control ▶ Dispensing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispensing pump: D1</td>
</tr>
<tr>
<td>Dispensing amount: 100 ml</td>
</tr>
</tbody>
</table>

- Press the multi-function selector to confirm the selection of "Dispensing pump".

<table>
<thead>
<tr>
<th>Manual control ▶ Dispensing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispensing pump: D1</td>
</tr>
<tr>
<td>Dispensing amount: 100 ml</td>
</tr>
</tbody>
</table>

- Turn the multifunction selector to select the relevant dispenser pump and press to confirm your choice.

<table>
<thead>
<tr>
<th>Manual control ▶ Dispensing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispensing pump: D1</td>
</tr>
<tr>
<td>Dispensing amount: 100 ml</td>
</tr>
</tbody>
</table>

- Turn the multifunction selector to select the dispensing amount and press to confirm your choice.

- Turn the multifunction selector to set the relevant dispenser pump and press to confirm your entry.

- Press the "START" button to start dispensing.
Programming

If dispensing has taken place, the program will be ended.

Tip: The program will also be ended if the button is pressed.

Temperature, speed and wash rhythm can be set.

- Press the "Washing and heating" function button.

<table>
<thead>
<tr>
<th>Manual control</th>
<th>Washing and heating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature: 203°F</td>
<td></td>
</tr>
<tr>
<td>rpm: No</td>
<td></td>
</tr>
</tbody>
</table>

- Set temperature, speed and wash rhythm successively.

- After setting, press the "START" button to start the "Washing and heating" program.

If washing and heating have taken place, the program will be ended.

Tip: The program will also be ended if the button is pressed.

Drainage paths, level, speed and wash rhythm can be set.

- Press the "Drain with drum rotation" button.

<table>
<thead>
<tr>
<th>Manual control</th>
<th>Drain with agitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drain path: Normal</td>
<td></td>
</tr>
<tr>
<td>Wat.level: 0 mm</td>
<td></td>
</tr>
</tbody>
</table>

- Set drainage path, level, speed and rhythm successively.

- After setting, press the "START" button to start the "Drain with drum rotation" program.

If drainage with drum rotation has taken place, the program will be ended.

Tip: The program will also be ended if the button is pressed.

The spin speed can be set.

- Press the "Spin" button.

<table>
<thead>
<tr>
<th>Manual control</th>
<th>Spin</th>
</tr>
</thead>
<tbody>
<tr>
<td>rpm: 1150 rpm</td>
<td></td>
</tr>
</tbody>
</table>

- Set the spin speed.

- After setting, press the "START" button to start the "Spin" program.

If spinning has taken place, the program will be ended.

Tip: The program will also be ended if the button is pressed.
Press the "Stop / Finish" button to end selected functions.

**Tip:** Manual control is ended by pressing the "Stop / Finish" button again.

**Function combinations**

Water intake, dispensing, washing and heating can be selected simultaneously in any combination*.

<table>
<thead>
<tr>
<th>Water intake</th>
<th>Dispensing</th>
<th>Washing and heating</th>
<th>Drainage with drum rotation</th>
<th>Spin</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* all possible function combinations highlighted in gray
## Technical data

### PW 811 machine data

#### Electrical connection

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection voltage</td>
<td>See data plate</td>
</tr>
<tr>
<td>Frequency</td>
<td>See data plate</td>
</tr>
<tr>
<td>Power rating</td>
<td>See data plate</td>
</tr>
<tr>
<td>Rated current</td>
<td>See data plate</td>
</tr>
<tr>
<td>Fuse rating</td>
<td>See data plate</td>
</tr>
<tr>
<td>Heat</td>
<td>See data plate</td>
</tr>
</tbody>
</table>

#### Installation dimensions

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing width (without add-on components)</td>
<td>31.3&quot; (795 mm)</td>
</tr>
<tr>
<td>Casing height (without add-on components)</td>
<td>53.2&quot; (1350 mm)</td>
</tr>
<tr>
<td>Casing depth (without add-on components)</td>
<td>32.6&quot; (827 mm)</td>
</tr>
<tr>
<td>Overall machine width</td>
<td>31.5&quot; (799 mm)</td>
</tr>
<tr>
<td>Overall machine height</td>
<td>53.3&quot; (1352 mm)</td>
</tr>
<tr>
<td>Overall machine depth</td>
<td>37.1&quot; (940 mm)</td>
</tr>
<tr>
<td>Minimum width of transport opening</td>
<td>31.7&quot; (805 mm)</td>
</tr>
<tr>
<td>Minimum distance between wall and front of appliance</td>
<td>50.4&quot; (1280 mm)</td>
</tr>
<tr>
<td>Minimum distance between wall and rear of appliance</td>
<td>15.8&quot; (400 mm)</td>
</tr>
</tbody>
</table>

#### Weight and floor load

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net weight</td>
<td>see installation plan</td>
</tr>
<tr>
<td>Maximum floor load during operation</td>
<td>see installation plan</td>
</tr>
</tbody>
</table>

#### Emission levels

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound pressure level in accordance with EN ISO 11204/11203</td>
<td>&lt; 70 dB(A) re 20 μPa</td>
</tr>
<tr>
<td>Sound power level, EN ISO 9614-2</td>
<td>&lt; 80 dB(A)</td>
</tr>
</tbody>
</table>

#### Product safety

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product safety standard</td>
<td>US Field Evaluation UL 206 NFPA</td>
</tr>
<tr>
<td></td>
<td>70 Bonding and Grounding Only</td>
</tr>
</tbody>
</table>
## PW 814 machine data

### Electrical connection

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection voltage</td>
<td>See data plate</td>
</tr>
<tr>
<td>Frequency</td>
<td>See data plate</td>
</tr>
<tr>
<td>Power rating</td>
<td>See data plate</td>
</tr>
<tr>
<td>Rated current</td>
<td>See data plate</td>
</tr>
<tr>
<td>Fuse rating</td>
<td>See data plate</td>
</tr>
<tr>
<td>Heat</td>
<td>See data plate</td>
</tr>
</tbody>
</table>

### Installation dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing width (without add-on components)</td>
<td>36.3&quot; (920 mm)</td>
</tr>
<tr>
<td>Casing height (without add-on components)</td>
<td>57.1&quot; (1450 mm)</td>
</tr>
<tr>
<td>Casing depth (without add-on components)</td>
<td>29.9&quot; (757 mm)</td>
</tr>
<tr>
<td>Overall machine width</td>
<td>36.4&quot; (924 mm)</td>
</tr>
<tr>
<td>Overall machine height</td>
<td>57.2&quot; (1452 mm)</td>
</tr>
<tr>
<td>Overall machine depth</td>
<td>33.5&quot; (849,5 mm)</td>
</tr>
<tr>
<td>Minimum width of transport opening</td>
<td>36.7&quot; (930 mm)</td>
</tr>
<tr>
<td>Minimum distance between wall and front</td>
<td>45.7&quot; (1160 mm)</td>
</tr>
<tr>
<td>Minimum distance between wall and rear</td>
<td>15.8&quot; (400 mm)</td>
</tr>
</tbody>
</table>

### Weight and floor load

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net weight</td>
<td>See installation plan</td>
</tr>
<tr>
<td>Maximum floor load during operation</td>
<td>See installation plan</td>
</tr>
</tbody>
</table>

### Emission levels

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound pressure level in accordance with EN ISO 11204/11203</td>
<td>&lt; 70 dB(A) re 20 μPa</td>
</tr>
<tr>
<td>Sound power level, EN ISO 9614-2</td>
<td>&lt; 80 dB(A)</td>
</tr>
</tbody>
</table>

### Product safety

<table>
<thead>
<tr>
<th>Safety standard</th>
<th>US Field Evaluation UL 206 NFPA Bonding and Grounding Only</th>
</tr>
</thead>
</table>
## Technical data

### PW 818 machine data

#### Electrical connection

<table>
<thead>
<tr>
<th></th>
<th>See data plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection voltage</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td></td>
</tr>
<tr>
<td>Power rating</td>
<td></td>
</tr>
<tr>
<td>Rated current</td>
<td></td>
</tr>
<tr>
<td>Fuse rating</td>
<td></td>
</tr>
<tr>
<td>Heat</td>
<td></td>
</tr>
</tbody>
</table>

#### Installation dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing width (without add-on components)</td>
<td>36.3&quot; (920 mm)</td>
</tr>
<tr>
<td>Casing height (without add-on components)</td>
<td>57.1&quot; (1450 mm)</td>
</tr>
<tr>
<td>Casing depth (without add-on components)</td>
<td>33.8&quot; (857 mm)</td>
</tr>
<tr>
<td>Overall machine width</td>
<td>36 3/8&quot; (924 mm)</td>
</tr>
<tr>
<td>Overall machine height</td>
<td>57.2&quot; (1452 mm)</td>
</tr>
<tr>
<td>Overall machine depth</td>
<td>37.5&quot; (950 mm)</td>
</tr>
<tr>
<td>Minimum width of transport opening</td>
<td>36.7&quot; (930 mm)</td>
</tr>
<tr>
<td>Minimum distance between wall and front of appliance</td>
<td>49.7&quot; (1260 mm)</td>
</tr>
<tr>
<td>Minimum distance between wall and rear of appliance</td>
<td>15.8&quot; (400 mm)</td>
</tr>
</tbody>
</table>

#### Weight and floor load

<table>
<thead>
<tr>
<th>Description</th>
<th>See installation plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net weight</td>
<td>see installation plan</td>
</tr>
<tr>
<td>Maximum floor load during operation</td>
<td>see installation plan</td>
</tr>
</tbody>
</table>

#### Emission levels

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound pressure level in accordance with EN ISO 11204/11203</td>
<td>&lt; 70 dB(A) re 20 μPa</td>
</tr>
<tr>
<td>Sound power level, EN ISO 9614-2</td>
<td>&lt; 80 dB(A)</td>
</tr>
</tbody>
</table>

#### Product safety

<table>
<thead>
<tr>
<th>Safety standard</th>
<th>US Field Evaluation UL 206 NFPA 70 Bonding and Grounding Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product safety</td>
<td></td>
</tr>
</tbody>
</table>
Please have the model and serial number of your machine available when contacting Technical Service.

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Miele, Inc.

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www.miele-pro.com

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