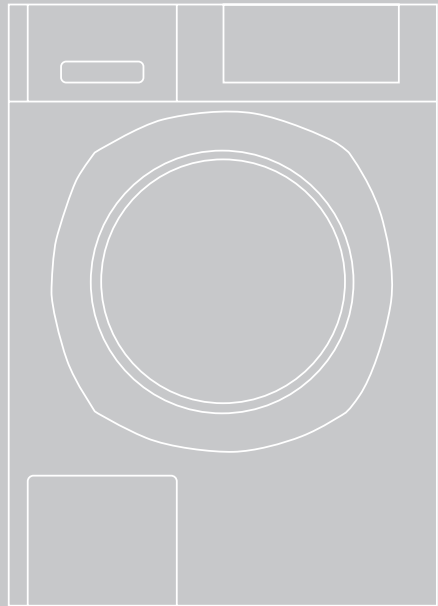


Operating instructions  
Washing machine

Spirit 520



## Symbols



Please read the instructions.



Warnings are marked with a warning triangle.

The text gives information how a dangerous situation can be avoided.

Signal words indicate the severity of the danger, if not avoided.



### **Warning**

means that possible personal injuries, and potentially life-threatening injuries may occur.



### **Important**

means property damages may occur.

## **Dear Customer**

We are pleased that you have chosen a Schulthess washing machine.

Your new washing machine is the result of many years of development work. The highest quality requirements, both in development and manufacture, guarantee a long lifetime.

Its design meets all the demands of modern laundry care and offers you a varied and individual choice of programmes.

With its extremely efficient use of water, energy and detergent, it helps to reduce the pollution of our environment and ensures you the maximum possible efficiency in the operation of your washing machine.

Please read these instructions carefully to enable you to use all the possibilities and advantages of your new washing machine. Please note in particular the safety informations.

We hope you will be very happy with your new Schulthess machine.

**Your  
Schulthess Maschinen AG**

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# Safety and safety measures

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The enclosed documents contain important information on the installation, use and safety of the machine.

Keep the documents safe for other users or subsequent owners.

- ▶ Read the instructions carefully before operating the machine.
- ▶ Keep the instructions near the machine for further reference.

This machine meets the stringent safety regulations for electronic devices.

- ▶ Please observe the safety instructions in the operating and installation instructions.

## Use in accordance with the intended purpose

The washing machine is suitable exclusively for the washing of machine washable textiles in the household.

The machine may be operated by children 8 years or older and adults with impaired physical, sensory or mental capabilities or lack of experience and knowledge, if they are supervised or have been instructed regarding the safe use of

the machine and understand the dangers resulting from the use of the machine. Do not let children play with the machine. Do not let children carry out cleaning and user maintenance without supervision.

## Safety while handling and operating

### **Warning**

Danger of electric shock!

- ▶ Do not connect an appliance which displays visible damage.
- ▶ Only touch the main switch with dry hands.
- ▶ Only pull the plug, do not pull the cable.
- ▶ Under no circumstances spray the machine with water or clean it with a steam cleaner.

Repair work may only be executed by qualified and trained personnel and defective components may only be replaced with original spare parts by the original equipment manufacturer. Inexpert repairs or non-original parts can cause considerable property damage and risk to the user.

Modifications to the appliance are only admissible after consultation with the manufacturer.

- ▶ If the mains supply is damaged, replace it with the corresponding replacement line (available from manufacturer or customer service).
- ▶ Do not immerse the aquastop valve in water.
- ▶ Always unplug the machine from the power source before carrying out maintenance work.
- ▶ If the machine is not needed for a longer period of time, disconnect it from the power supply.

### **Warning**

Risk of injury!

Climbing onto the machine may cause it to tip and cause injuries.

- ▶ Never climb onto the appliance.
- ▶ Do not sit, lean or support yourself on the loading door.

Reaching into the turning drum may cause injury to hands.

- ▶ Do not reach into the rotating drum.
- ▶ Wait until the drum stops turning.

Contact with the hot suds during wash cycles with hot water may cause burns.

- ▶ Check before washing that the pump cover is inserted and fastened securely.

- ▶ Never loosen the pump cover during an active wash programme.

After interrupting a wash programme, the laundry may still be very hot.

- ▶ Let the laundry cool before removing it.

Components sticking out from the machine (e.g. loading door) may break off and cause injuries, when used for lifting.

- ▶ Do not grip the appliance on components sticking out.

If a puddle forms on the floor near the appliance (hose tear, leak, etc.), wipe it dry and eliminate the cause (see **Problems**).

### **Warning**

Risk of fire!

Explosive substances may be formed through improper use of laundry starch and washing textiles containing solvents.

- ▶ Under no circumstances use any solvent-based detergents in the washing machine.
- ▶ Textiles which contain inflammable chemicals, solvent-based detergents, must be rinsed well in clear water by hand before washing.
- ▶ Only add laundry starch in the final rinse (Finishing rinse).

- ▶ Only use detergents, washing agents and other additives (softeners, colouring and bleaching agents, starch etc), which are intended for use in household washing machines (see manufacturer's information).

## Safety for children

### **Warning**

Risk of injury!

Children are in danger of injury or life-threatening situations, when playing with the machine.

- ▶ Keep children under 3 years of age away from the machine, when not closely supervised.
- ▶ Never permit children to play in, on or near the washing machine.
- ▶ Activate the child lock, if necessary.

Children may lock themselves in the machine – this is a life-threatening situation.

Ensure that an old appliance can no longer be used:

- ▶ Disconnect the mains cable.
- ▶ Cut through the mains cable and remove cable and plug.
- ▶ Destroy or remove the door lock.

When playing with packaging material / film and packaging parts, children may become entrapped in it or pull these over their head and suffocate.

- ▶ Keep packaging material away from children.

Ingesting detergents and care products may lead to poisoning.

- ▶ Keep detergents and laundry care products away from children.

## Safety during installation

### **Warning**

Risk of injury!

If the machine is to be placed on a plinth, it must be mounted according to the installation instructions, otherwise this involves danger of tipping or falling.

- ▶ Have the machine installed according to the mounting instructions by qualified and trained personnel.
- ▶ Do not connect an appliance which displays visible damage.



## Observe when washing

- ▶ Make certain that transport safety devices have been removed (see installation instructions). Reinstall the transport safety devices for transport temporarily.
- ▶ The maximum load is 8 kg of dry textiles.
- ▶ The water used in washing and rinsing is not drinking water! Route this wash water into a sewage system designed for it.
- ▶ When operating the washing machine at 2000 m above sea level, it is absolutely imperative to activate the temperature limiter to prevent the water from boiling (see service instructions or ask the customer service and / or retailer).
- ▶ Check the hose kit at regular intervals to ensure it can be changed in time to prevent water damage.
- ▶ When closing the door, make sure not to pinch your fingers.
- ▶ Keep pets away from the machine.
- ▶ Do not place any objects on the top cover of the machine: They might slip off and fall to the floor during the spinning process.
- ▶ Ask your dealer or customer service, when in doubt.

# Disposal

---

## **Packaging from your new machine**

All packaging materials used are environmentally friendly and reusable. Return the packaging to the retailer or supplier. Dispose of all packaging materials properly.

## **Disposal of your old machine**

Worn-out electrical and electronic equipment are to be collected, valuable materials recovered and harmful substances disposed of in an environmentally-friendly manner. For this, an advance disposal charge is levied on every household appliance and the end consumer charged directly. This is mandatory under Swiss law.

## **The advance recycling fee (vRG)**

The advance recycling fee is already contained within the price of a new machine. The current disposal of old machines is being financed with this contribution. This is why all household machines can be disposed of without charge even when a new one is not being purchased.

Your retailer, or one of the 400 official SENS collection sites, will accept worn-out machines ([www.sens.ch](http://www.sens.ch) or ask your local authority).

An additional fee can be charged for collection from the home according to cost.

# Washing tips

## Detergent

You can use all powder, compact (concentrated), tablet and liquid detergents commonly available for use in automatic washing machines.

Use the right detergent for the type and colour of your fabrics:

- ▶ Strong detergent for whites
- ▶ Coloured detergent for coloureds
- ▶ Gentle detergent for synthetics, viscose and microfibre
- ▶ Wool detergent for wool, silk and outerwear

## Detergent dosing

Follow the dosing recommendations on the laundry packaging. The dosing quantities given on the packaging usually refer to full drum loads.

For smaller wash loads reduce the dosing quantity by one third (for machines with load measurement: please note the information on the display).

Rule of thumb: If during the washing a foam layer of the approximate thickness of 2 cm above the washing liquid and / or laundry surface is detected, the dosing quantity has been selected properly.

The correct detergent quantity is dependent on:

- ▶ the water hardness
- ▶ the quantity of laundry
- ▶ the degree of soiling

## Water hardness

Water hardness plays an essential role in washing and it is divided in three groups:

Hardness	French (°fH)	German (°dH)
Soft	0 – 15	0 – 8
Medium	15 – 25	8 – 14
Hard	> 25	> 14

Ask your local government about water hardness in your area.

## Quantity of laundry

With a half-full drum, reduce the quantity of detergent by one third.

## The degree of soiling

### lightly soiled

No visible soiling or stains, the clothing has only absorbed body odour for example.

- ▶ Reduce the quantity of detergent in accordance with the recommended dose.
- ▶ Wash these fabrics in the express programme (this saves time and energy and is gentle to the textiles).

### normal soiling

Visible soiling and a few faint stains.

- ▶ Normal dosing as per the dosing recommendation.
- ▶ Wash these fabrics in the standard programme.

### heavily soiled

Clearly visible soiling and stains.

- ▶ Increased dosing as per the dosing recommendation.
- ▶ Pre-treat stains.
- ▶ Select the programme options

**Intensive, Prewash or Soak.**

---

### Notice

#### Insufficient detergent

- ▶ Only becomes apparent after repeated underdosing
- ▶ The laundry becomes grey or not properly clean
- ▶ The laundry becomes hard (board-like)
- ▶ Laundry has grey-brown spots
- ▶ May lead to calcified heating elements

#### Excess detergent

- ▶ Poorer washing results
  - ▶ Foaming over of the detergent and breakdowns
  - ▶ Higher water consumption and costs
  - ▶ Increased washing programme length
  - ▶ Unnecessary environmental pollution
- 

### Liquid detergents and start time pre-selection

If poured directly into the detergent drawer, liquid detergent slowly runs out of the detergent dispenser during the pre-set time and thickens. If this happens several times, it can lead to blockages due to detergent deposits.

- ▶ Use dosing aids such as dosing balls or bags supplied with the detergent.

### Soap-based detergents

Because soap does not contain anything to prevent limescale, you should only use it with soft or medium-hard water, together with a separate water softener.

---

### Notice

Without softener, limescale and soap residue can build up in the machine, which will be deposited on laundry in the form of grease spots or as limescale on the heating element.

---

- ▶ Activate the setting **Soap wash programme** (see chapter **Settings**).

### Water softeners

Special water softening aids can be used in the water hardness ranges «medium» and «hard». Dose detergents according to the hardness level «soft» (follow the instructions on the packaging).


- ▶ Add the detergent first and then the water softener into the same compartment for best washing in results.

### Soaking agents

- ▶ Choose the programme option **Soak**.
- ▶ Add the soaking agents to **compartment I** of the detergent drawer.

## Fabric softener, fabric conditioner

Before adding thick fabric softener add water and stir to ensure that it is free of lumps so that the siphon does not get blocked.

- ▶ Add to the fabric softener to **compartment**  of the detergent drawer.

---


## Notice

Do not exceed the «max» mark in the fabric softener compartment. Otherwise it will be washed in at the beginning of the programme together with the detergent, instead of in the programme step «Finish».

---

## Bleach, stain removal salt

For bleachable stains you can add powdered laundry bleach and stain removal salt to your laundry detergent.

- ▶ For best washing in results, add the laundry detergent first and then the laundry bleach or stain removal salt into **compartment** .

## Impregnating agent

Garments can be evenly and permanently impregnated in the washing machine.

Breathable all-weather clothing such as GoreTex or SympaTex must only be treated with the specifically designated impregnating agent. Otherwise you risk blocking the breathing membranes (see also

**Programmes / Sportswear, outdoor / Impregnating**).

## Hot water supply

The following points should be noted:

- ▶ The max. permissible hot water temperature is 70 °C.
- ▶ For pre-wash, for programme temperature of  $\leq 30$  °C as well as for the programmes «Delicates» and «Curtains», only cold water is used.
- ▶ For programme temperatures  $\geq 40$  °C, cold and warm water is mixed until the programmed wash temperature is reached.

---

## Notice

In the case of textiles soiled with blood or proteins, select the option **Prewash**.

Washing these stains out at a temperature of about 30 °C prevents setting the stain on the fabric at higher temperatures during the main-wash.

---

## Rainwater connection

If you wish to use rainwater, this must be filtered or hygienically clean to avoid contamination.

---

## Notice

A rainwater utilisation system is required to operate your washing machine with rainwater.

Rainwater is also used for the «Finishing rinse» programme stage.

---

## Environmentally compatible washing

Your washing machine will operate most efficiently and most environmentally friendly if you fill it with the maximum laundry quantity.

Small loads are uneconomical and result in increased wear of laundry and machine.

---

### Notice

Do not exceed the maximum loading quantities!

Overfilling detracts from the washing result and may lead to fabric damage.

---

Save water, energy, detergent and time by doing without pre-washing for normally soiled laundry.

## Washing tips

### Sorting the laundry

Follow the care symbols in the fabrics.



#### do not wash

Laundry marked with this care symbol may not be washed in the machine.

Sort the laundry by colour, fabric type and temperature.

Wash whites and coloureds separately, otherwise white laundry will become grey.

Do not wash new coloureds with other laundry due to the risk of discoloration!

Check that brassieres are machine washable.

Knitwear made wholly or partly from wool must also be labelled «non-felting» or «machine washable», otherwise there is a risk of felting during the washing process.



### Important

Textiles with metal reinforcements can damage the components of the machine and must not be washed in the washing machine.

- ▶ Wash brassieres with stiffeners in a fine-mesh laundry bag because of the risk of the wires becoming detached in the wash and falling through the drum perforations with resultant damage.

### Preparing the laundry

- ▶ Remove foreign bodies such as safety pins, paper clips, coins etc from the laundry.
- ▶ Brush out sand from the pockets and turn-ups.
- ▶ Close zips, hooks, eyelets and Velcro closures.
- ▶ Turn trousers, knitwear or knitted fabrics, e.g. jerseys, T-shirts, sweatshirts inside out.
- ▶ Button up duvet covers and pillowcases and tie fabric belts and apron strings together.
- ▶ Wash laundry with cords and particularly tricky items in mesh bags (Do not exceed 1.5 kg textiles per mesh).

## Stain removal

Stains that are not pre-treated may become set on the textiles during the wash. Such stains may be permanent or can only be removed with very strong bleaching agents.


- ▶ Stains should be removed or at least pretreated immediately, as long as they are fresh. Stains which have already dried (in particular in sun light) are much more difficult to remove.
- ▶ Use water, soap, hard soap or pre-wash agents for pre-treating.
- ▶ Dab it on and slightly rub it in. Let it soak, then rinse the textile.

It may sometimes be necessary to pretreat, wash or soak textiles several times in order to remove tenacious and dried stains.

In this way it is possible to completely or almost completely remove many typical household stains like gravy, coffee, chocolate, wine, fat, oil, fruit juices, blood, etc.

## Dyeing textiles in the washing machine

### Starting and interrupting the programme

- ▶ Choose the washing programme according to the information of the dye manufacturer.
- ▶ Press **START** to start the programme.
- ▶ As soon as the water runs in (water is running over the inside of the door glass), press button **Open the door**  (**not lit!**) within 10 seconds. The programme will be interrupted and the door unlocked.

---

### Important

At the end of the 10 seconds, the door can no longer be opened. In this case cancel the programme (see **Washing / Interrupting the programme**) and repeat the procedure.

---

### Adding dye and laundry

- ▶ Place the different components of the dye (according to the instructions of the dye) into the drum, with the salt at the bottom.
- ▶ Afterwards add the textiles.
- ▶ Close the door and re-press **START**. The programme is continued.

# Machine description

---

Detergent drawer

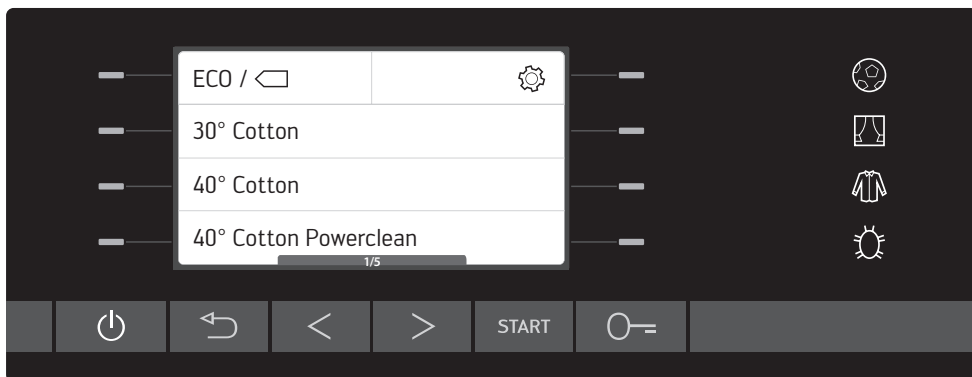
Control and display area







Maintenance hatch

Loading door





## Display and buttons

-  On / Off
-  Back in the menu
-  Scroll backwards
-  Scroll forwards

**START** Start programme

 Open the door





**ECO** Eco programmes

 Standard programmes

 Settings

**1/5** Page number programme menu

## Programme groupes

-  Sportswear, outdoor
-  Homecare
-  Businesswear
-  Antibac

## Detergent drawer



Detergent for the main wash, bleach, modular detergent, starch, water softener



Fabric softener and other laundry care additives for the final rinse.



Detergent for prewash and soaking



Lid for liquid detergent



Button for unlocking

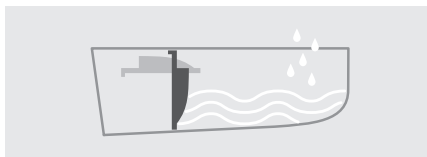
### **Pull out the detergent compartment completely**

- ▶ Press the release button **B** to remove the detergent drawer.
- ▶ (See **Cleaning and maintenance / Cleaning the detergent drawer**).

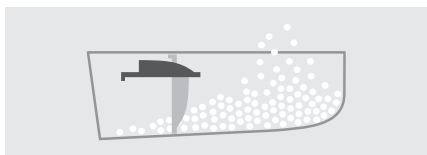
### **Detergent dosing**

- ▶ See **Washing tips**.

## Liquid detergent



- ▶ Pull the flap **A** down.



- ▶ For washing powder and tablets, push the flap up and back.

---

### **Notice**

Liquid detergent can run out slowly and thicken, leading to blockages.

When using start time preset, use a dosing ball for liquid detergents and place it into the drum with your laundry.

- ▶ Use only powder detergents and not liquid detergents for programmes with pre-wash or pre-rinse.
-

# First-time use

---

- ▶ Install the machine according to the installation instructions.
- ▶ Do not connect an appliance which displays visible damage.
- ▶ Make certain that transport safety devices have been removed.

## First wash cycle (without laundry)


The washing machine underwent extensive testing before leaving the factory.

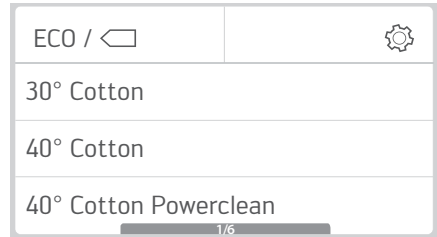
- ▶ Run the first wash cycle without laundry, to remove any water remaining from the manufacturing process.


## Preparing the appliance

- ▶ Check if the pump cover is screwed on (see **Cleaning and care**).
- ▶ Switch on the power supply.
- ▶ Open the water tap.

## Turn on machine

- ▶ Press button **On / Off** . After starting, the main menu is displayed.



- ▶ Press the arrow button **Scroll forwards**  for the next page of the menu.
- ▶ Tap the light bar next to **60° Cotton**.

## Adding the detergent

- ▶ Pull out the detergent drawer until it reaches its stop.
- ▶ Add half a scoop of all purpose detergent to **compartment II** (Do not use mild or wool detergent to avoid foaming).

## Starting the programme


- ▶ Press button **START** . After the end of the programme, the machine is ready for use.

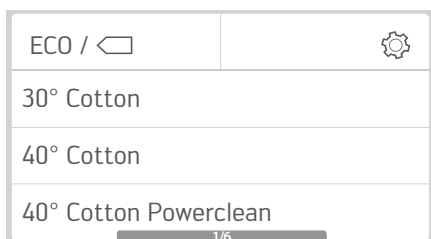
# Washing


## Preparing the appliance

- ▶ Screw on pump cover.
- ▶ Switch on the power supply.
- ▶ Open the water tap.


### Turn on machine

- ▶ Press button **On / Off** . After starting, the main menu is displayed.



- ▶ Additional menu pages can be opened by pressing the arrow button **Scroll forwards** .

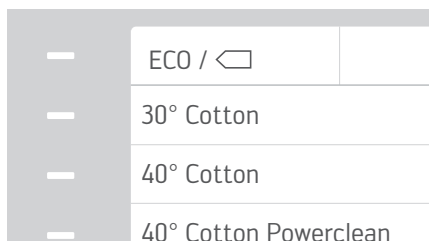
### Opening the door

- ▶ Press button **Open the door** . The loading door springs open.

### Child lock active

See  **Settings / Child lock.**

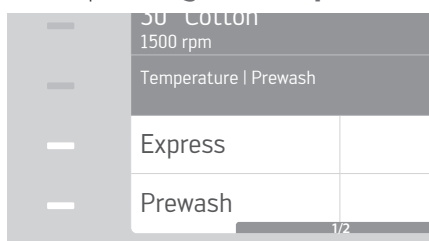
## Selecting the wash programme




- ▶ Select the desired programme by tapping the light bar. The display shows the programme selected with programme duration, spin speed, maximum load as well as additional selectable options.
- ▶ Select the desired programme options or put the laundry in the machine.

### Select programme options

The individual options are described in the chapter **Programme options.**



- ▶ Select the desired option/s by pressing the light bar or the corresponding symbol. Selected options change colour and are shown in the upper part of the display.
- ▶ If necessary, cancel the selection by tapping the light bar again.

- ▶ Additional options can be accessed by pressing the arrow button **Scroll forwards** .

### Adding laundry

- ▶ Make sure that there is no foreign body in the drum and the detergent drawer (coins, nails, paper clips, etc.).
- ▶ Distribute the laundry evenly in the drum.
- ▶ Mix large and small laundry items.

### Closing the door

- ▶ Close the door by pushing it until the lock audibly engages.
- ▶ Ensure that no items of laundry are trapped between the door and the rubber seal.




### Adding the detergent

- ▶ Please observe the notes under **Machine description / Detergent drawer**.

#### **Important**

Risk of water damage.  
Close the detergent drawer after dosing until you feel it lock.

### Changing the programme before starting

- ▶ Return to the main menu with the button  **Back in the menu**.
- ▶ Repeat the selection of programmes and options.

---

#### **Child lock active**

See  **Settings / Child lock**.

---

### Starting the programme

- ▶ Press button **START**.

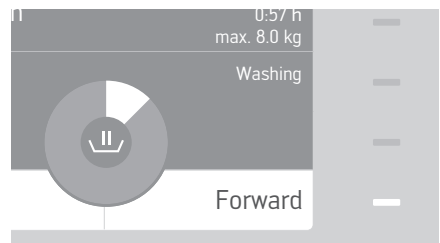
---

#### **Child lock active**

See  **Settings / Child lock**.

---

### Skipping to the next programme step



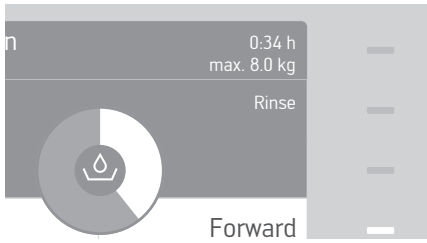
- ▶ Press the light bar next to **Forward** until the desired programme step is displayed.

---

#### **Child lock active**

See  **Settings / Child lock**.

---



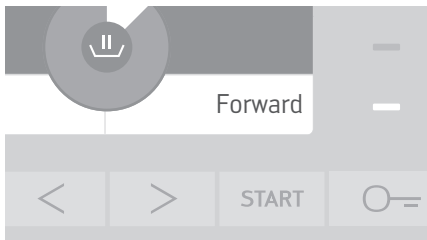
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### Notice

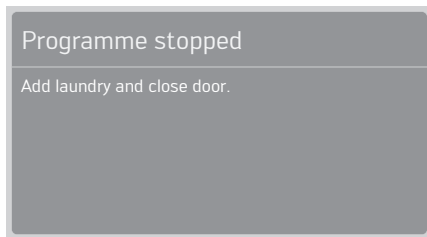
At the end of the 10 seconds, the door can no longer be opened. If this is the case, cancel the programme (see **Washing / Cancelling the programme**) and repeat the process.

---

## Adding more laundry



- ▶ Press button **Open the door**  (**is not lit!**). The programme will be interrupted and the door unlocked.



- ▶ Follow the directions on the display.

---

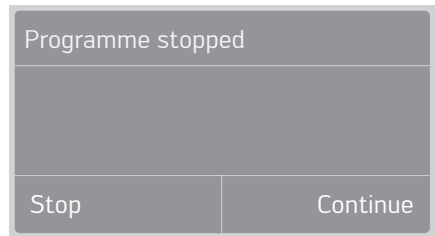
### Child lock active

See  **Settings / Child lock**.

---

## Interrupting the programme

- ▶ Press button **On / Off**  until the following window is displayed:



- ▶ Press the light bar next to **Stop**, to end the programme. To resume the programme, press the light bar next to **Continue**.

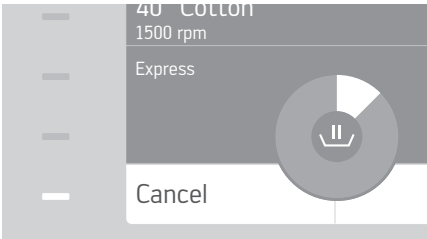
---

### Child lock active

See  **Settings / Child lock**.

---

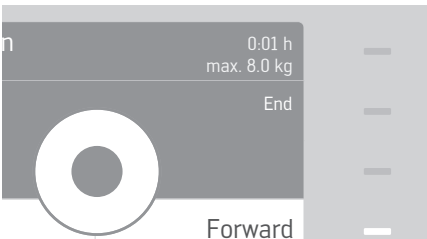
## Cancelling the programme



- ▶ Press the light bar next to **Cancel** until **End** is displayed.

### Child lock active

See  **Settings / Child lock.**

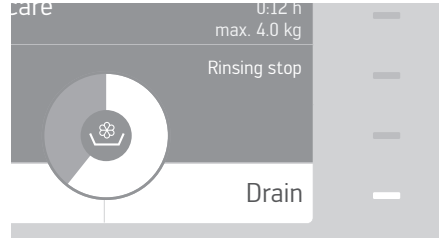


- ▶ The water will be drained and the programme ends.

## Ending programme with rinsing stop

The laundry will be held in the last rinse water. Now you have two options:

## The laundry can be removed dripping wet



- ▶ Select **Drain**. The rinse water is pumped out and the laundry can be removed.

### Child lock active

See  **Settings / Child lock.**

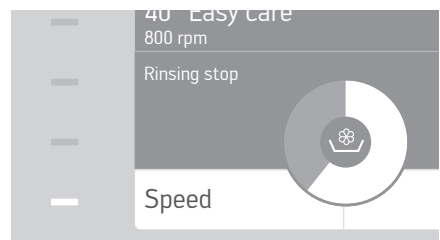
## The laundry can be spun after rinse stop

- ▶ Press button **START**. The water will be pumped out and the laundry spun.

### Child lock active

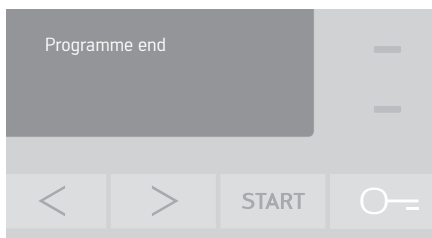
See  **Settings / Child lock.**

- ▶ To adjust the spin speed before spinning, press the light bar next to **Speed** (see **Programme options / Speed**).



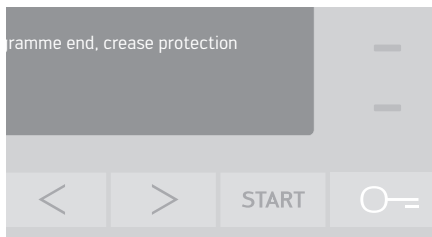
## Programme end

The programme end is shown.



When crease protection is turned on, the drum continues to turn in short intervals after programme end (see **Settings / Crease protection**). The door can be opened.

## Remove the laundry



- ▶ Press button **Open the door** .
- ▶ Remove the laundry.

---

### Child lock active


See  **Settings / Child lock**.

---

## After the wash

- ▶ Remove any foreign objects (e.g. paper clips) from the drum and rubber seal, to avoid iron stains.



- ▶ Leave the door open or opened by a crack after washing. Drying and airing out the drum prevents odour and mould formation.
- ▶ Close the water taps.
- ▶ Press button **On / Off**  until the display turns off.
- ▶ Unplug the machine, when not used for longer periods of time.

---

### Important

Close the water taps. If the water tap is open while the power supply is interrupted, the overflow protection does not function.

(Only for machines without aquastop: The aquastop valve automatically blocks the water supply when the programme has ended.)

---







# Programme survey

 Always check the care symbols on the fabrics

h:min = Duration / l = Water consumption / kWh = Power consumption (Approximate values)


## ECO programme





Reduced energy consumption with unchanged cleaning power

		h:min	l	kWh
8,0 kg	<b>40° Cotton ECO</b>			
	Towelling, jeans, pullover, T-shirts, socks ▶ Coloured cotton	<b>1:12</b>	65	0,45
8,0 kg	<b>60° Cotton ECO</b>			
	Bed linen, aprons, jeans, towels, shirts, underwear ▶ Coloured cotton, line	<b>1:22</b>	65	0,9
8,0 kg	<b>90° Cotton ECO</b>			
	Bed and table linen, towels, aprons, underwear ▶ White and colourfast cotton and linen	<b>1:37</b>	65	1,5
4,0 kg	<b>40° Easy care ECO</b>			
	Outerwear, shirts, blouses, T-shirts, socks ▶ Easy care cotton, mixed fibres or textiles with synthetic fibres	<b>1:15</b>	57	0,55
4,0 kg	<b>60° Easy care ECO</b>			
	Outerwear, shirts, blouses, aprons ▶ Easy care cotton, mixed fibres or textiles with synthetic fibres	<b>1:20</b>	64	0,9
4,0 kg	<b>90° Easy care ECO</b>			
	Outerwear, shirts, blouses, aprons ▶ Easy care cotton, mixed fibres or textiles with synthetic fibres, colourfast	<b>1:27</b>	64	1,5

## Most efficient programmes for cotton textiles






according to regulation (EU) no. 1015 / 2010

The following standard programmes (marked with ) are suitable for cleaning normally soiled cotton textiles and are most efficient regarding combined energy and water usage.

		h:min	l	kWh
8,0 kg	<b>40° Cotton</b> 			
	Jeans, pullover, T-shirts, towelling ▶ Coloured cotton	<b>2:49</b>	55	0,55
8,0 kg	<b>60° Cotton</b> 			
	Bed linen, aprons, jeans, towels, shirts, underwear ▶ Coloured cotton, line	<b>2:49</b>	55	0,76




Programme settings for testing and energy labelling according to directive 2010 / 30 / EU

## Programmes main menu

		h:min	l	kWh
8,0 kg	<b>30° Cotton</b>			
	Jeans, pullover, T-shirts ▶ Coloured cotton	<b>0:57</b>	69	0,45
8,0 kg	<b>40° Cotton</b>			
	Jeans, pullover, T-shirts, socks ▶ Coloured cotton	<b>0:57</b>	69	0,7
4,0 kg	<b>40° Cotton Powerclean</b>			
	Jeans, pullover, T-shirts, socks ▶ Coloured cotton, quick wash ▶ Small and medium loads	<b>0:57</b>	55	0,75
8,0 kg	<b>60° Cotton</b>			
	Bed linen, aprons, jeans, towels, shirts, underwear ▶ Coloured cotton, line	<b>1:07</b>	69	1,3
4,0 kg	<b>60° Cotton Powerclean</b>			
	Bed linen, aprons, jeans, towels, shirts, underwear ▶ Coloured cotton, line, quick wash ▶ Small and medium loads	<b>0:57</b>	55	1,2

		h:min	l	kWh
4,0 kg	<b>30° Easy care</b>			
	Outerwear, T-shirts, shirts, sportswear ▶ Easy care cotton, mixed fibres or textiles with synthetic fibres	<b>0:55</b>	57	0,45
4,0 kg	<b>40° Easy care</b>			
	Outerwear, shirts, blouses, T-shirts, socks ▶ Easy care cotton, mixed fibres or textiles with synthetic fibres	<b>0:59</b>	64	0,7
4,0 kg	<b>60° Easy care</b>			
	Outerwear, shirts, blouses, aprons ▶ Easy care cotton, mixed fibres or textiles with synthetic fibres	<b>1:05</b>	64	1,3
3,2 kg	<b>40° Delicates</b>			
	Curtains, dresses, blouses, skirts, panty hoses, bras ▶ Particularly sensitive textiles made of cotton or mixed fibres, synthetics or viscose ▶ Reduce spin speed for textiles prone to creasing	<b>0:56</b>	52	0,7
2,6 kg	<b>20° Hand wash</b>			
	Textiles made from hand-washable wool or wool blend ▶ Dry wool in a dryer in a basket or briefly dry in a dryer with «Wool finish» and then spread on a terry towel to let air dry	<b>0:39</b>	49	0,1
2,6 kg	<b>30° Wool</b>			
	Machine washable fabrics made of or containing wool ▶ Wool mark stating «non-felting» or «machine washable» ▶ Dry as described above	<b>0:39</b>	49	0,3
1,6 kg	<b>30° Silk</b>			
	Handwashables without wool ▶ Wash panty hoses and bras in a washing net	<b>0:50</b>	45	0,35
3,0 kg	<b>30° Quickwash</b>			
	Jeans, pullover (Sportswear), bathing suits, towelling ▶ Non-soiled cotton, mixed fibres and synthetic fibres that are lightly creased ▶ New textiles (removal of production residues)	<b>0:15</b>	28	0,2



h:min | l | kWh


8,0 kg	<b>20° Cotton</b>			
	Jeans, pullover, T-Shirts ▶ Lightly soiled coloured cotton, non-colourfast dyed	<b>0:57</b>	69	0,3
8,0 kg	<b>90° Cotton</b>			
	Bed and table linen, kitchen laundry, towels, aprons, underwear ▶ White and colourfast cotton and line	<b>1:21</b>	69	2,5
4,0 kg	<b>70° Baby clothes</b>			
	Diapers, onesies ▶ White and colourfast cotton ▶ With pre-rinse. Add the detergent to <b>compartment II</b>	<b>1:50</b>	105	1,6
8,0 kg	<b>Rinse, spin</b>			
	For rinsing hand-washed textiles ▶ Rinse and Spin ▶ Follow recommended spin speed for textiles prone to creasing	<b>0:17</b>	35	0,1
8,0 kg	<b>Spin</b>			
	▶ Spin only ▶ Follow recommended spin speed for textiles prone to creasing	<b>0:10</b>	–	0,1



## Sportswear, outdoor



h:min | l | kWh

3,0 kg	<b>30° Sportswear</b>			
	Sports and leisure jackets, weather gear, ski wear, fleece, T-shirts, shorts ▶ Modern textiles from microfibre or with a high percentage of microfibre, e.g. GoreTex or SympaTex ▶ Do not use fabric softeners	<b>0:59</b>	62	0,25
3,0 kg	<b>30° Impregnating</b>			
	Sports and leisure jackets, weather gear, ski wear, table linen ▶ For impregnation of modern textiles from microfibre or with a high percentage of microfibre (e.g. GoreTex or SympaTex), to obtain a water- and dirt repelling effect.	<b>0:54</b>	20	0,4

		h:min	l	kWh
2 pair	<b>30° Athletic shoes</b>			
	<p>Athletic shoes, sneakers</p> <p>Washable athletic and leisure shoes made of cotton or synthetic materials</p> <ul style="list-style-type: none"> <li>▶ With pre-rinse. Add the detergent to <b>compartment II</b></li> <li>▶ Follow manufacturer's care instructions (no leather goods)</li> <li>▶ Dry shoes in a dryer in a basket or let air-dry</li> </ul>	<b>1:15</b>	108	0,45



## Homecare

		h:min	l	kWh
2,0 kg	<b>40° Curtains</b>			
	<p>Curtains labelled as machine washable</p> <ul style="list-style-type: none"> <li>▶ Mixed fibre fabrics or synthetics</li> <li>▶ De-select spinning for curtains prone to creasing</li> <li>▶ With pre-rinse. Add the detergent to <b>compartment II</b></li> </ul>	<b>1:05</b>	82	0,8
2,4 kg	<b>60° Down, cushion</b>			
	<p>Blankets, pillows, jackets, sleeping bags</p> <p>Feather, down, synthetic or natural hair stuffing</p> <ul style="list-style-type: none"> <li>▶ Press the air out of the laundry before washing, so that the down is wetted faster</li> <li>▶ With pre-rinse. Add the detergent to <b>compartment II</b></li> </ul>	<b>1:26</b>	49	0,75
-	<b>70° Autoclean</b>			
	<p>Cleaning the machine. Without laundry and detergent.</p> <ul style="list-style-type: none"> <li>▶ Hygienically cleans the drum and washing liquor tanks and prevents odour build-up</li> <li>▶ If you would like to use a detergent, we recommend the use of the Schulthess cleaner R 163.</li> <li>▶ Start the Autoclean programme. Immediately press the <b>Forward</b> button on the light bar. The programme then jumps to the washing programme step. During the dispensing of water, pour approximately 50 ml of cleaner into the <b>compartment II</b></li> </ul>	<b>0:25</b>	28	0,8

When frequently washing at low temperatures, there is a risk of bacterial contamination.



## Businesswear

h:min | l | kWh

### 2,0 kg 40° Shirts, blouses Iron finish



9 shirts or blouses made of cotton or mixed fibres  
▶ Pre-treat collars and cuffs, depending on degree of soiling  
▶ Hang laundry immediately after washing and let air dry. This way you normally do not have to iron.

1:12 | 37 | 0,4

### 4,0 kg 40° Jeans



Jeans, chinos, jackets  
▶ Cotton or mixed fibre  
▶ Wash jeans fabrics inside out

1:06 | 65 | 0,75

### 2,6 kg 30° Pullover



Pullover  
▶ Cotton or mixed fibre

0:50 | 75 | 0,45



## Antibac

h:min | l | kWh

### 8,0 kg 40° Cotton Antibac



Jeans, pullover, T-shirts, pants, socks  
▶ Coloured cotton

1:13 | 79 | 1,0

### 8,0 kg 60° Cotton Antibac



Bed linen, aprons, jeans, towels, shirts, underwear  
▶ Coloured cotton, line

1:26 | 79 | 1,9

### 8,0 kg 90° Cotton Antibac



Bed and table linen, kitchen laundry, towels, aprons, underwear  
▶ White and colourfast cotton and line



1:34 | 79 | 2,8

### 4,0 kg 40° Easy care Antibac



Outerwear, shirts, blouses, T-shirts, socks  
▶ Easy care cotton, mixed fibres or textiles with synthetic fibres

1:09 | 64 | 0,9

		h:min	l	kWh
4,0 kg	<b>60° Easy care Antibac</b>			
	Outerwear, shirts, blouses, bed and table linen ▶ Easy care cotton, mixed fibres or textiles with synthetic fibres	<b>1:18</b>	64	1,5
4,0 kg	<b>90° Easy care Antibac</b>			
	Bed and table linen, towels, underwear ▶ Easy care cotton, mixed fibres or textiles with synthetic fibres, white and colourfast	<b>1:26</b>	64	2,1

# Special programmes

---

Pressing the symbol button the menu of the respective programme group is called up.

## Sportswear, outdoor



The sportswear programmes are suitable for weather gear, sports and leisure jackets as well as modern clothing made of microfibre or with a high microfibre content, e.g. Gore-Tex or SympaTex.

- ▶ Only use mild detergents, for GoreTex and SympaTex, too.
- ▶ Add liquid detergent to a dosing ball and place it into the drum with your laundry.

---

### Notice

Do not use fabric softener. This can block the breathable membranes and prevent successful subsequent impregnation.

---



### Pre-treating stains

Heavy stains e.g. fat, sun cream, lipstick or cosmetics, require suitable pre-treatment:

- ▶ Rub liquid gentle detergent directly into the stain with your fingers. Do not scrub (Risk of damage to the fabric!).
- ▶ Leave to work for around 5 minutes and then wash the items in the washing machine.

## Impregnating

To prepare the laundry for impregnation, it must first be washed clean and rinsed with cleaning vinegar:

- ▶ Add the laundry.
- ▶ Add the detergent.
- ▶ Pour the cleaning vinegar into **compartment** , until it reaches the marking **max**.
- ▶ Run the programme **Sportswear, outdoor**.
- ▶ Immediately after the washing programme is completed, start the **Impregnating** programme.
- ▶ Add 3,5 dl impregnants at the same time the water runs in into **compartment** .
- ▶ After impregnation in the washing machine, the laundry shall be dried completely at the maximum admissible temperature for the respective textiles.

---

### Notice

Microfibre fabrics, GoreTex and SympaTex should only be treated with special impregnation products designed for them. Otherwise, there is a risk that the breathable membranes become clogged.

---



## Homecare



Because of their high water level and low spin speed, homecare programmes are particularly well suited for household textiles made of mixed fabrics and synthetics.

- ▶ Select **Rinsing stop** to prevent creasing at the end of the programme.
- ▶ Place metal rings or plastic hooks in a laundry net or bag (cushion cover).

---

### Important

Older curtains are often very bleached by the sun and no longer very resistant. Machine washing can therefore cause slight damage.

---

## Businesswear



Usually there is no need to iron on-iron shirts and blouses.

- ▶ Hang the shirts and blouses up and let them air dry.
- ▶ Pre-treat heavily soiled collars and cuffs.


## Antibac



The Antibac programme kills harmful germs and mites to a great extent and flushes out allergens especially well.

# Programme options

---

- ▶ By also selecting one or more options, a wash programme can be specifically tailored to the particular characteristics of the laundry.
- ▶ Programme options are only activated for the duration of the current wash programme.
- ▶ Long-term modifications can be made in the user settings (Menu  **Settings**) and stay activated until they are changed again.

---

## Notice

The programme options **Express**, **Intensive** and **Prewash** are mutually exclusive, therefore only one of these options can be selected.

---

## Express

Gentle and energy-saving washing of lightly soiled textiles. Reduces washing time.

- ▶ Maximum load: 4 kg
- ▶ For small loads of washing or light soiling, reduce the amount of detergent (see manufacturer's information on the package).

## Prewash

For particularly heavily soiled laundry with bad stains (e.g. blood, protein-containing stains etc.) as well as occupational laundry.

The prewash temperature is 30 °C.

- ▶ Add  $\frac{1}{4}$  of the detergent to **compartment I**.
- ▶ Use powder detergent.

## Intensive

For heavily soiled textiles, especially for bleachable stains (e.g. fruit, coffee, tea, red wine, oil).

The washing time is extended.

## Temperature

The temperature can be reduced in 10 °C stages. The display shows the current temperature.

- ▶ Reduce the preset temperature by tapping the light bar next to **Temperature**.

---

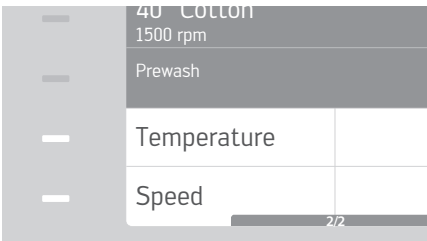
## Notice

The temperature cannot be lowered for the programmes **70° Autoclean** and **Antibac**.

---

## Speed

Select a lower spin speed for a gentler treatment of your laundry. The current spin speed is shown on the display.



- ▶ Tapping the light bar next to **Speed** reduces the spin speed in steps of 100 rpm. At 0 rpm the laundry is not spun and can be removed wet.

### Notice

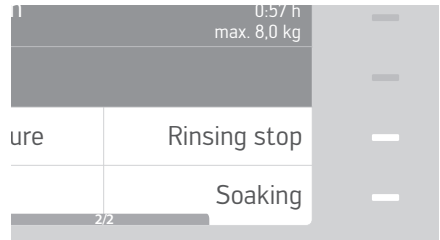
Select a high spin speed for laundry that will be dried in a dryer or ironed with a finisher. Well-drained laundry needs much less energy and time for machine drying.

## Rinsing stop

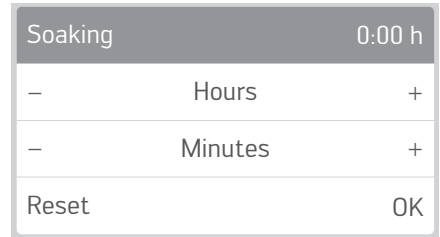
The «Rinsing stop» function is used to avoid creasing of sensitive fabrics. The laundry is held in the last rinse water.

- ▶ You can end the programme by draining the water without spinning or by spinning (see **Washing / Ending programme with rinsing stop**).

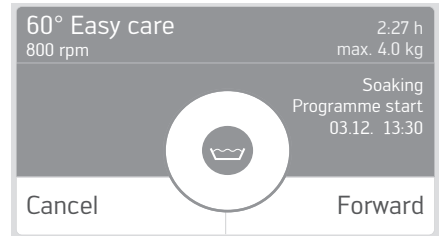
## Soaking



- ▶ Tap the light bar next to **Soak**.



- ▶ Enter the desired soaking time by tapping the light bar (15 min-steps / max. 24 hours).
- ▶ Confirm your entry with **OK**.
- ▶ Press button **START**. The soaking time starts, the remaining time until programmes start is displayed.



- ▶ The selected programme starts automatically after soaking.
- ▶ Select **Forward** to start the washing programme immediately.

---

## Child lock active

See  **Settings / Child lock.**

---

### Notice

In case of a power interruption, the current soaking time is saved. The duration of the power interruption has no effect.

- ▶ Add soaking detergent to **compartment 1** the laundry detergent to **compartment 2**.
  - ▶ The **Soaking** option is not available with the Express and Antibac programmes.
- 

## Time preset

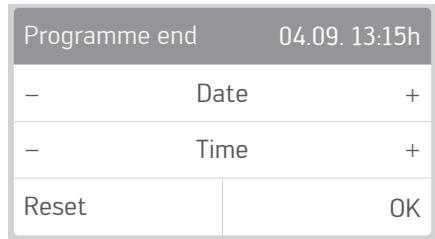


- ▶ With the option **Time preset** the start time of the programme can be delayed and thus suit your lifestyle (e.g. taking advantage of cheaper night-time electricity).
- 

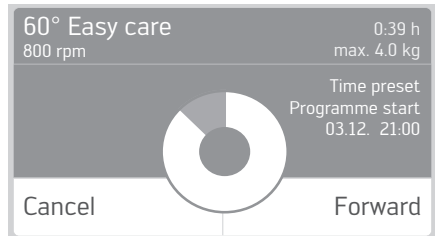
### Notice

- ▶ Check, if the time on the machine is set correctly. (see **Settings / Time**).
  - ▶ When using liquid detergent, fill the detergent into dosing ball and place it into the drum with your laundry.
- 

- ▶ First select the desired programme.
- ▶ After this select the option **Time preset**.



- ▶ Enter date and time for the programme end by tapping the light bar (15 min-steps).
- ▶ Confirm the entry with **OK** and press **START**.  
The preset time starts. The remaining time until programmes start is displayed.



- ▶ The selected programme starts automatically when the start time is reached.
  - ▶ Pressing the start button again cancels time preset and the washing programme can be started immediately.
- 

## Child lock active

See  **Settings / Child lock.**

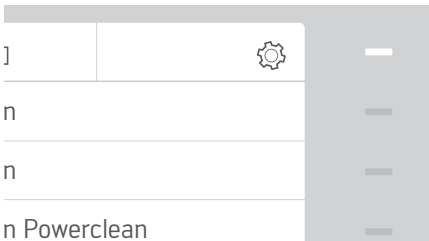
---


# Settings

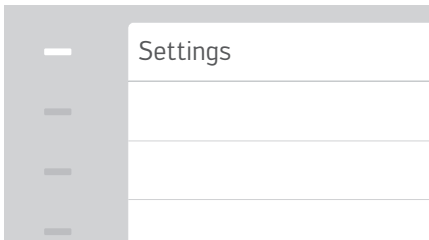
Your washing machine has basic settings from the factory. The settings can be adapted to the users individual needs either when first used or later using the following functions.

The settings can only be changed if no wash programme is running.

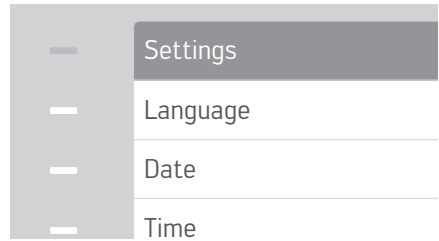
## Change settings



- ▶ Tap the light bar next to .




- ▶ Select **Settings** by tapping the light bar.  
The menu **Settings** is displayed.



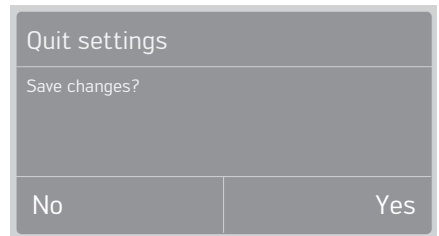
- ▶ Select the desired settings.  
Additional menu pages can be opened by pressing the **arrow buttons**



## Save changes

Pressing the button **Back in the menu**  (or after no more than 2 minutes after the last entry) ends the menu **Settings**.

Changes must be confirmed when exiting the menu.



## Menu settings

\* = Default setting

### Language

▶ **English \***

▶ **.....**

Additional menu pages can be opened by pressing the **arrow buttons**



- ▶ Select the desired language by tapping the light bar.

### Date

**(Default setting)**

The date can be set by tapping the light bar (hold for fast forward).

Confirm entry with **OK**.

### Time

**(Default setting)**

The time can be set by tapping the light bar (hold for fast forward).

Confirm entry with **OK**.

### Daylight savings / standard time

▶ **On \***

▶ **Off**

The automatic change of the time display to daylight savings time can be turned off.

### Display programme time

▶ **Duration \***

The display shows the remaining time of the programme.

▶ **End**

The display shows when the programme will be finished.

### Brightness display

▶ **50 \***

The background light intensity can be continuously adjusted from 20 to 100 % (hold bar for fast forward).

Confirm entry with **OK**.

### Signal tone volume

▶ **Off**

▶ **Volume 1**

▶ **Volume 2**

▶ **Volume 3 \***

▶ **Volume 4**

▶ **Volume 5**

The signal tone can be adjusted in 5 steps or set on silent.

### Button tone

▶ **On \***

▶ **Off**

The button tone can be turned off.

## Extra rinse

- ▶ **Off \***
- ▶ **On**

Additional rinsing improves the rinse result in soft water areas or for allergy sufferers.

The selected setting affects all washing programmes until the next change of the settings.

## Water level washing

- ▶ **Normal \***
- ▶ **Increased**

If the function is set to «Increased» the water level is higher during washing in all washing programmes.

## Water level rinse

- ▶ **Normal \***
- ▶ **Increased**

If the function is set to «Increased» the water level is higher during rinsing in all washing programmes.

## Skin care

- ▶ **Off \***
- ▶ **On**

If the function is set to «On» all washing programmes have two additional rinse cycles, which reduces skin allergies.

## Soap wash programme

- ▶ **Off \***
- ▶ **On**

A programme sequence optimised for the use of soap detergents by using and extra rinse cycle to more thoroughly rinse out the soap detergent.

The selected setting affects all washing programmes until the next change of the settings.

## Spin speed

- ▶ **Not reduced \***
- ▶ **Reduced**
- ▶ **Reduced +**

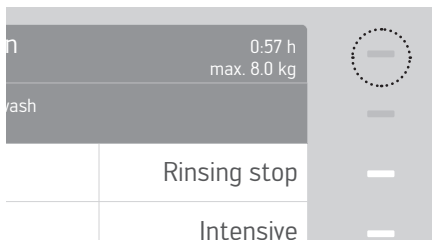
The spin speed can be reduced by two levels for all wash programmes.

## Child lock

- ▶ **Off \***
- ▶ **On**

The child lock is to prevent accidental starting, changing or deletion of a programme by small children.

## Input with child lock activated



- ▶ Hold the **light bar in the upper right** pressed down (**is not lit!**).
- ▶ At the same time press the desired button.

## Switch off the machine

Settings for switching of the machine automatically:

- ▶ **Off**  
The machine always remains switched on.
- ▶ **On**  
The machine turn off automatically after the programme has ended or when no further action is taken after turning the machine on.
- ▶ **Standby+ \***  
A few minutes after the programme has ended or when no further action is taken after turning the machine on, all displays turn off.

Power consumption is reduced to an absolute minimum, while the safety functions remain activated.

Recommended for machines without an aquastop device (water intake hose with overflow protection)

## ▶ Standby

No function.

(Only for machines with payment systems)

---

## Waking up machine

- ▶ Press button **On / Off**  .

## Crease protection

- ▶ **Off**
- ▶ **30 min \***
- ▶ **6 h**  
At the end of the programme a crease protection phase (loosening up of laundry) for 30 minutes or 6 hours can be set.

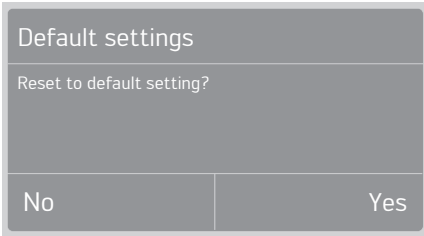
## Automatic door opening

- ▶ **Off \***
- ▶ **On**  
If this function is switched on, the door will open automatically at the end of the programme.



## Default settings

The settings can be reset to default (state as delivered).



- ▶ Confirm the reset with **Yes**.  
All settings are reset to default.

## Cool down

- ▶ **Off \***
- ▶ **On**

Damage to older drains can be prevented by adding cold water to the boil wash cycle at the end of the washing process. To prevent creasing, easy-care programmes are always cooled down, regardless of the selected setting here.

## Reduced mains power

- ▶ **No \***
- ▶ **Yes**

If the connected load is reduced, the programme times will be extended accordingly.

No = 400 V 2N ~ 4,0 kW / 10 AT

Yes = 230 V 1N ~ 2,1 kW / 10 AT

# Cleaning and Maintenance

---

## Cleaning the machine

### **Caution**

Danger of electric shock!

- ▶ Switch off the power supply to the machine before cleaning.
- ▶ Under no circumstances spray the machine with water.
- ▶ Do not use a steam cleaner.

---

### **Notice**

Solvents can damage parts of the machine, produce poisonous vapour and carry the risk of explosion.

Do not use cleaning agents containing solvents.

- 
- ▶ Do not use abrasive cleaning agents.
  - ▶ Never scratch or scrape with sharp objects.
  - ▶ Casings and control areas should only be cleaned with soap or a commercially available, solvent-free, non-abrasive cleaning product.

---

### **Notice**

- ▶ Never use steel wool!
- 

## Cleaning the drum

- ▶ Rust marks caused by metal parts standing still for lengthy periods can be removed with a chlorine-free cleaning product (look at the description of the ingredients on the pack).

## Descaling the machine

Lime scale formation depends largely on the hardness of the water. If the correct amounts of detergent are used, descaling is no longer necessary in general. If you do, however, wish to descale the machine, follow the manufacturer's instructions on the packet.

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### **Notice**

Descalers contain acids, can attack parts of the machine and cause discoloration of laundry.

---

## Check water supply hose

To avoid water damage, we recommend having this checked by a specialist after around 5 years of fault-free operation.

## Frost protection

If your washing machine is in a room susceptible to frost, all residual water must be removed from the detergent pump and the water supply and drain hoses immediately after use.

## Emptying the water supply hose

### Notice

Decrease the pressure in the inlet hose before unscrewing it:

- ▶ Turn the water tap off.
- ▶ Select any programme, start it and end it again after approx. 40 seconds. As a result, the water pressure in the hose can be reduced.

### Without aquastop

- ▶ Switch off the power supply.
- ▶ Screw off the supply hose at the tap.
- ▶ Let the water run into a bowl.
- ▶ Screw the hose back onto the tap.

### With aquastop (option)

- ▶ Switch off the power supply.
- ▶ Screw off the supply hose at the tap.
- ▶ Hold the hose as high as possible.
- ▶ Select any programme, start it and end it again after approx. 40 seconds. This way the water drains from the hose into the washing machine.
- ▶ Screw the hose back onto the tap.

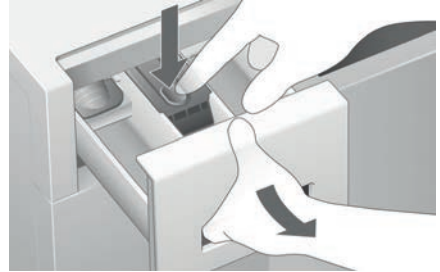
## Emptying the drain pump

See **Emergency emptying**.

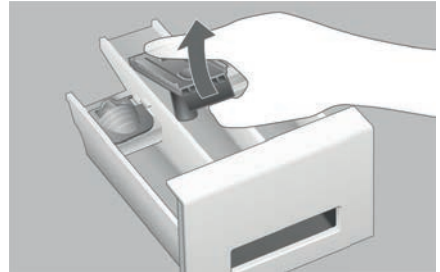
## Cleaning the detergent drawer


### Removing the detergent drawer

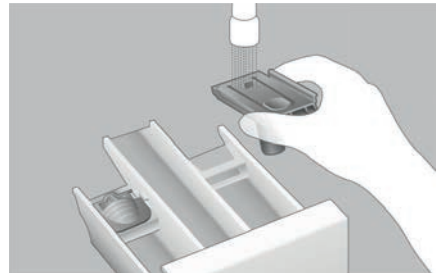
The drawer can be pulled out completely by pressing lightly on the coloured tab in the middle compartment.



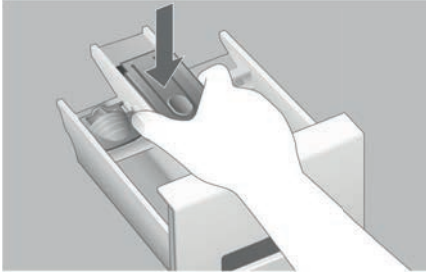
### Cleaning the inside (weekly)



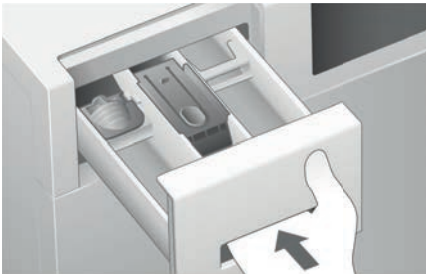
- ▶ Release the blue insert in **compartment**  by lightly lifting it up and take it out of the detergent drawer.



- ▶ Clean the insert and the detergent chambers under running water.



- ▶ Replace the insert into the middle compartment.



- ▶ Replace the detergent drawer in the machine.

## Emergency emptying

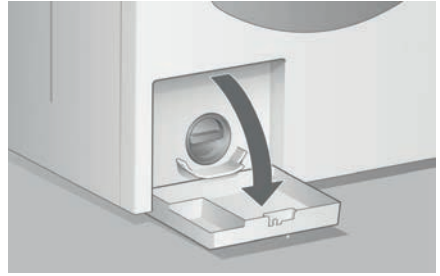
Emergency emptying is necessary if:

- ▶ The error message **Check drain** appears.
- ▶ The pump is blocked by a foreign body (e.g. buttons, paper clip, fluff).
- ▶ The water cannot be pumped out.

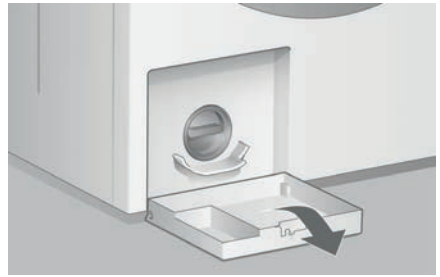
### **Warning**

Risk of injury!

- ▶ Switch off the power supply and turn off the water tap.



- ▶ Open the maintenance hatch at the machine front.

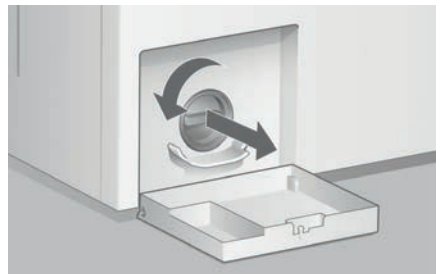


- ▶ Remove the flip cover from the machine and use it for catching the draining water.

### **Warning**

Risk of scalding!!

When washing at high temperature the suds may be very hot. Let the suds cool down before draining!



- ▶ Unscrew the pump cover stepwise until the water starts draining out.

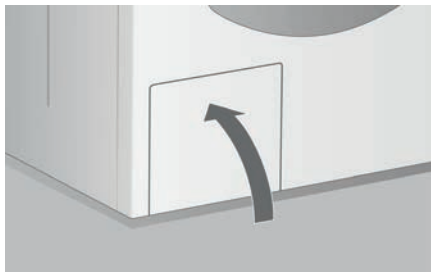
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## Notice

Up to 20 litres of water can drain from the machine during emptying! Loosen the pump cover carefully and step by step.

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- ▶ Once all the remaining water is drained, the pump cover can be unscrewed completely.
- ▶ Clean the pump interior. Remove foreign bodies and deposits of fluff. It must be possible to rotate the pump.
- ▶ Screw on the pump cover.



- ▶ Close the maintenance hatch.
- ▶ Switch the mains power back on.
- ▶ Select any washing programme and end it immediately as soon as the water inlet stops. This procedure prevents detergent from flowing unused into the drainage system at the next wash.

## Cleaning the filters in the water inlet

The filters in the water inlet may get plugged.

Check and clean the filters if:

- ▶ The error message **Check water inlet** appears.
- ▶ Insufficient water flows into the appliance when the tap is turned on.

---

### Notice

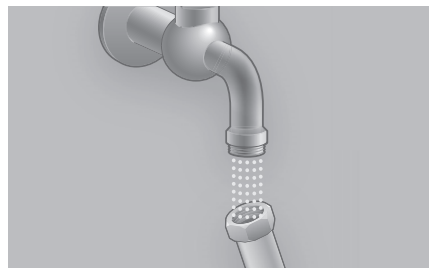
Decrease the pressure in the inlet hose before unscrewing it:

- ▶ Turn the water tap off.
- ▶ Select any programme, start it and end it again after approx. 40 seconds. As a result, the water pressure in the hose can be reduced.

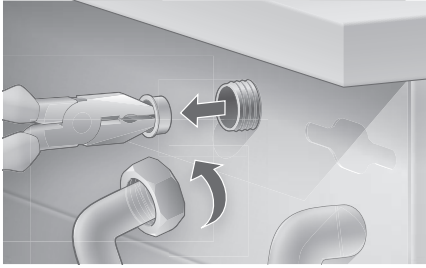
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### Without aquastop

- ▶ Screw off the supply hose at the tap.
- ▶ Rinse out the filter under running water.



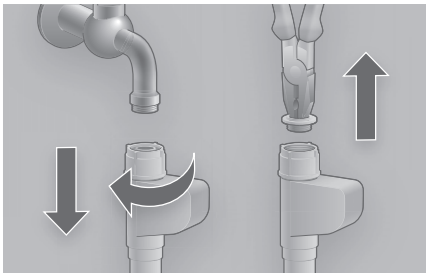
- ▶ Connect the hose again.
- ▶ Unscrew the other end of the hose from the back of the machine.



- ▶ Pull out the filter using a pair of long nose plier and rinse it out under running water.
- ▶ Reinsert the filter and connect the hose again.
- ▶ Briefly turn the water tap on and make sure that no water escapes.
- ▶ Turn the water tap off.

### **With aquastop (option)**

- ▶ Switch off the power supply.
- ▶ Screw off the supply hose at the tap.



- ▶ Pull out the filter using a pair of long nose plier and rinse it out under running water.
- ▶ Reinsert the filter and connect the hose again.
- ▶ Briefly turn the water tap on and make sure that no water escapes.
- ▶ Turn the water tap off.

# Problems

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## **Warning**

**Improper repairs can result in severe accidents, damages and operation malfunctions!**

Do not make any changes, manipulations or attempt repairs using tools such as screwdrivers, etc.

### **ERROR MESSAGES ON THE DISPLAY**


#### **Child lock active**

- ▶ Hold the bar in the upper right (**is not lit!**) and at the same time press the desired button.

#### **Door open**

- ▶ Press the door until you hear the lock snap shut.
- ▶ Press the start button to start the programme.

The door cannot be locked despite another attempt.

- ▶ Press button **Open the door** .
- ▶ Check whether a piece of laundry is stuck in the door.
- ▶ Press the start button after you correct the malfunction.

#### **Check water inlet**

- ▶ Open the water tap, and press the start button.

Filter in water supply is blocked.

- ▶ Clean the filter (see **Cleaning and Maintenance / Cleaning the filters in the water inlet**).
- ▶ Press the start button after you correct the malfunction.

Interruption in water supply.

#### **Check drain**

- ▶ Check whether the drain hose is clogged.
- ▶ Press the start button after you correct the malfunction.

Foreign bodies block the drain pump.

- ▶ Clean the pump (see **Cleaning and Maintenance / Emergency emptying**).
- ▶ Press the start button after you correct the malfunction.

The water drain at the installation site is clogged.

- ▶ Carry out an emergency emptying (see **Cleaning and Maintenance / Emergency emptying**) and clean the drain siphon (built-in siphon).
- ▶ Press the start button after you correct the malfunction.

	<ul style="list-style-type: none"> <li>▶ The position of the drain hose is too high. The maximum pumping height is 1 m above ground.</li> </ul>
<b>Insufficiently balanced</b>	<p>The laundry could not be spun due to excessive unbalanced weight.</p> <ul style="list-style-type: none"> <li>▶ Press the light bar next to <b>Continue</b> to restart rinsing.</li> </ul>
	<p>The laundry could not be spun despite pressing the light bar next to <b>Continue</b>.</p> <ul style="list-style-type: none"> <li>▶ Open the door and redistribute the load.</li> <li>▶ Press the light bar next to <b>Continue</b> again.</li> </ul>
	<p>The laundry could not be spun, even after loosening.</p> <ul style="list-style-type: none"> <li>▶ Press the light bar next to <b>Cancel</b>. The wash programme will be stopped.</li> </ul>
	<p><b>Notice</b></p> <ul style="list-style-type: none"> <li>▶ Wash large and small laundry together.</li> <li>▶ Avoid loading the drum with one single heavy item.</li> </ul>
<b>Too much foam Programme extended</b>	<p>The washing machine has detected foam and taken adequate measures. The spinning cycle of the laundry could be completed.</p> <ul style="list-style-type: none"> <li>▶ In future, reduce the detergent quantity.</li> </ul>
<b>Too much foam Programme stopped</b>	<p>Due to extremely intensive foaming, the wash programme had to be aborted.</p> <ul style="list-style-type: none"> <li>▶ Repeat the wash programme without adding any detergent.</li> <li>▶ In future, reduce the detergent quantity.</li> <li>▶ If required use washing powder instead of liquid detergent.</li> </ul>
<b>Please wait, draining</b>	<p>Too much water is in the washing machine. Water is pumped off.</p> <p>A lot of foam is visible in the door glass: Foaming is too intensive.</p> <ul style="list-style-type: none"> <li>▶ In future, reduce the detergent quantity.</li> </ul>



## ERROR MESSAGES F --

«Error F--»  
is displayed

- ▶ Acknowledge the error message with **OK**.  
Machine restarts.
- ▶ Press the door until you hear the lock snap shut.
- ▶ Select a programme again and press button **START**.


«Error F--»  
is displayed again  
despite programme  
restart

- ▶ Acknowledge the error message with **OK**.
- ▶ Interrupt the power supply for one minute (switch the main switch off and on again). As soon as the display lights, the appliance is again ready to operate.
- ▶ Press the door until you hear the lock snap shut.
- ▶ Select again a programme and press button **START**.

«Error F--»  
is displayed again  
after interruption  
of the power supply

- ▶ Note the error message.
- ▶ Close the water tap and switch off the power supply.
- ▶ Contact customer service (see **Customer service**).

## MACHINE OPERATION

Machine does not  
start when pressing  
the On / Off   
button

- ▶ Check whether the mains power is switched on (wall / plug).
- ▶ Check whether all the fuses are intact or the safety switch has tripped.

Mains blockage (generally at noon).

- ▶ Operate the machine after the mains blockage has ended.
- ▶ If the machine does not start despite correct power supply, contact customer service.

The washing machine  
does not start

- ▶ Press button **START**.
- ▶ If the programme does not start despite pressing the start button, contact customer services.

### Notice

When time preset is activated, the programme starts only at the pre-selected time.

---

## Loading door cannot be opened

Wait until the message **Programme end** is displayed.

- ▶ Press button **Open the door** .

Option **Rinsing stop** selected.

- ▶ To proceed further, see **Washing / Ending programme with rinsing stop**.

Defect appliance.


- ▶ Contact customer service (see **Customer service**).

Power outage.

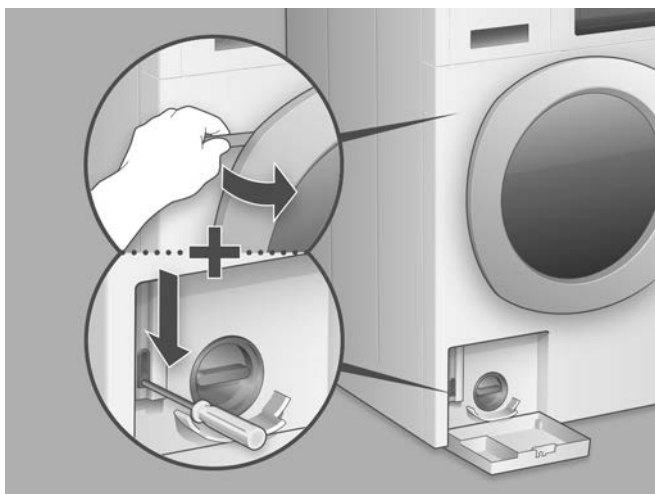
- ▶ Open the loading door manually.

---

## Open the loading door manually

 **Warning**  
Hot wash water!  
Danger of burns!  
Drain the machine  
before manual  
opening!

- ▶ Ensure that the drum stopped turning.
- ▶ Close the water tap.
- ▶ Switch off the power supply.
- ▶ Carry out an emergency emptying (see **Cleaning and Maintenance**).



### Unlock door and pull open

Perform the following operations simultaneously:

- ▶ Pull the black emergency opener with a screwdriver downwards and keep it pulled.
- ▶ Lever open the door with the green tool or a narrow object at the same time (do not use metal!).

---

### Notice

If the door is closed with the power off, it is locked again and the procedure must be repeated.

---

## WASHING AND WASHING RESULT



### Detergent residue in the detergent drawer

#### Damp or clumpy detergent

The blue **lid A** in **compartment II** is in the position for liquid detergents.

- ▶ Push the lid up and back.
- ▶ Dry the detergent drawer before adding detergent.
- ▶ Add the detergent to the dosing aid and put it in the drum with the laundry.

Viscous conditioner will remain in the conditioner **compartment** .

- ▶ Dilute the viscous conditioner with approx. 100 ml water and fill it in the conditioner **compartment** .
- ▶ Do not exceed the mark «max».
- ▶ Clean the conditioner **compartment**  (see **Cleaning and Maintenance**).

### Water not visible during wash

No error.

- ▶ The water is below the visible level in the machine.

### Laundry does not get clean

Laundry was soiled more heavily than expected.

- ▶ Remove stains from the laundry before washing.
- ▶ Select the maximum permitted temperature for the fabric.
- ▶ Select a stronger wash programme.
- ▶ Dose detergent sufficiently (follow manufacturer's information).

### Detergent residue on the washing

Detergent residues are not due to poor rinse performance of your washing machine. Insoluble residues found in a few phosphate-free detergents tend to be deposited as pale specks on laundry.

- ▶ Dry and brush off the detergent residue or repeat the whole rinse process immediately (see **Programme survey / Main menu programmes / Rinse, Spin**).
- ▶ Use a wash programmes with a higher water level (easy care) and liquid detergent.
- ▶ Activate the **Extra rinse** function.

### Grey residue (soap scum) on the washing

The normal amount of detergent is not always sufficient for soiling from ointments, fats or oils.

- ▶ Increase the amount for the next wash.
- ▶ Select the maximum permitted temperature for the fabrics.

<b>Grey stains on the washing</b>	<p>Grey stains may be caused by cosmetics or fabric softener and may have appeared on the laundry outside the machine before washing.</p> <ul style="list-style-type: none"> <li>▶ Some stains can be washed out after soaking in liquid detergent.</li> </ul>
<b>The laundry is hard and / or like a board:</b>	<ul style="list-style-type: none"> <li>▶ Use a conditioner for the next wash, if the laundry is dried in the air after washing.</li> <li>▶ Dry the laundry in a tumble drier.</li> </ul>
<b>Drum and tank are dirty (scraps of paper, oil etc.)</b>	<p>Tissues or similar objects have not been removed from the laundry before washing.</p> <ul style="list-style-type: none"> <li>▶ Clean drum and tank with the <b>70° Autoclean</b> wash programme (without laundry and detergent).</li> </ul>
<b>Laundry smells unpleasant (e.g. of sweat or rottenness)</b>	<p>Laundry has been washed too long at only a low temperature and contains too many odour-producing germs.</p> <ul style="list-style-type: none"> <li>▶ Wash the laundry at 60 °C or the maximum permitted temperature for the textiles from time to time, and use heavy-duty detergent (with bleach).</li> <li>▶ Use special low-temperature detergent when you wash at 20 / 30 °C.</li> </ul>
<b>Odour accumulation in the machine</b>	<p>Odour-producing germs have accumulated in the washing machine or in the drain.</p> <ul style="list-style-type: none"> <li>▶ Run the maintenance programme <b>70° Autoclean</b> from time to time to clean the machine and drain (without laundry and detergent).</li> </ul>
<b>Laundry mats (pilling)</b>	<p>Delicates such as wool can mat due to the high mechanical load.</p> <ul style="list-style-type: none"> <li>▶ Select a gentle, special programme suitable for delicates in the future.</li> </ul>
<b>Tear and hole formation, fibre wear of the laundry</b>	<p>It might be a case of normal wear or mechanical damage of textiles, which already existed before washing.</p> <ul style="list-style-type: none"> <li>▶ Remove any foreign articles from the laundry before washing.</li> <li>▶ Close hooks, zips and Velcro closures before washing.</li> <li>▶ Wash sensitive laundry in a mesh bag.</li> </ul>

## FOAM AND LEAKAGE

**Some foam can be seen at the programme end**

Some detergents tend to produce more foam, which does not affect the rinse results.

**Too much foam visible during washing**

Too much detergent was used.

- ▶ Mix approx. 20 ml conditioner and approx. ½ litre water.
- ▶ Add the conditioner-water mixture into **compartment II** of the detergent drawer. Repeat procedure, if necessary.
- ▶ Reduce detergent dose in the future.

**Foam fills the entire drum**

**Foam leaks from the detergent drawer during washing, rinsing or spinning**

Too much detergent was used.

- ▶ Stop the programme by pressing button **Cancel**. There are two possibilities to solve the problem:

### Option A

- ▶ Stop the programme by pressing button **Cancel**.
- ▶ Mix approx. 30 ml conditioner and approx. 1 litre water.
- ▶ Start the previously selected wash programme (it may take several minutes until the machine is released for the selection of a new programme).
- ▶ At the end of the water inlet, switch immediately forward to **Finishing rinse** by pressing **Forward**.
- ▶ Add the conditioner-water mixture into **compartment I** of the detergent drawer.  
The programme should now end as usually and the spinning process should take place.
- ▶ Afterwards repeat the wash programme, however without any detergent.

### Option B

- ▶ Wait for approx. 1 hour.  
Then press button **START** and switch immediately forward to **Spin** by pressing **Forward**. Usually the laundry will be spun and the programme finishes as usual.
- ▶ Repeat the wash programme, however without any detergent.
- ▶ Reduce detergent dose in the future.
- ▶ If required use washing powder instead of liquid detergent.

<b>Puddles and /or water stains form on the floor</b>	<p>Too much detergent was used.</p> <ul style="list-style-type: none"> <li>▶ Reduce detergent dose in the future.</li> <li>▶ Check whether the supply and drain hose connections are watertight and have been effected properly.</li> </ul>
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## **SPINNING AND NOISE**

<b>Pump noise</b>	No error! Intake noise and «Emptying» noise by the detergent solution pump is normal.
<b>Repeated spinning</b>	The appliance detected an imbalance and is rectifying the imbalance by spinning repeatedly.
<b>Poor spin result</b>	<p>The machine has detected an imbalance that it was unable to rectify.</p> <p>If there are loads too low or critical laundry pieces, e.g., bath-room rugs, the laundry cannot be distributed sufficiently. In this case the spin speed is reduced in a targeted manner to protect the appliance from extensive stress.</p>
<b>Vibrations during washing and spinning</b>	<p>The transport securing devices have not been removed.</p> <ul style="list-style-type: none"> <li>▶ See the information in the Installation Instructions.</li> </ul>
<b>«Machine movements» during spinning</b>	<p>Machine feet were not locked when installing the machine.</p> <ul style="list-style-type: none"> <li>▶ Relevel the machine with a spirit level and securely lock the feet as prescribed in the Installation Instructions.</li> </ul>
<b>Programme duration extended</b>	<p>No error.</p> <ul style="list-style-type: none"> <li>▶ The machine has recognised foam and implemented remedy.</li> <li>▶ The machine has recognised imbalance and implemented remedy.</li> <li>▶ The machine has recognised excessive soiling and/or too turbid rinse water and has extended the programme.</li> </ul>

# Technical specifications

## Product data sheet for household washing machines

according to EC regulation no. 1061 / 2010

### Schulthess

Model name / identifier	Spirit 520	
Nominal capacity <sup>1)</sup>	kg	8,0
Energy efficiency class A+++ (highest efficiency) to D (lowest efficiency)		A+++
Annual energy consumption <sup>2)</sup>	kWh / year	135
Energy consumption of the standard programme		
«Cotton 60°C» at full load	kWh	0,76
«Cotton 60°C» at partial load	kWh	0,60
«Cotton 40°C» at partial load	kWh	0,39
Power consumption in off-mode	W	0,15
Power consumption in on-mode <sup>3)</sup>	W	0,15
Weighted annual water consumption <sup>4)</sup>	litres / year	9900
Spinning efficiency class A (highest efficiency) to D (lowest efficiency)		A
Maximum spin speed <sup>5)</sup>	rpm	1500
Residual moisture <sup>5)</sup>	%	44
Standard programmes, to which the information in the label and the data sheet relates <sup>6)</sup>	☐	Cotton 60°C ☐ Cotton 40°C
Programme duration of the standard programme		
«Cotton 60°C» at full load	min	169
«Cotton 60°C» at partial load	min	169
«Cotton 40°C» at partial load	min	169
Duration of the left-on mode <sup>7)</sup>	min	5
Airborne acoustical noise		
Washing <sup>8)</sup>	dB(A) re 1 pW	47
Spinning <sup>8)</sup>	dB(A) re 1 pW	72
Built-in unit		–

<sup>1)</sup> In kg Cotton for the standard programme «Cotton 60°C» or the standard programme «Cotton 40°C», respectively with full load, with the lower value being relevant.

<sup>2)</sup> Based on 220 standard wash cycles for 60 °C and 40 °C cotton programmes with full load and partial load as well as the consumption of operating modes with low power consumption.

The actual power consumption depends on how the machine is used.

<sup>3)</sup> 3.76 W if the machine is not configured to automatically turn off.<sup>4)</sup>

Based on 220 standard wash cycles for 60 °C and 40 °C cotton programmes with full load and partial load. The actual power consumption depends on how the machine is used.

<sup>5)</sup> For standard programme «Cotton 60°C» with full load or for standard programme «Cotton 40°C» with partial load, with the lower value being relevant, as well as residual moisture in standard programme «Cotton 60°C» with full load or for standard programme «Cotton 40°C» with partial load, with the higher value being relevant.

<sup>6)</sup> These programmes are suitable for cleaning normally soiled cotton textiles and are most efficient regarding combined energy and water usage.

<sup>7)</sup> If the washing machine is equipped with power control.

<sup>8)</sup> In the standard programme «Cotton 60°C» with full load.

## Customer service

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Schulthess Maschinen AG produces washing machines and dryers of outstanding quality with proverbial durability. Hence, at Schulthess, components, modules and materials are carefully selected, tested and assembled.

Should error messages or faults nevertheless occur, you will find much helpful information on our website «[www.schulthess.ch/en/customer-service](http://www.schulthess.ch/en/customer-service)» such as detailed operating instructions, tips and tricks as well as replies to the most frequently asked questions (FAQs).

Our service number 0844 888 222 can be reached from Monday to Friday from 08:00 to 12:00 hrs and 13:00 to 17:00 hrs.

Please make a note of the error message F -- and the product and appliance number of your washing machine. You will find this information on the type label inside the opened door.

Do make use of the registration of your machine or extension of the guarantee as they bring you many benefits. You can also find the corresponding information at **[www.schulthess.ch/en/customer-service](http://www.schulthess.ch/en/customer-service)**

## Warranty

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After the normal warranty period of 2 years has expired, it is possible to extend the warranty. We are happy to send you the requested documents.









### Headquarters and Production






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## Brief instruction

Follow the safety instructions in this manual!

- ▶ Turn on the power switch and open the water tap.
- ▶ Press button **On / Off** .
- ▶ Press button **Open the door** .
- ▶ Select the programme and the programme options (go backwards or forwards with the **arrow buttons**  ).
- ▶ Add laundry and close the loading door.
- ▶ Pull the detergent drawer out.
- ▶ Add detergent and close the detergent drawer until you feel it lock.
- ▶ Press button **START** .

### At the end of the programme

- ▶ Press button **Open the door**  and remove the laundry.

### At the end of the washday

- ▶ Clean the detergent drawer.
- ▶ Leave the door open.



WA14 EFH

The machine software uses FreeRTOS, version 7.6.0 (www.freertos.org) © Real Time Engineers Ltd.