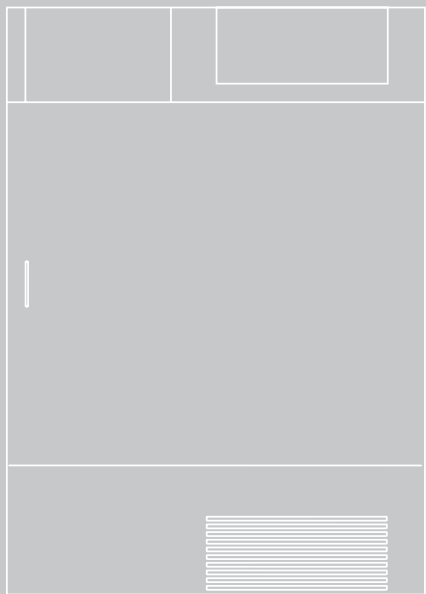


Operating instructions  
Heat pump dryer

Spirit 660



## 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.



indicates a fire hazard.

## **Dear Customer**

We are pleased that you have chosen a Schulthess dryer.

Your new dryer is the result of many years of development work.

The highest quality requirements, both in development and manufacture, guarantee along lifetime.

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

Sparing use of energy and short drying times help to ensure that you can use your dryer as economically as possible.

Please read these instructions carefully to enable you to use all the possibilities and advantages of your new dryer.

Please note in particular the safety informations.

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

**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 dryer. 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 dryer is suitable exclusively for the drying of household textiles. 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).

- ▶ 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 fire!

Risk of poisoning!

Damage to goods and equipment!

The device contains the environmentally friendly, but flammable refrigerant R 290. Improper disposal can lead to fire and poisoning.

- ▶ Properly dispose of the device and do not damage the refrigerant circuit pipes.
- ▶ Always ensure that the air vent on the dryer remains unobstructed.
- ▶ Ensure adequate ventilation in the room.
- ▶ Keep open flames and sources of ignition away from the device.

 **Warning**

Risk of injury!

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

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

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

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

When a drying cycle is stopped early, the heat and moisture of the laundry can cause burns when comes in contact with the skin.

- ▶ Appropriate hand protection is therefore to be worn.
- ▶ Remove the laundry quickly and spread it out so that the heat can be given off.

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

 **Warning**

Risk of fire!

Items containing heat sensitive substances can ignite during the drying process.

- ▶ Never dry laundry in your dryer that has been cleaned with industrial chemicals or treated with flammable solvents, such as stain removers, benzene etc.
- ▶ Wash laundry items soiled with cooking oil, acetone, alcohol, gas, petroleum, kerosene, stain remover, turpentine, wax or wax remover, in warm water with extra laundry detergent.

- ▶ Do not dry textiles in the dryer which have been in contact / covered with setting lotion, nail polish remover or similar agents.
- ▶ Do not dry items made of foam rubber (latex foam rubber), shower caps, waterproof textiles, rubberised articles, as well as garments or pillows filled with foam rubber flakes in the dryer.
- ▶ Remove all objects, such as e.g. lighters and matches.
- ▶ Fabric softeners, or similar products, should be used as specified by the fabric softener instructions.

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.

## 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 dryer.
- ▶ Activate the child lock, if necessary.

## 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.
- ▶ When installing as a washer-dryer tower combination, use a stacking kit to secure the dryer.



## Observe when drying

The fluff filters must be inserted when operating this machine.

- ▶ Never operate the machine with damaged fluff filters.
- ▶ Keep the area surrounding the dryer free of dust and fluff.
- ▶ The fluff filters must be cleaned regularly. Fluff may compromise and destroy the heat exchangers.

The maximum load is 8 kg of dry textiles.

- ▶ Dry clean laundry in the dryer only.
- ▶ Before starting a programme, make sure that there is no foreign object in the drum.
- ▶ Keep pets away from the machine.

A drying procedure should always end with fully completed cooling-off, so that the laundry items remains at a temperature that does not damage them.

- ▶ If a drying cycle is ended prematurely without cooling-off, all of the laundry must be removed quickly and spread out so that the heat can be given off.  
Caution: when a drying cycle is stopped early, the heat and moisture of the laundry can cause burns when it comes into contact with the skin. Make sure to wear appropriate hand protection.

# 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.

# Tips for drying

---

## Sorting the laundry

Follow the care symbols in the fabrics. To achieve even drying results, sort the laundry by fabric type and desired level of dryness.



Dry at normal temperature



Dry at low temperature



Do not tumble dry

Dry wool or textiles containing wool with the special programme **Wool Finish** only (risk of felting).

---

## Notice

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

---

## Preparing the laundry

- ▶ Do up all zips, hooks and eyes.
- ▶ Button up duvet covers and pillowcases. Tie together loose belts, apron strings etc.

## Drying the laundry

- ▶ Remove easy care laundry from the dryer in a slightly damp state if possible (**Slightly dry**) and allow to finish drying in the air. Over drying causes creases.
- ▶ Laundry which is still too damp after drying a load of widely varying fabrics can be dried further using the programme **Time drying**.
- ▶ Knitted fabrics, e.g. jersey underwear, can shrink slightly during drying. Do not use the **Extra Dry** programmes for these fabrics.
- ▶ Only dry delicate fabrics, such as silk and synthetic curtains, with the appropriate special programme (risk of creasing).
- ▶ For drying single pieces of laundry select the programme option **Express** or a **Timed drying** programme.

## Environmentally compatible drying

---

### Notice

Wringing wet laundry: waste of energy!

---

- ▶ Remove as much water as possible from the laundry before drying by spinning in a washing machine or spin dryer. The higher the spin speed, the shorter the drying time and lower the energy consumption.
- ▶ You should also spin easy care laundry.

---

### Notice

Overfilling affects the drying result and severely creases the laundry.

- ▶ Do not exceed the maximum load.
- 

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

- ▶ If possible, always load the dryer with the maximum load.

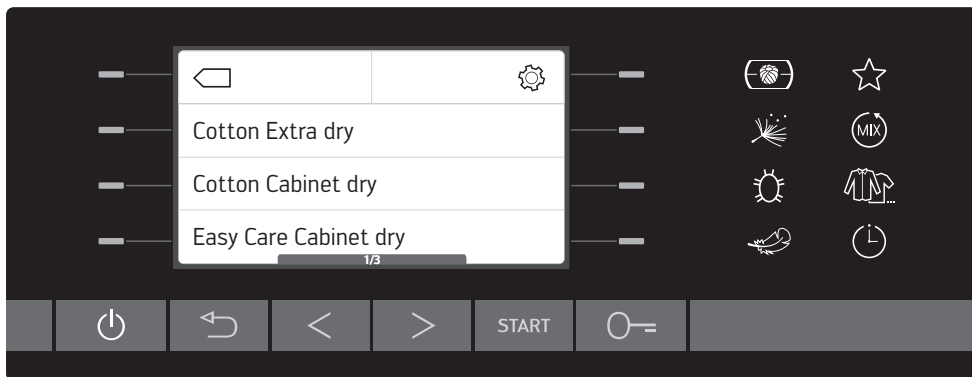
## Observe before first use

- ▶ Install the machine according to the installation instructions.
- ▶ Wipe the inside of the drum with a damp cloth.








# Machine description

---










## Display and buttons

-  On/ Off
-  Back in the menu
-  Scroll backwards
-  Scroll forwards
- START** Start programme
-  Open the door
-  Standard programme
-  Settings
- 1/3** Page number programme menu




## Programmes

-  Drying in the basket
-  Pollenclean
-  Mixed laundry

## Programme groupes

-  Favourites
-  Additional programmes

## Programme options


-  Antibac
-  Gentle plus
-  Time preset

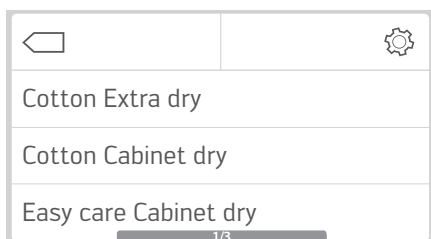
# Drying


## Preparing the appliance

- ▶ Check whether the fluff filters are in place (see **Drying / Clean fluff filters**).
- ▶ Switch on the power supply.


### 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

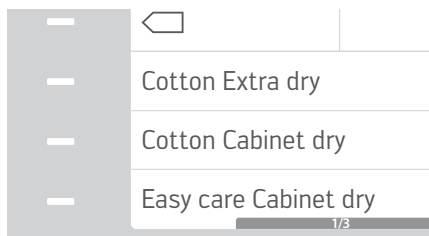
- ▶ Press button **Open the door** . The loading door springs open.

### Child lock active

See  **Settings / Child lock**.

- ▶ The door can be opened manually at any time by pressing against the door near the locking latch.

## Selecting programme



- ▶ Select the desired programme by tapping the light bar. The display shows the programme selected with programme duration, maximum load as well as additional selectable options.

### Select programme options

The programme can be further adjusted to the particular characteristics of the laundry using the options (see chapter **Programme options**).



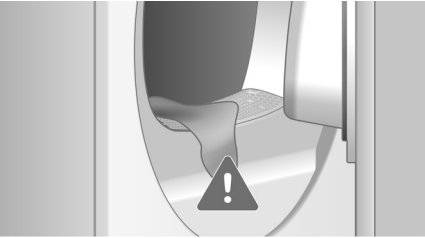
- ▶ Select the desired option/s by pressing the light bar or the corresponding symbol. Selected options change colour and are shown in the upper part of the display.
- ▶ If necessary, cancel the selection by tapping the light bar again.

## 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.



## Changing the programme before programme start

- ▶ Press button  **Back in the menu**.
- ▶ Select the programme and options.

## Starting the programme

- ▶ Press button **START**.

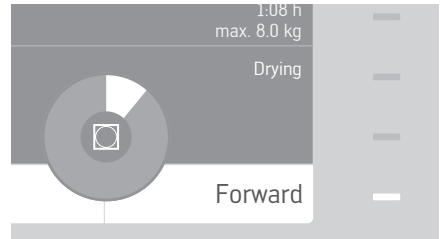
---

### Child lock active

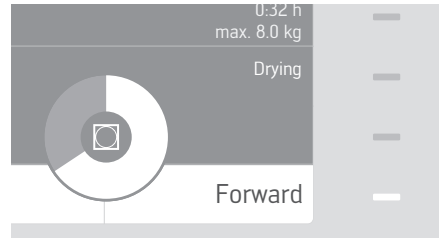
See  **Settings / Child lock**.

---

## Skipping to the next programme step



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



---

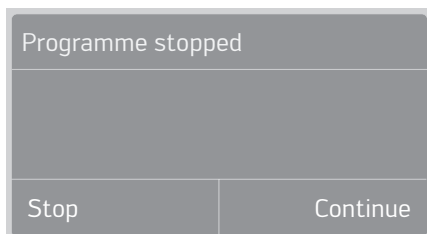
### Child lock active

See  **Settings / Child lock**.

---

## 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**.

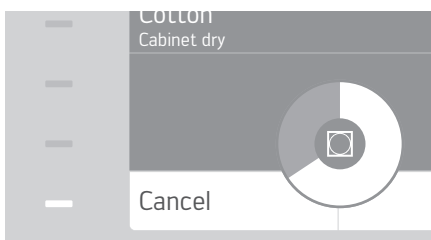
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### Child lock active

See  **Settings / Child lock**.

---

## Cancelling the programme



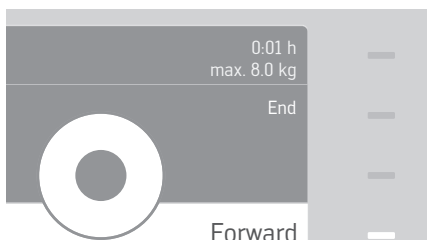
- ▶ Press the light bar next to **Cancel** until **End** is displayed.

---

### Child lock active

See  **Settings / Child lock**.

---



- ▶ After cancelling, remove washing immediately and spread it out so that it can cool down.

## Self-cleaning


The self-cleaning at the end of the programme prolongs the life-cycle of the machine and ensures drying results are good long-term.

- ▶ Try not to make a habit of cancelling the programme, as this also cancels the self-cleaning process.


---

### **Important**

Risk of damage to the equipment

- ▶ Do not open the door while **Self-cleaning**  is displayed.
- 

## Adding more laundry

- ▶ Press button **Open the door**  (**is not lit!**).

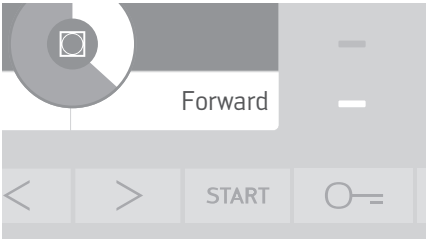
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### Child lock active

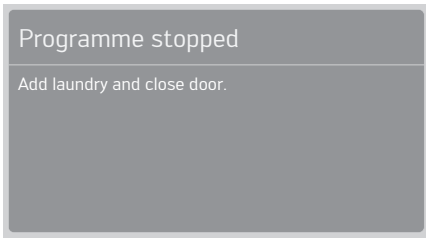
See  **Settings / Child lock**.

---





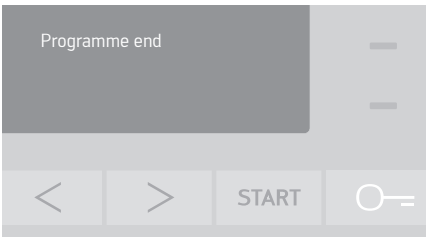
The programme is stopped.



- ▶ Follow the directions on the display.

## Programme end

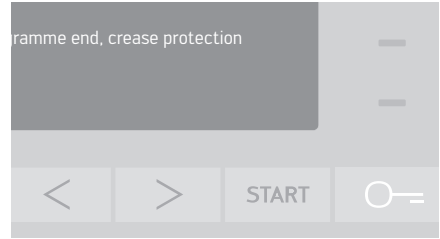
The programme end is shown.




When crease protection is turned on, the drum continues to turn in short intervals after programme end (see **Settings / Anti-crease**).

The door can be opened.

## Remove the laundry

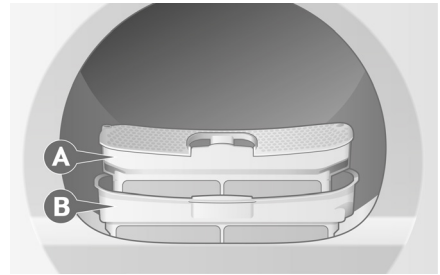


- ▶ Press button **Open the door** .
- ▶ Remove the laundry.
- ▶ Clean the fluff filters.

## Cleaning the fluff filters

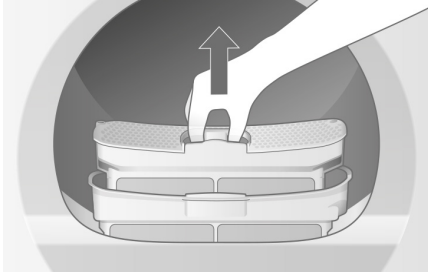
When fabrics are used, the fibres are rubbed (laundry fluff), which are released when the fabrics are dried, collecting in the fluff filters in the door opening.

Clogged fluff filters may affect the drying process.

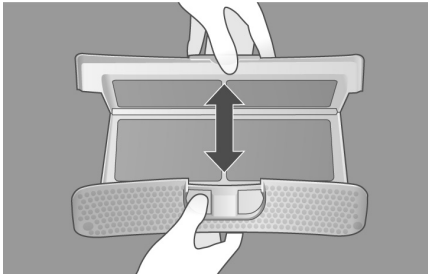


- ▶ Clean filter **A** and **B** regularly.

## Clean the fluff filter **A** after every drying programme



- ▶ Pull out the inner, fine filter **A** and swing it open.



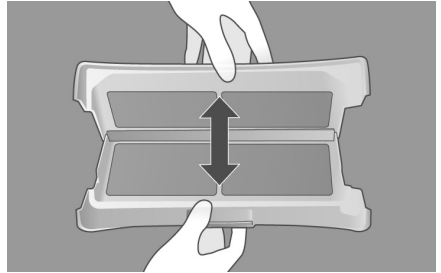
- ▶ Rub your hand over the inside of the filter to remove the fluff.
- ▶ Replace the fluff filter and make sure it is in the correct position.

### Notice

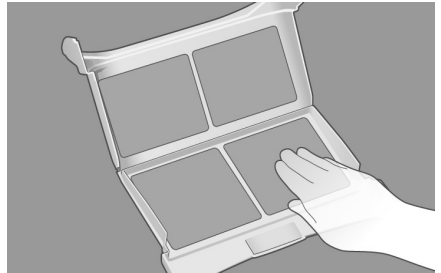
It may happen that a supposedly properly cleaned filter becomes impermeable, due to a fine, invisible coat remaining in the filter meshes.

- ▶ Pour a little water on to the inside of the filter. If it is impermeable, clean the filter with a brush under running water.

## Cleaning the filter **B** daily



- ▶ Pull out the outer coarse filter **B** and swing it open.



- ▶ Rub your hand over the inside of the filter to remove the fluff.
- ▶ Replace the fluff filter and make sure it is in the correct position.

## Descaling the fluff filters

If the coat cannot be brushed away, a commercial descaler spray must be used to dissolve it.


- ▶ Spray the descaler on the entire filter surface and leave it to take effect. In case of stubborn coats place one layer of kitchen roll onto the filter surface and spray descaler on it to ensure the filter is moist. Leave the descaler to take effect overnight. Then clean the filter under running water with a fine brush.

---

### **Notice**

- ▶ Never operate the machine with damaged fluff filters.  
Fluff filters are consumables and replacements can be ordered from our customer service department.
- 

## **Switching off the machine**

- ▶ Press button **On / Off**  until the display turns off.
- ▶ Unplug the machine, when not used for longer periods of time.

# Programme survey



 Always check the care symbols on the fabrics

h:min = Duration / rpm = Spin speeds / kWh = Power consumption (approximate values)

## Most efficient programme for cotton textiles




according to regulation (EU) no. 932 / 2012



The following standard programme (marked with ) is suitable for drying normally wet cotton textiles and is most efficient regarding the combined energy consumption.

		h:min	rpm	kWh
8,0 kg	<b>Cotton Cabinet dry</b> 			
	Terry towels, tea towels, hand towels, bed linen, underwear, cotton socks ▶ For laundry which will not be ironed	<b>2:28</b>	1000	1,49

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









## Cotton and linen

		h:min	rpm	kWh
8,0 kg	<b>Cotton Mangle moist</b>			
	Terry towels, tea towels, hand towels, bed linen, underwear, cotton socks ▶ For laundry which will not be ironed	<b>1:22</b> <b>1:13</b> <b>1:06</b>	1200 1400 1600	0,7 0,6 0,5
8,0 kg	<b>Cotton Iron damp</b>			
	Bed and table linen, towels, T-shirts, polo shirts, work wear ▶ For laundry to be ironed	<b>1:37</b> <b>1:27</b> <b>1:18</b>	1200 1400 1600	0,9 0,8 0,7
8,0 kg	<b>Cotton Slightly dry</b>			
	T-shirts, polo shirts, dresses, trousers, work wear, underwear ▶ For laundry which will not be ironed or only lightly ironed	<b>1:55</b> <b>1:42</b> <b>1:32</b>	1200 1400 1600	1,2 1,1 1,0

		h:min	rpm	kWh
8,0 kg	<b>Cotton Cabinet dry</b>			
	Terry towels, tea towels, hand towels, bed linen, underwear, cotton socks ▶ For laundry which will not be ironed	<b>2:09</b> <b>1:55</b> <b>1:42</b>	1200 1400 1600	1,3 1,2 1,1
8,0 kg	<b>Cotton Extra dry</b>			
	Towelling bathrobs and bed linen (no underwear or socks) ▶ For particularly thick or multilayered fabrics	<b>2:22</b> <b>2:07</b> <b>1:54</b>	1200 1400 1600	1,5 1,4 1,3

## Easy care laundry

Non-iron synthetic and mixed fibres and cotton with non-iron trim, e.g. viscose, cupro, modal, polyester

		h:min	rpm	kWh
4,0 kg	<b>Easy care Iron damp</b>			
 	Anoraks, covers ▶ For laundry to be ironed	<b>0:52</b> <b>0:44</b>	600 800	0,4 0,3
4,0 kg	<b>Easy care Slightly dry</b>			
 	Shirts, blouses, sportswear, bed and table linen, sweat suits ▶ For laundry which will not be ironed or only lightly ironed	<b>1:03</b> <b>0:53</b>	600 800	0,5 0,4
4,0 kg	<b>Easy care Cabinet dry</b>			
 	Trousers, dresses, skirts, shirts, blouses, corsetry, leggings, sportswear with large proportion of synthetic fibres ▶ For laundry which will not be ironed	<b>1:10</b> <b>0:59</b>	600 800	0,6 0,5
4,0 kg	<b>Easy care Extra dry</b>			
 	Trousers, dresses, skirts, shirts ▶ For particularly thick or multilayered fabrics	<b>1:19</b> <b>1:07</b>	600 800	0,7 0,6

## Time drying

h:min rpm kWh

7,0 kg

### Time drying



For extra drying time for multi-layer textlies (e.g. sleeping bags) or for drying single laundry items, such as for example terry towelling

▶ Time drying warm (10 min – 2 h 30 min)

–

–

–

1,4 kg

### Reconditioning



The laundry is aired without adding additional temperature

▶ Time drying cold (10 min – 1 h 30 min)

–

–

–



## Mixed laundry

h:min rpm kWh

4,0 kg

### Mixed laundry Cabinet dry



For mixed laundry made of cotton and easy care textlies (e.g. sportswear and terry towelling)

▶ For laundry which will not be ironed or only lightly ironed

**1:17**

800

0,8



## Additional programmes

h:min rpm kWh

3,0 kg

### Shirts, blouses Iron damp



Shirts and blouses (max. eight pieces of clothing)

▶ The programme reduces creasing, is gentle to the laundry and facilitates ironing

**0:56**

800

0,6

4,0 kg

### Jeans Cabinet dry



Jeans

▶ Jeans are dried completely

**2:01**

600

1,1

**1:52**

800

1,0

3,2 kg

### Synthetics Cabinet dry



Silk, delicates, lingerie, curtains and the likes

**1:05**







600

0,5

**0:55**

800

0,4

		h:min	rpm	kWh
2,6 kg	<b>Wool finish Fleece dry</b>			
	Machine washable fabrics made of or containing wool Wool mark stating «non-felting» or «machine washable» ▶ Remove the laundry immediately after the programme has ended and place it on a flat terry towel for drying ▶ The laundry becomes more fluffy, but is not dried	<b>0:05</b>	800	0,1
3,0 kg	<b>Sportswear, outdoor Cabinet dry</b>			
	Sports and leisure jackets, weather gear, ski wear	<b>1:12</b>	800	0,6
2,4 kg	<b>Down, pillows Time drying</b>			
	Down textiles (e.g. jackets, coats, pillows and light blankets) ▶ Time drying warm (50 min – 2 h 30 min)	–	–	–
8,0 kg	<b>Terry towels Extra dry</b>			
	Terry towels, bath towels, bathrobes etc. made of cotton	<b>2:21</b> <b>2:07</b> <b>1:54</b>	1200 1400 1600	1,5 1,4 1,3
3,0 kg	<b>Impregnating Extra dry</b>			
	Newly impregnated sports and leisure jackets, weather gear, ski wear ▶ Machine drying sets the impregnant ▶ Dry down ski jackets and pants inside out	<b>1:19</b>	800	0,9
1,6 kg	<b>Silk Cabinet dry</b>			
	Blouses, shirts, pyjamas ▶ Remove textiles immediately after programme end since silk tends to crease	<b>1:04</b> <b>0:54</b>	600 800	0,7 0,6



## Drying in basket

		h:min	rpm	kWh
4,0 kg	<b>Drying in basket Time drying</b>			
	Pullovers, socks und accessories made of wool. Sports shoes, caps, bicycle helmets, cuddly animals, toys, etc. ▶ Time drying warm 10 min – 2 h 30 min ▶ Use: see <b>Special programmes / Drying in the basket</b>	–	–	–



## Pollenclean

h:min rpm kWh

1,0 kg

### Pollenclean



- Shirts, blouses, skirts, trousers (max. three pieces of clothing)  
Curtains (single)
- ▶ To remove pollen
  - ▶ Clean clothes which have only been worn briefly

**0:20**

—

0,1



# Special programmes

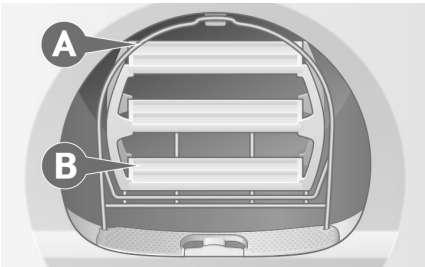
Pressing the symbol button the menu of the respective programme group is called up.

## Drying in the basket



Damp wool must be moved as little as possible as it tends to felt. Sports shoes may damage the drum due to their weight.

Using the basket allows for gentle drying without tumbling the individual machine-washable wool textiles, sports shoes made of synthetics / leather, caps, cycle helmets, fluffy animals, toys, etc.



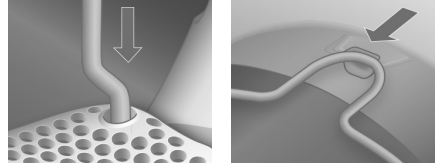
### **A** Basket

for drying shoes and accessories

### **B** Insert

for holding laundry items

## Insert the basket



- ▶ Insert the feet of the basket into the holders.
- ▶ Lean the handle against the top.

---

### Notice

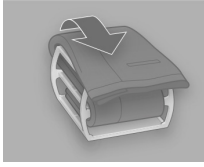
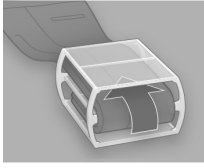
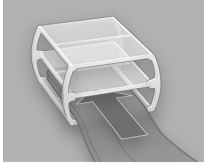
- ▶ The drum has to be empty!
  - ▶ Check the basket before inserting. Never use a damaged basket.
- 

## Adding laundry

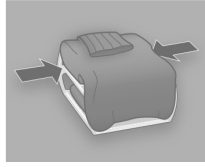
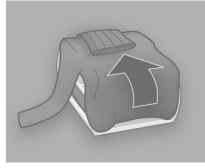
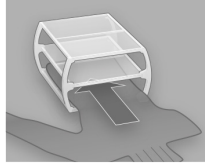


- ▶ Insert pieces of laundry fluffily, do not squeeze.
- ▶ The laundry must not make contact with the drum! Otherwise, pieces of laundry could be jammed and damaged.

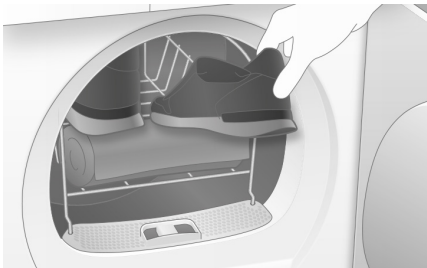
## Trousers / Skirts



## Pullovers



## Sports shoes and accessories



- ▶ The insert **B** is not used for sports shoes and accessories (caps, cycle helmets, fluffy toys, toys, etc.).
- ▶ Extensively pull out tongue of sports shoes.
- ▶ Remove shoelaces, inserted soles and / or heel cushions.

- ▶ Put rolled towel into the basket making an inclined surface. Put in the shoes with heels on towel.

---

### Notice

- ▶ Use the basket only for the special programme **Drying in the basket (Programme survey / Drying in the basket)**.
- 

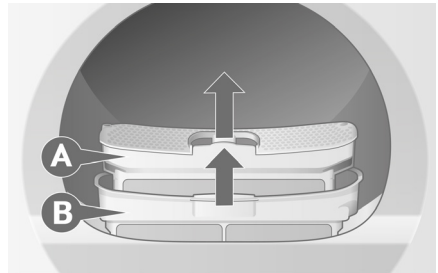
## Pollenclean



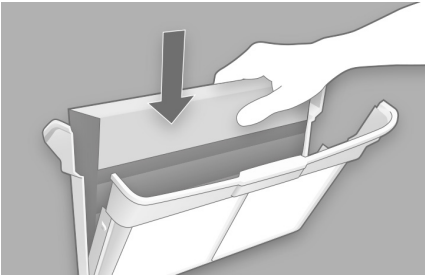
With this programme, clothes which have only been worn briefly can be cleaned from pollen.

- ▶ For the duration of the Pollenclean programme, insert the Pollenclean special filter instead of the inner fluff filter **A**.

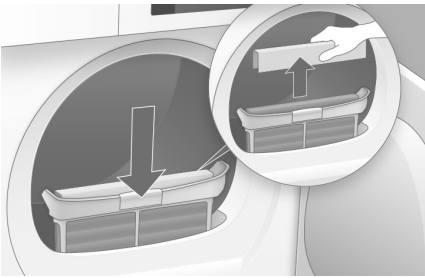
## Using the pollen filter



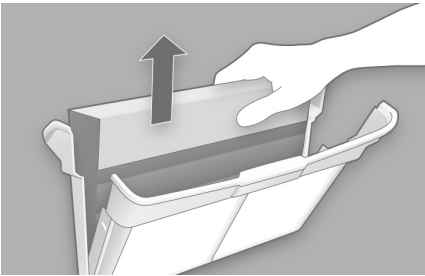
- ▶ Remove the filters **A** and **B**. Filter **A** is not required, open filter **B** (see **Drying / Cleaning the fluff filters**).



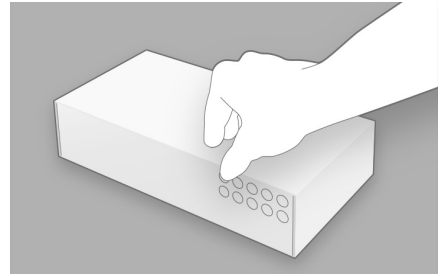
- ▶ Insert the special filter until reaching the lower limit stop in filter **B**.



- ▶ Insert the filter package in the dryer.
- ▶ Remove the protective carton and start the pollenClean programme.



- ▶ Remove the special filter with the protective carton after the programme has ended.
- ▶ Replace the fluff filter **A** and **B** make sure it is in the correct position.
- ▶ Store the filter and the protective carton in the box until next use.



One special filter can be used for ten drying cycles.

- ▶ Press in a reminder field on the box after each use.

---

### Notice

The Pollenclean special filter is a consumable and can be ordered through your local dealer or our customer service.

- ▶ Use the Pollenclean special filter only with the Pollenclean programme.
-

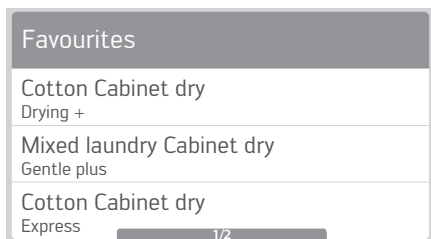
## Favorites



Your 6 most frequently used programmes (including selected options) are automatically saved under the star button.

The option **Time preset** is not being stored.

You can quickly and easily call up, select and start your favourite programmes.



You can also call up your saved favourite programmes directly on the display, when you start the machine (see **Settings / Start menu selection**).

## Deleting favorites

See **Settings / Deleting favorites**.

## Mixed laundry




This programme is optimised for drying mixed laundry made of cotton and synthetic.

## Additional programmes



Use these programmes for best results when drying a variety of textiles, such as e.g. shirts, blouses, jeans, wool etc.

# 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 **Gentle plus** and **Antibac** are mutually exclusive.

---

## Antibac



Choosing the option **Antibac** extends the additional drying phase, which can kill harmful bacteria to a great extent.

- ▶ Only use **Antibac** for textiles that are not temperature-sensitive.

## Gentle plus



For gentle drying of particularly sensitive textiles. The temperature is reduced.

## 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**).

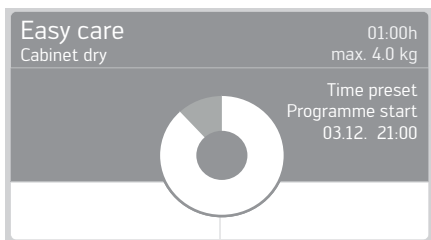
---

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

Programme end	04.09. 13:15h	
-	Date	+
-	Time	+
Reset	OK	

- ▶ 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.**

---

## Drying +

With this option the dryness level can be increased temporarily – for the duration of the selected programme.

---

### Notice

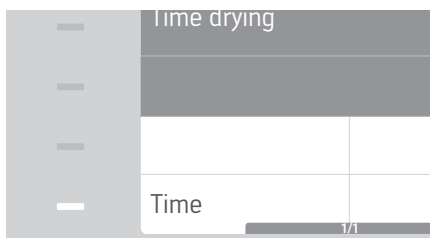
To increase the dryness level in general (for all programmes), the function **Dryness level increased** must be activated in the user settings (see **Settings / Dryness level increased**).

---

## Time

When calling up timed programmes, the minimum programme duration is displayed.

- ▶ The drying time can be adjusted to the kind and amount as well as the dryness level of the laundry.



- ▶ Increase the programme duration by tapping the light bar next to **Time** (5 min steps).

## Express

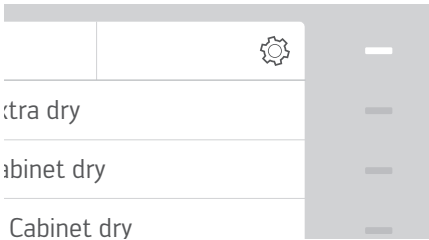
For drying reduced laundry loads or single items made of cotton, synthetic or mixed fabrics.


# Settings

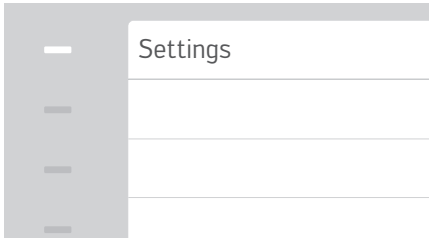
Your dryer has basic settings from the factory. The settings can be adapted to the users individual needs either when first used or later using the following functions.

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

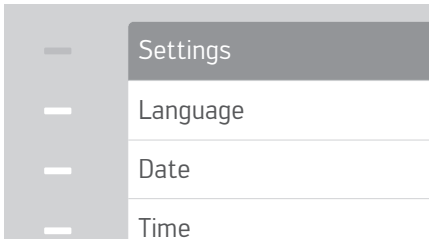
## Change settings





- ▶ Tap the light bar next to .




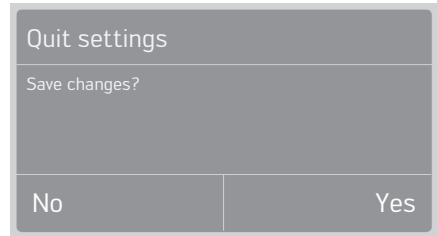
- ▶ Select **Settings** by tapping the light bar. The menu **Settings** is displayed.



- ▶ 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 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.



## Dryness level raised

- ▶ **Off \***
- ▶ **+ 1**
- ▶ **+ 2**
- ▶ **+ 3**

The dryness level can be adjusted as a general setting. Then it affects all programmes until the next change in settings.

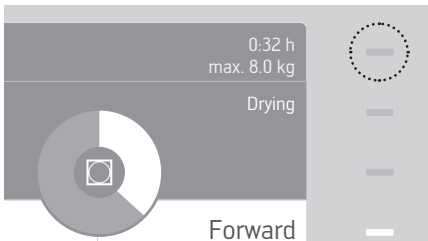
To increase the dryness level only for the duration of the selected programme, select the option **Drying +**.

## 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.

## Deleting favorites

- ▶ Select the function.



- ▶ You need to confirm the deletion of the favorites.

## Start menu selection

- ▶ **Standard \***
- ▶ **Favorites**

You can call up your saved favourite programmes directly in the start menu, when you start the machine.

Your favourite programmes are displayed immediately – the quickest way to make your selection.

## 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.

## Laundry spun

- ▶ **Normal \***
- ▶ **Reduced**

The programme duration is displayed more precise, when the dryer is aligned with the spin speed of the washing machine (The default value corresponds to a spin speed of 1400 rpm.).

## Switching off the machine

Settings for switching of the machine automatically:

- ▶ **Off**  
Machine always remains switched on.
- ▶ **On\***  
The machine is automatically switched off, when the programme has ended or when there is no further action taken after turning the machine on.
- ▶ **Standby+**  
No function.  
(Only for machines with payment system)
- ▶ **Standby**  
No function.  
(Only for machines with payment system)

---

## Waking up machine

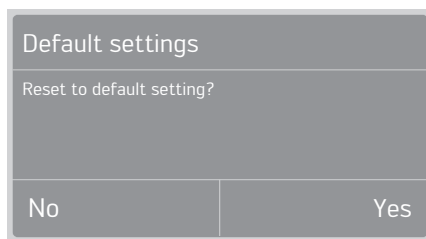
- ▶ Press button **On / Off**  .
- 

## 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.  
Saved favourite programmes are deleted also.

# Cleaning and Maintenance

## **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.

---

## **Cleaning the machine**

- ▶ 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**

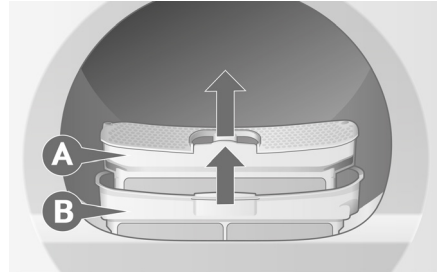
- ▶ Never use steel wool!
- 

## **Cleaning the fluff filters**

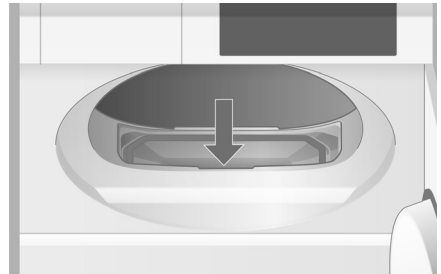
See **Drying / Cleaning the fluff filters**.

## **Cleaning the filter support**

From time to time it is necessary to remove fluffs that have accumulated inside the filter support. To do so, use a vacuum cleaner or a cleaning brush.



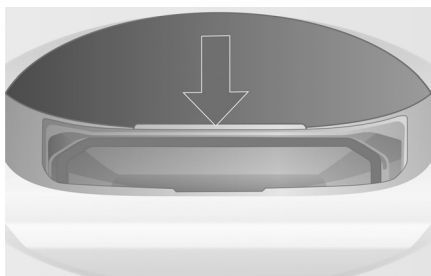
- ▶ Pull both filters out of the filter support.



- ▶ Run the pipe of the vacuum cleaner or the brush around the well of the filter support.
- ▶ Remove any residual fluff.
- ▶ Replace the two filters properly.

## Cleaning the moisture sensor

After longer operation, small deposits (lime, fabric refiner) can form on the front inner side of the drum on both sides of the longish moisture sensors. With moisture controlled programmes, this can result in the desired level of dryness not being reached.



- ▶ Wipe deposits away with a cloth soaked in vinegar.

## Emptying for frost protection or transport

If the machine is in a room susceptible to frost or is to be transported, it must be completely emptied.


- ▶ Start any programme.
- ▶ Press the light bar next to **Forward** repeatedly until **Self-cleaning** is displayed.
- ▶ Allow the programme to finish (without crease protection).

## Self-cleaning



The dryer is equipped with an automatic self-cleaning function.

At the end of each programme and also during the drying process, if necessary, the heat exchanger is cleaned.

A slight knocking noise can be heard during the cleaning process and the self-cleaning symbol  is displayed.

### Carry out self-cleaning manually

If you use the appliance rarely or only dry small amounts of washing, it is recommended that manual self-cleaning be carried out from time to time:

- ▶ Pull the fluff filters **A** and **B** out of the filter holder (see **Cleaning and Maintenance / Cleaning the filter holder**).
- ▶ Pour 1.5l tap water into the opening of the filter holder.
- ▶ Replace the fluff filters
- ▶ Start the **Cotton cabinet dry** programme.
- ▶ Press the **Forward** light bar several times until **Self-cleaning** appears in the display.
- ▶ Complete the drying cycle (without crease protection).

# 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 screw-drivers, etc.

### ERROR MESSAGES ON THE DISPLAY

<b>Child lock active</b>	<ul style="list-style-type: none"><li>▶ Hold the bar in the upper right (<b>is not lit!</b>) and at the same time press the desired button.</li></ul>
<b>Check drain</b>	<p>Condensate water pump is not running.</p> <ul style="list-style-type: none"><li>▶ Check if the water discharge hose is bent or the water discharge provided by the customer is clogged. After rectifying the error, the programme can be continued from the point at which it was interrupted.</li><li>▶ Press the light bar next to <b>Continue</b>.</li></ul>
<b>Close door</b>	<p>The start button has been operated before the door has been closed.</p> <ul style="list-style-type: none"><li>▶ Close the door and press <b>START</b>.</li></ul>
<b>Clean fluff filter</b>	<ul style="list-style-type: none"><li>▶ Press button <b>Open the door</b> . The loading door springs open.</li><li>▶ Clean the fluff filters (see <b>Drying / Cleaning the fluff filters</b>).</li><li>▶ If the error message is displayed again, contact customer service.</li></ul>
<b>Error door lock</b>	<ul style="list-style-type: none"><li>▶ Wait until the programme has ended.</li><li>▶ Press again button <b>Open the door</b> .</li><li>▶ If the door cannot be opened after the programme has ended, contact customer service.</li></ul>
<b>Programme stopped</b>	<p>Button <b>On / Off</b>  was pressed during a running programme.</p> <ul style="list-style-type: none"><li>▶ Press the light bar next to <b>Continue</b>.</li></ul>

## 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 dryer does not start despite correct power supply, contact customer service.

---

**The dryer 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.

---

**The drying target was not achieved**

When warm, laundry feels more moist than it actually is!

- ▶ Remove the laundry from the dryer and let it cool.

---

When still moist:

- ▶ Clean the fluff filters (see **Drying / Cleaning the fluff filters**).
- ▶ Increase degree of drying (see **Settings / Dryness level raised**).
- ▶ Clean the moisture sensor (see **Cleaning and Maintenance / Cleaning the moisture sensor**).

---

**The individual laundry piece does not reach the set drying target**

- ▶ If one single piece is to be dried in the dryer, it will be dried more evenly by adding additional pieces, e.g. two terry towels or using the **Express** programme option.

---

**The drying takes too long**

- ▶ Clean the fluff filters (see **Drying / Cleaning the fluff filters**).

---

Power failure.

- ▶ Note lock times of EW.

---

**The laundry is not dry after the maximum possible settings**

Drum is overloaded.

- ▶ Observe the maximum loads in the programme table.

---

Insufficient room ventilation.

- ▶ Open a window or door.

	<p>The fluff filters are blocked with fluff or scale deposits.</p> <ul style="list-style-type: none"> <li>▶ Clean the fluff filters (see <b>Drying / Cleaning the fluff filters</b>).</li> </ul>
<b>Drum lighting does not work</b>	<p>The LED is defective.</p> <p>For safety reasons the LED must only be replaced by the customer service or a qualified specialist.</p>
<b>Dampness in the room increases significantly</b>	<p>The room does not have sufficient ventilation</p> <ul style="list-style-type: none"> <li>▶ Ensure adequate ventilation.</li> </ul>
<b>Water on the floor</b>	<ul style="list-style-type: none"> <li>▶ Check, the drain hose for leakage and proper installation.</li> </ul>
<b>Odour accumulation</b>	<p>If the appliance is used only rarely or only for small amounts of washing (e.g. in a holiday apartment), fluff can collect in the drainage system (see <b>Cleaning and Maintenance / Self-cleaning</b>).</p>

## ERROR MESSAGES F --

«Error F--»  
is displayed

- ▶ Acknowledge the error message with **OK**.  
Machine restarts.
- ▶ Close the door by pushing it.
- ▶ Re-select a programme 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.
- ▶ Close the door by pushing it.
- ▶ Select again a programme and press button **START**.

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

- ▶ Note the error message.
- ▶ Switch off the power supply.
- ▶ Contact customer service (see **Customer service**).

# Technical specifications


## Product data sheet for household washing dryer

according to EC regulation no. 392 / 2012

### Schulthess

#### Model name / label

**Spirit 660**

Nominal capacity <sup>1)</sup>	kg	8,0
Dryer type		Heat pump dryer
Energy efficiency class A+++ (highest efficiency) to D (lowest efficiency)		A++
Weighted annual energy consumption <sup>2)</sup>	kWh / Jahr	182
Dryer		with automatic
Energy consumption of the standard cotton programme		
Energy consumption full load	kWh	1,49
Energy consumption partial load	kWh	0,85
Power consumption in off-mode	W	0,24
Power consumption in left-on mode <sup>3)</sup>	W	0,24
Duration of the left-on mode <sup>4)</sup>	min	5
Standard programme, to which the information in the label and the data sheet relates <sup>5)</sup>		Cotton  Cabinet dry
Weighted programme duration of the standard cotton programme	min	115
Programme duration at full load	min	148
Programme duration at partial load	min	89
Condensation efficiency class A (highest efficiency) to D (lowest efficiency)		B
Average condensation efficiency of the standard cotton programme at full load	%	87
Average condensation efficiency of the standard cotton programme at partial load	%	87
Weighted condensation efficiency of the standard cotton programme at full load and partial load	%	87
Airborne acoustical noise <sup>6)</sup>	dB(A) re 1pW	61

<sup>1)</sup> In kg Cotton for the standard programme at full load.

<sup>2)</sup> Based on 160 standard drying cycles for the standard cotton programme at full load and partial load as well as the consumption of operating modes with low power consumption. The actual power consumption per cycle depends on how the machine is used.

<sup>3)</sup> 4.06 W if the machine is not configured to automatically turn off.

<sup>4)</sup> If the household laundry dryer is equipped with power control.

<sup>5)</sup> This programme is suitable for drying normal, wet cotton textiles and is most efficient regarding energy consumption for cotton.

<sup>6)</sup> For the standard cotton programme at 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.





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## Brief instruction

Follow the safety instructions in this manual!

- ▶ Turn on the power switch.
- ▶ 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.
- ▶ Press button **START**.

**At the end of the programme**

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



WT 14 EFH W 2

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