

iCombi[®] Pro

Operating instructions



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1 Introduction

Dear customer,

Congratulations on purchasing your new iCombi Pro. Read the operating instructions carefully prior to using your unit for the first time. The operating instructions are there to ensure that you use the unit safely. Keep these operating instructions in a place that is accessible at all times to anyone who will be using the unit.

The iCombi Pro is the most intelligent combi-steamer. It cooks a multitude of different dishes for 20 or several thousands of guests. Whether these are fish, meat, poultry, side dishes or baked goods, or whether they are fried, steamed, grilled or baked. Thanks to its cooking intelligence and its intelligent climate management, this is all done automatically, to the point, even with a maximum load.

We hope you enjoy using your iCombi Pro.

Yours

RATIONAL UK Limited

1.1 Help displayed on the unit

These operating instructions and a large number of application examples from around the world are available in the unit for operational assistance. You can find all the information on this function here: Help displayed on the unit [▶ 106]

1.2 Product liability

RATIONAL assumes no liability for damage caused by unauthorised technical changes or improper use.

1.3 Target group

This document is intended for staff working in large and commercial kitchens.

The unit may not be used, cleaned, or maintained by the following groups of persons:

- Persons with reduced physical, sensory or mental capabilities
- Persons lacking experience and knowledge
- Children

Supervise children standing near the unit. Children may not play with the unit.

1.4 Intended use

The iCombi Pro has been developed for the preparation of hot food.

This unit may only be used commercially, such as in restaurant kitchens and large and commercial kitchens in hospitals, bakeries or butcheries. This unit may not be used outdoors. This unit may not be used for continuous industrial mass production of food.

All other uses are contrary to the intended purpose, and may be dangerous. RATIONAL AG assumes no liability for the consequences of using the unit contrary to the intended use.

1.5 Working with this manual


1.5.1 Explanation of symbols

The following symbols are used in this document to inform and guide you:


- ✓ This symbol marks conditions which must be met prior to performing an action.
 1. This symbol marks an action step you must perform.
 - > This symbol marks an interim result that you can use to assess the result of an action step.
 - >> This symbol marks a result that you can use to assess the end result of an action instruction.
 - This symbol marks a bulleted list.
 - a. This symbol marks a list.

1.5.2 Explanation of pictograms

The following pictograms are used in this document:

 Caution! Read the operating instructions before using the unit.

 General warning symbol

 Useful tips for simple use of your unit.

1.5.3 Explanation of safety messages

If you see the following safety messages, you are being warned about hazardous situations and instructed to avoid these situations.

DANGER

If you see the signal word DANGER, you are being warned about situations that lead to serious injury or death.

WARNING

If you see the signal word WARNING, you are being warned about situations that may lead to serious injury or death.

CAUTION

If you see the signal word CAUTION, you are being warned about situations that may lead to injury.

NOTICE

If you see this notice, you are being warned about situations that may cause damage to the unit.

1.5.4 Images

The images used in these operating instructions may differ from the actual unit.

1.5.5 Technical changes

We reserve the right to make technical changes in the interest of progress.

2 The iCombi Pro



Model 20-1/1



Model 20-2/1



Model 20-1/1



Model 20-2/1

3 General safety instructions

The unit is designed to be safe and will not present any danger if used in a correct and proper way. These instructions describe how to use the unit correctly.

- Your unit must be installed by your RATIONAL Service Partner or qualified installer.
- Your unit must be maintained by your RATIONAL Service Partner.
- Your cooking system should be serviced at least once a year by an authorised RATIONAL service partner to ensure that it is in perfect technical condition.
- Do not modify the unit or the unit installation undertaken by your RATIONAL Service Partner.
- Do not remove the floor drain sieve.
- Do not use the cooking system if it is damaged or if the connection cable is damaged. A damaged unit is not safe and can cause injury or fire.
- Do not use the unit if a glass panel on the cooking cabinet door is damaged. Contact your RATIONAL Service Partner and have them replace the glass panel on the cooking cabinet door.
- Do not place any objects on the unit.
Do not place hot containers or containers with hot liquids on the cooking system.
- Do not store any flammable or combustible substances near the unit.
- Only use the unit at an ambient temperature of +10 °C to +40 °C.
- Avoid having heat sources, e.g. grill plates or deep-fat fryers, near the unit.
- During operation, ensure that the floor surrounding the unit is dry and non-slip.
- Regular training and safety instructions for operating personnel are required to prevent accidents or damage to the cooking system.
- This cooking system must not be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and/or knowledge, unless these persons are supervised by a person responsible for their safety who is informed of the dangers of the appliance. Surfaces and accessories may be hot, please be aware when supervising. Cleaning and user maintenance must not be carried out by children, even under supervision

Safety instructions before use

- Make sure the unit is at a temperature of at least + 5°C.
- Make sure that the air baffle in front of the fan wheel is locked at the top and bottom.
- Make sure that the hinging rack or the mobile oven rack are locked.
- Make sure that there are no residues from cleaner tablets in the cooking cabinet.
- If the unit is used again after a long period of downtime, rinse the hand shower through with at least 10 litres of water.

Safety instructions during use

- This will prevent scalding and burns:
 - Open the cooking cabinet door carefully during use. Hot steam may escape.
 - Wear personal protective equipment if you are removing accessories or objects from the hot cooking cabinet.
 - Only touch the unit on the control panel and the cooking cabinet door when in operation. The outer surfaces can reach temperatures of over 60°C.
 - Only slide containers with food into racks you can see into. Hot food can otherwise spill out when removing them from the unit.
- This will prevent fire and explosion hazards:
 - Do not cook with highly flammable liquids such as alcoholic drinks in the unit. Highly flammable liquids can self-ignite when cooking.
 - With grilling and roasting applications, use a fat collector under the food.
- To prevent material damage due to improper use of accessories:

- Use only original RATIONAL accessories.
- Use only the VarioSmoker to smoke food.
- Cold food is not to be added to the unit for rethermalization while hot food is being held.

This will prevent injuries when working with transport trolleys and mobile oven racks:

- Carefully push transport trolleys, mobile oven racks or mobile plate racks over thresholds and uneven floors to prevent them from tilting.
- Apply the brakes on transport trolleys, mobile oven racks or mobile plate racks to prevent them from rolling away on uneven floors.
- Secure the transport trolley to your unit before sliding a mobile oven rack or mobile plate rack into the unit or removing them from the unit.
- Apply the container lock on the mobile oven rack and cover containers holding hot food when moving mobile oven racks. Hot food can otherwise spill out.

Safety instructions after use

- Clean the unit after every use.
- To prevent corrosion in the cooking cabinet, leave the cabinet door slightly open if it is going to be idle for a prolonged period and overnight.
- For long stoppages, shut off the water, power and gas supplies to the unit.
- For long stoppages and prior to transportation of the unit, empty the steam generator.

3.1 Safety instructions for units with a gas connection

- This will prevent fire hazards:
 - If your unit is connected to a chimney, contact your gas installer regularly to clean the ventilation pipe of the unit. Ensure that the provisions specific to the country are complied with.
 - Do not put objects on the exhaust pipes.
- This will prevent fatal accidents:
 - If your unit is operated with an exhaust hood, always switch on the exhaust hood during operation. Combustion gases may otherwise accumulate.
- If you smell gas, proceed as follows:
 - Do not press any light or unit switches, do not pull any plugs from sockets and do not use mobile telephones or phones. This may cause sparks and increase the risk of an explosion.
 - Open the windows and doors and ventilate the room with fresh air. Do not switch on any exhaust hoods or ventilators to ventilate the room. This may cause sparks and increase the risk of an explosion.
 - Close the shut-off valve on the gas line.
 - Leave the building and contact your gas supplier or the fire services.

3.2 Personal protective equipment

- When working with the unit, only wear clothing that cannot cause a work accident, particularly due to heat, splashing hot liquids or corrosive substances.
- Wear protective gloves for reliable protection when handling hot objects and sharp-edged trays.
- Wear tight-fitting protective glasses and chemical-safe protective gloves when cleaning to ensure reliable protection when handling care products.

4 How to work with the unit

4.1 Initial start-up

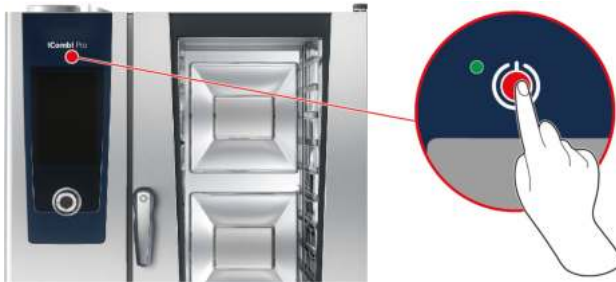
When starting up your unit for the first time, it has already been properly installed by a RATIONAL Service Partner. The self-test has already been performed and the unit is therefore ready for operation. You can find all the information on installation in the installation manual enclosed.

Before working with the unit for the first time


1. Clean the unit and accessories before using the unit for the first time.

Click here for more information: Care [▶ 100]

4.2 Switching the unit on and off





Switch on the unit

1. To switch on the unit, press and hold the button until the LED lights green: 
 - > The unit will start. The start screen [▶ 16] will appear.


Operation without water supply

Continuous operation without water is not possible.

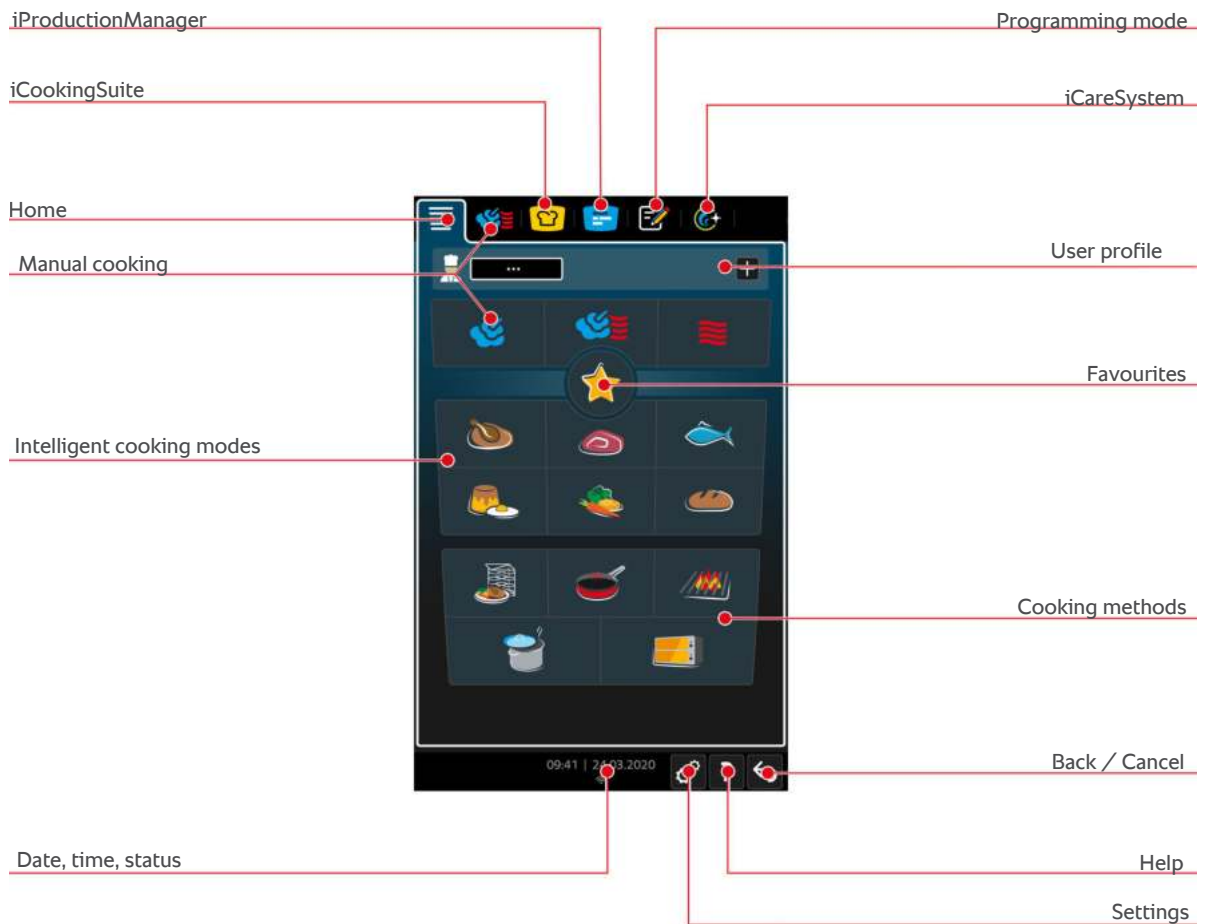
If you operate the unit without a connection to a water supply, you will be asked to pour 3 litres of water into the cooking cabinet. The symbol will be displayed in the footer: . Temporary operation without water supply is possible under the following conditions:

1. Pour 3 litres of water onto the floor of the cooking cabinet.
2. To confirm the action, press the button: 
3. After 5 hours of operation in the cooking system, perform a cooldown to < 100 °C.
4. Then pour another 3 litres of water into the cooking cabinet.
5. As soon as water is available again, start cleaning.

Switch off the unit

1. To switch off the unit, press and hold the button until the LED lights orange: 
 - > You will be asked whether you really want to switch off the unit.
 2. To switch off the unit, swipe the bar to the right.
- >> The unit will be switched off.

4.3 Start screen



- iProductionManager [▶ 54]
- Intelligent cooking - iCookingSuite [▶ 26]
- Home
 - If you press this button, you will be navigated to the start screen.
- Manual operating modes [▶ 45]
- Favourites [▶ 17]
- Intelligent cooking modes [▶ 26]
 - If you press one of these buttons, all intelligent cooking paths categorised as intelligent modes will be displayed.
- Cooking methods
 - If you press this button, all intelligent cooking paths attributed to this mode will be displayed.
- Programming mode [▶ 64]
- Automatic cleaning - iCareSystem [▶ 95]
- Date, time, status [▶ 17]
- Settings [▶ 72]
- Help displayed on the unit [▶ 106]
- Back / Cancel
 - If you press this button, you will return to the previous screen. If you press and hold this button, you will abort a cooking path.

4.3.1 Favourite

You can save intelligent cooking paths and programs you use often as favourites and call them up from the home screen. This can give you fast access to the dishes on a seasonal menu, for example.



1. In the iCookingSuite or in the programming mode, select the cooking paths or programs you would like to save as favourites.
 2. Press the button **...**, which you will find next to the selected cooking paths and programs.
 3. Press the button **★**
- >> All cooking paths and programs saved as favourites are displayed.

4.3.2 Date, time, status

In the footer, you can see the current date and time at all times, as well as the status of the following ports and connections:



USB flash drive connected

This symbol shows that you have connected a USB flash drive or a USB accessory to the unit.



Network connection

This symbol indicates that you are connected to the router but not to the Internet: 

This symbol shows that your unit is connected to a LAN network. If there is a network error, the following symbol will be displayed: 



WLAN connection

This symbol shows that your unit is connected to the WLAN network. The connection quality is very good.

If the connection quality decreases, the following symbols will be displayed: 

This symbol indicates that you are connected to the router but not to the Internet: 

If there is a connection error, the following symbol will be displayed: 




Error report

This symbol shows that an error message is displayed on the display.



ConnectedCooking connection

This symbol shows that your unit is connected to ConnectedCooking. If your cooking system is not connected to ConnectedCooking, the following symbol will be displayed: 



Water connection

This symbol shows that your unit is not connected to the water inlet. If you switch on the unit, you will be asked to pour 3 litres of water into the cooking cabinet.

4.3.3 Help displayed on the unit



Help displayed in the cooking system

Selecting the question mark icon will take you to the integrated help function in the unit. Here you will find a digital description of how to use your cooking system. The help function is context-sensitive, so the help function for the current screen content is always shown first. The help function also contains detailed information on individual cooking paths and provides you with a wealth of practical application examples tried and tested by RATIONAL with useful tips.

4.4 Interacting with the unit

NOTICE

Incorrect operation of the display

The display could be damaged if you operate it with a pointed or sharp object.

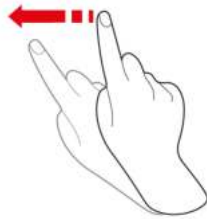
1. Only operate the unit with your fingers.

4.4.1 Moves

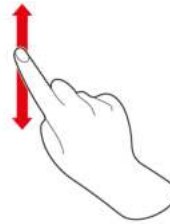
You can operate your unit with a few simple moves.



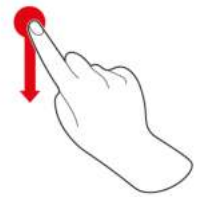
Press



Swipe



Scroll



Drag-and-drop

4.4.2 Central dial



Instead of the Moves [► 18], you can modify settings by turning the central dial. Confirm actions by pressing the central dial.

4.5 Maximum load sizes

NOTICE

High load sizes could damage the unit

If you exceed the maximum load size, this may damage the unit.

1. Only load the unit with the maximum load sizes stated here

Model	Max. load size [kg]	Max. load per level
20-1/1	90 kg	15 kg
20-2/1	180 kg	30 kg

4.6 Opening and closing the cooking cabinet door



Opening cooking cabinet door

1. Turn the cooking cabinet door handle to the right.
 2. If your unit is equipped with a safety door lock, first press on the foot pedal and turn the cooking cabinet door to the right to the horizontal position.
 3. Open the cooking cabinet door slowly. **⚠ CAUTION! Scalding hazard! If the unit is in operation, hot steam may surge out of the cooking cabinet.**
- >> The fan wheel is slowed down.

Closing the cooking cabinet door

1. Close the cooking cabinet door and then turn the handle to the left to the vertical position.

4.7 Loading the unit

⚠ WARNING

Risk of injury due to broken glass

Make sure at all times that accessories are fully inserted into the cooking system. If you do not, the internal glass pane may break when closing the cooking cabinet door and cutting injuries may result.

NOTICE

Protruding accessories

Make sure at all times that accessories are fully inserted into the cooking system. If you do not, the internal glass pane may break when closing the cooking cabinet door.

1. Open the cabinet door.
 - > The brakes on the fan wheel will be activated and this will brake the fan wheel.
2. Push the food into the unit.
3. If you are grilling or frying the food, put a container under the food to collect the fat. .
4. Close the cooking cabinet door. Make sure that the cooking cabinet door is fully closed and the cooking cabinet door handle is in the vertical position. **NOTICE! In the event that the unit has been without power or switched off for less than 15 minutes, the process will continue from where it was interrupted.**

Rack level over 1.60 m



If your unit has been installed so that the top rack is 1.60 m above the floor, you must apply the warning symbol supplied at that position.

4.8 Inserting core temperature probe

The following sections describe how to work both with the core probe and with the optional externally attachable USB core probes. With a sous-vide USB core probe, the temperature of sous-vide cooked food can be monitored without destroying the vacuum in the sous-vide bag. An external USB core probe can also be used if, for example, there is an equipment variant without an internal core probe.

CAUTION

Hot core probe

There is a risk of burns if you touch the hot core probe without protective gloves.

1. Always wear protective gloves when working with the hot core probe.
2. If necessary, cool down the core probe using the hand shower.

⚠ CAUTION**Sharp core probe**

You could injure yourself with the tip of the core probe if you do not work carefully with it. This applies in particular to the sous-vide USB core probe.

1. Always wear protective gloves when working with the hot core probe.
2. Insert the sous vide USB core probe into the holder on the side.

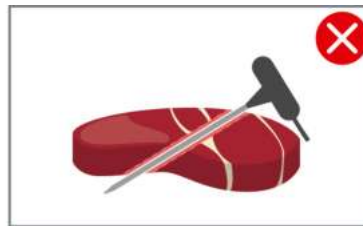
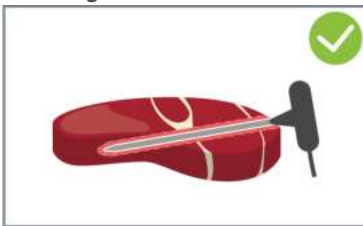
NOTICE**The core probe is hanging out the cooking cabinet**

If you do not insert the core probe into the holder provided after use, the core probe may be damaged.

1. After use, insert the core probe into the holder provided in the hinging rack.

**TIP**

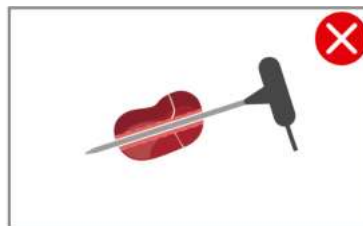
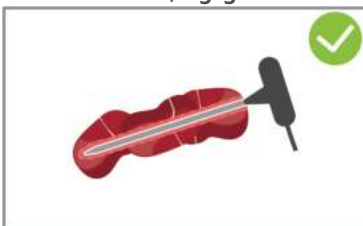
- If you regularly cook very thin or liquid food, it is recommend to use the optional positioning aid. First insert the core probe in the positioning aid and then into the food.
- If the core probe is warmer than the set core temperature, cool down the core probe using the hand shower.

Meat, e.g. steak

1. Insert the core probe up to the handle into the food at an angle so that the core probe is as far into the food as possible.


Large pieces of meat, e.g. roasts

1. Insert the core probe up to the handle into the thickest point of the food.

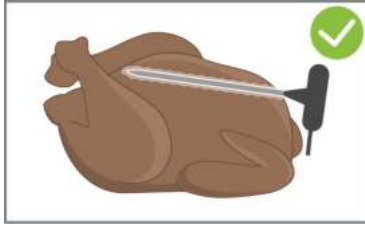
Small food item, e.g. goulash

1. Insert the core probe into as many pieces of food until the core probe is full with food from the tip to the handle.

Food of different sizes

1. First insert the core probe into the smallest piece of the food.
2. Once the desired core temperature has been reached, remove the small pieces of food from the core probe and from the cooking cabinet.
3. Then insert the core probe into a larger piece of the food and continue the cooking process with the **Move**  option.

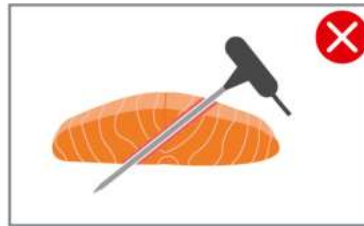
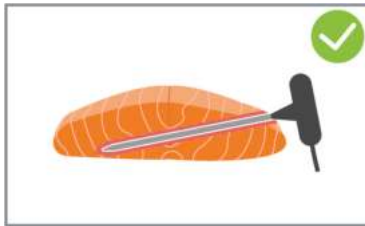
Whole chicken



1. Insert the core temperature probe up to the handle into the thickest point of the breast fillet, not too close to the ribs.

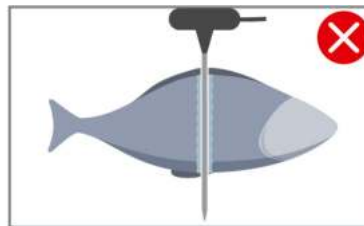
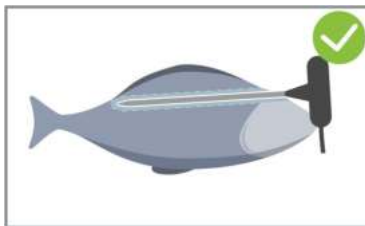
Make sure that the tip of the core probe does not protrude into the abdominal cavity of the chicken. Do not insert the core probe into the leg.

Fish fillets



1. Insert the core probe up to the handle into the food at an angle so that the core probe is as far into the food as possible.

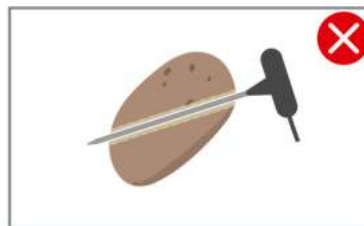
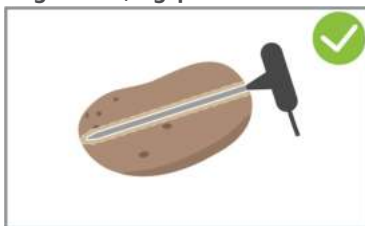
Whole fish



1. Insert the core probe up to the handle into the thickest point of the food.

Make sure that the tip of the core probe does not protrude into the abdominal cavity of the fish.

Vegetables, e.g. potatoes



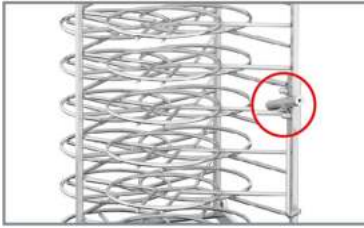
1. Insert the core probe up to the handle into the thickest point of the food.

Soups, sauces, desserts

1. Place the core probe in the Gastronorm container so that the core probe is completely covered with liquid.
2. When stirring the liquid, make sure that the core probe remains in the Gastronorm container.

Baked goods

1. For baked goods that rise during baking, place the core probe vertically in the middle of the product. To do this, use the optional positioning aid.

Finishing with mobile plate rack

1. Insert the core probe in the white ceramic tube of the mobile plate rack.

Core temperature probe not recognised

✓ The symbol will be displayed:

1. Place the core probe as described in the manual into the product.
2. Confirm the correction.

>> The cooking process is not performed correctly. If you do not confirm the correction, the cooking process will be aborted and you will have to start again. Some cooking paths, such as **low temperature boiling**, will continue despite the error.

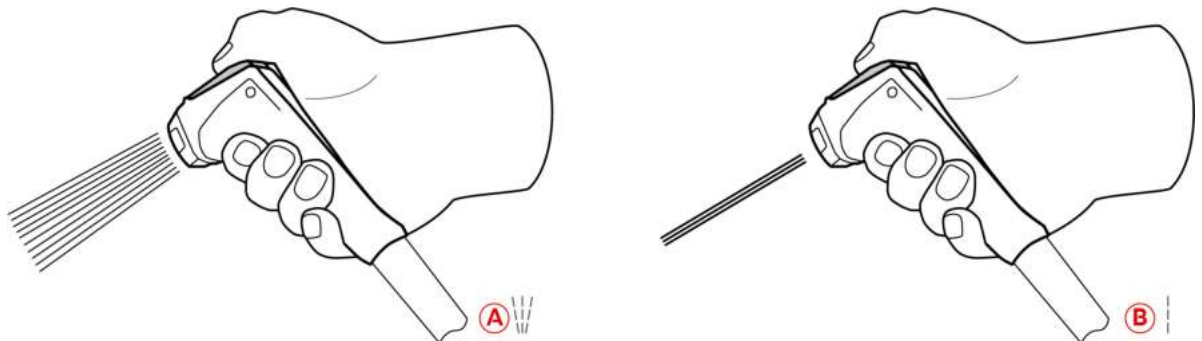
Remove core probe

1. Once the food has reached the desired result, first carefully remove the core probe from the food.
2. Once you have cleaned the core probe, insert it into the holder provided and then remove the food from the cooking cabinet.

4.9 Using the hand shower

Note that your unit can be equipped without a hand shower as an option.

The hand shower has two adjustable spray patterns, spray (A) and jet (B).

 **CAUTION**

The hand shower and the water coming out of the hand shower can reach over 60 °C

You could burn yourself if you touch hot components or come in contact with hot water.

1. Wear protective gloves while working with the hand shower.

 CAUTION

Germ formation in the water pipe

If you do not use the hand shower daily, germs may form in the water line.

1. Rinse the hand shower through with water in the morning and in the evening for 10 seconds.

NOTICE**Improper handling of the hand shower**



If you pull the hand shower out beyond the maximum hose length or rip the hose, the automatic retraction system of the hand shower may be damaged. Then hand shower will no longer automatically retract into the housing.

1. Do not pull the hand shower beyond the maximum hose length.

NOTICE**The hand shower is not suitable for cooling down the cooking cabinet**

If you cool down the cooking cabinet with the hand shower, this could damage the cooking cabinet, air baffle or the glass panels of the cooking cabinet door.

1. Only cool down the cooking cabinet using the cool down function.

1. Pull the hand shower at least 20 cm out of the parked position.
2. Hold the hand shower hose firmly.
3. Turn the front part of the hand shower to select the desired spray pattern.
 - Set the hand shower to  to select the **jet** spray pattern.
 - Set the hand shower to  to select the **spray** pattern.

If you do not turn the front part of the hand shower to one of the two spray patterns, water can drip from the shower head.

1. Press the lever on the hand shower. The harder you press the lever, the stronger the water stream will be.
2. After use, let the hand shower slowly retract into the housing. **⚠ CAUTION! Make sure that the hose of the hand shower is clean before letting it retract into the housing.**

4.10 Integrated fat drain

If your unit is equipped with the optional integrated fat drain, dripping fat is collected in the cooking chamber and directed into the fat collecting container.



1 Ball valve handle

2 Drain pipe

3	Filler pipe with bayonet fastener	4	Grease drip collector
---	-----------------------------------	---	-----------------------

1. Open the cabinet door.
 2. Remove the drain pipe plug.
 3. Place the plug next to the drain on the cooking cabinet floor. The chain ensures that the plug cannot be lost.
 4. Place the fat collecting tray in the cooking cabinet, so that the opening of the fat collecting tray is on top of the drain pipe.
 5. Place a fat collecting container under the drain on the outside of the unit, e.g. a canister.
 6. Insert the filler pipe of the integrated fat drain into the fat collecting container.
 7. Attach the bayonet fastener of the filler pipe onto the drain.
 8. Lock the bayonet fastener.
 9. Turn the handle of the ball valve to a horizontal position.
- >> The ball valve is open. Dripping fat can now be collected in the fat collecting container.

Replace the fat collecting container

CAUTION

The outside of the unit, the drain and the fat collecting container can get very hot

You can burn yourself if you come into contact with hot functional parts. Wear your personal protective equipment when changing the fat collecting container.

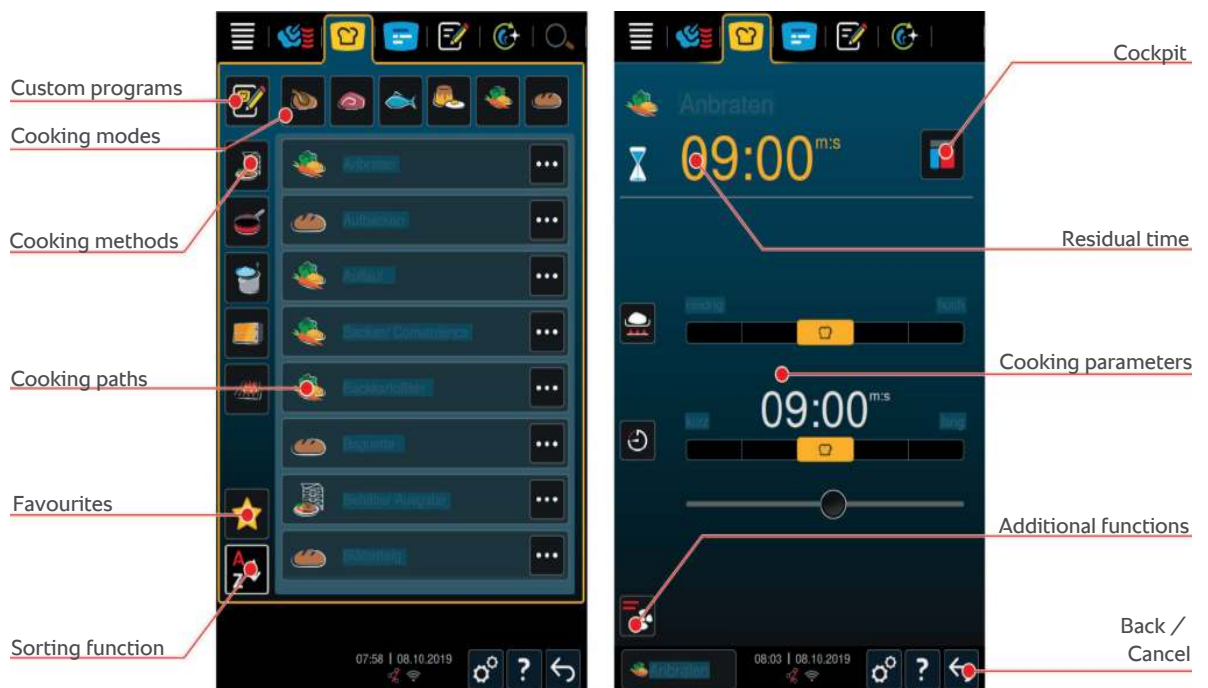
1. When the fat collecting container is full, turn the handle of the ball valve to the vertical position.
 - > The ball valve is closed.
2. Loosen the bayonet fastener.
3. Replace the fat collecting container.
4. Dispose of the fat properly. **NOTICE! Fat and other liquid substances that are collected in the fat collecting container must be disposed of in compliance with legal requirements. Never dispose of fat in the drain. Never use fat that you have collected in the fat collecting container to cook food or as food.**

5 Intelligent cooking - iCookingSuite



The iCookingSuite is the cooking intelligence in the iCombi Pro. You select which food is to be cooked with which cooking method. With this selection, a wide range of cooking processes will be offered so you can achieve the ideal cooking result. If required, you can use cooking parameters to adjust the cooking result to your requirements, e.g. intensifying browning or changing the cooking level from rare to well done. A wide selection of application examples are also available in the help section of the unit. You can select them directly from the help section.

While the cooking path is running, all the important cooking settings such as the cooking cabinet temperature, climate, air speed and cooking time will be regularly adjusted so that your desired result is achieved. If required, you can intervene in the cooking path even during cooking and change the desired cooking result. For you this means it is easy to use, no checking, no monitoring. You therefore gain time, save raw materials and energy and always have outstanding, consistent food quality.







5.1 Operating modes and cooking methods

The following modes are available:

- Poultry 🍗
- Meat 🥩
- Fish 🐟
- Egg dishes and desserts 🍳
- Vegetables and side dishes 🥕
- Baked goods 🍞
- Finishing 🍽️

The following cooking methods are available:

- Boiling 
- Frying 
- Baking 
- Grill 

A specific set of intelligent cooking paths is assigned to each operating mode. These cooking paths reflect cultural cooking habits that you can set in the primary national cuisine [▶ 78] and the secondary national cuisine [▶ 78].

5.2 Intelligent cooking processes

You can find extensive information on all intelligent cooking paths via the help button [?]. This includes tips & tricks for a successful and safe cooking result, explanations of all setting options and application examples that you can start directly with the appropriate settings for the food.

5.2.1 Poultry

Cantonese Duck

Select this cooking path if you would like to prepare Cantonese duck.

Roasted Duck

Select this cooking path if you would like to prepare whole ducks or duck legs.

Steam

Select this cooking path if you want to steam poultry.

Deep-frying

Select this cooking path if you would like to deep-fry poultry pieces.

Roasted Goose

Select this cooking path if you would like to prepare a whole goose, goose breast or leg of goose.

Grilling

Select this cooking path if you would like to grill poultry parts, like chicken breast, turkey steaks or chicken wings.

Roasted chicken

Select this cooking path if you would like to prepare whole chickens, poussins or larger pieces of poultry.

- If you would like to prepare small pieces of poultry, select the cooking path Pan-fry.
- If you need short post-production times for grilled chickens, select the cooking path Overcrust.

Cook

Select this cooking path if you would like to cook poultry dishes, e.g. chicken soup or terrines.

Pan-frying

Select this cooking path if you would like to prepare smaller poultry parts, like turkeys or chicken wings, or Barbarie duck breast.

Roast at low temperature

Select this cooking path if you would like to roast poultry at a low temperature. Also select this cooking path if you would like to roast poultry with crispy skin overnight or if you are not in the kitchen.

In order to ensure the best quality and juiciness of the food to be cooked, even during longer phases when the food is in the cooking cabinet with the **Maintain** option, the cooking cabinet temperature is reduced when the desired core temperature has been reached. This reduced cooking chamber temperature also ensures that hygienically clean food is produced.

Breaded items

Select this cooking path if you would like to prepare breaded poultry.

Peking duck

Select this cooking path if you would like to prepare traditional Peking duck.

Roasted Turkey

Select this cooking path if you would like to prepare whole turkeys or parts of the turkey. Also select this cooking path if you would like to prepare stuffed turkeys.

Braise

Select this cooking path if you would like to braise poultry.

Tandoori

Select this cooking path if you would like to cook poultry that has been marinated in tandoori paste and is to be cooked at high temperature.

Tsukeyaki

Select this cooking path if you would like to prepare poultry that has been marinated in Tsukeyaki sauce and is to be cooked in the ideal climate.

Chinese crispy chicken

Select this cooking path if you want to cook traditional Cantonese crispy chicken.

5.2.2 Meat

Bacon

Select this cooking process if you would like to prepare bacon.

Roast with crackling

Select this cooking process if you want to cook large pieces of meat with crackling.

Braised pork

Select this cooking path if you would like to braise pork Chinese style in soya sauce.

Blanch / simmer

Select this cooking path if you would like to prepare boiled or cooked sausages in artificial or natural casings.

Char Siu (Cantonese grilled pork)

Select this cooking path if you would like to prepare Chinese Char Siu.

Cochinita pibil

Select this cooking path if you would like to prepare Mexican Cochinita Pibil or another dish that braises in its own juice. The cooking chamber climate is optimised for these stew dishes.

Crispy pork belly

Select this cooking path if you would like to prepare Chinese crispy pork belly.

Meat in pastry

Select this cooking path if you would like to prepare meat in pastry or in salt crust.

Deep-frying

Select this cooking process if you want to deep-fry meat pieces.

Large roasts

Select this cooking process if you want to fry large pieces of meat.

Grilling

Select this cooking path if you want to cook pieces of meat with a grill pattern.

Semi-preserves

Select this cooking path if you are using meat, for example if you would like to make boiled and cooked sausages, ragout or goulash semi-preserves. To make semi-preserves safely, you need a reference container with a lid.

1. Make a hole in the lid of the reference container. Do not use the core temperature probe to do this.
2. Put the food into the desired containers and close them with their lids.
3. Start the cooking paths and load the unit.
4. Insert the core temperature probe through the hole in the lid of the reference container.

The **semi-preserve** cooking path regulates to an F value of 0.3. The semi-preserves produced in this way have a shelf life of up to 6 months at a storage temperature of less than 10 °C.

Kebab

Select this cooking process if you would like to prepare kebab.

Cook

Select this cooking path if you want to boil pieces of meat that are usually cooked in liquid, such as prime boiled beef or terrines.

Pan-frying

Select this cooking path if you want to cook meat, which would typically be fried in the pan, or thinly diced meat.

Meatloaf

Select this cooking process if you would like to prepare meatloaf.

Lomo saltado

Select this cooking process if you want to cook casseroles or stir fries.

Roast at low temperature

Select this cooking path if you want to fry pieces of meat with crackling or skin at low temperatures. Also select this cooking path, if you want to cook food overnight, or if you are not staying in the kitchen.

Nikomi

Select this cooking path if you would like to prepare Japanese Nikomi.

Breaded items

Select this cooking path if you would like to prepare breaded meat items.

Roast beef

Select this cooking process if you would like to prepare roast beef.

Sauté

Select this cooking path if you would like to sauté meat.

Braise

Select this cooking path when cooking braised dishes or braising finely diced meat, such as casserole. If you want to heat braised dishes to service temperature, select a suitable cooking path from the operating mode Finishing.

Tsukeyaki

Select this cooking path if you would like to prepare meat that has been marinated in Tsukeyaki sauce and is to be cooked in the ideal climate.

Black Char Siu

Select this cooking path if you would like to prepare Chinese Char Siu.

5.2.3 Fish

Fry

Choose this cooking process if you want to roast fish fillets or whole fish with or without skin, marinated or on a bed of vegetables.

Steam

Select this cooking process if you want to steam fish, fish fillets or terrines.

Chinese-style steamed dishes

Select this cooking process if you want to steam fish Chinese style. **(Only in Chinese country cuisine)**

Salt-baked fish

Select this cooking process if you would like to prepare salt-baked fish.

Deep-fry

Select this cooking process if you want to deep-fry fish.

Grill

Select this cooking path if you would like to grill fish fillets or whole fish with or without skin

Moqueca

Choose this cooking process if you want to prepare Brazilian Moqueca or other fish stews where the food is first fried and then filled with liquid. **(Only available in South American country cuisine)**

Nizakana

Choose this cooking process if you want to poach fish, such as mackerel or herring, Japanese style in dashi. **(Only available in Japanese country cuisine)**

Octopus

Select this cooking path if you want to cook octopus, squid or cuttlefish in liquid.

Breaded items

Select this cooking path if you would like to prepare breaded fish fillets or breaded fish.

Sauté

Select this cooking path if you want to sauté or pan-fry fish. **(Only available in Japanese country cuisine)**

Braise

Select this cooking process if you want to braise fish.

Braise Chinese-style

Select this cooking process if you want to braise fish Chinese style. **(Only available in Chinese country cuisine)**

Tsukeyaki

Select this cooking path if you want to cook seafood marinated in Tsukeyaki sauce and is to be cooked at high temperature.

5.2.4 Egg dishes and desserts

Baked dessert

Select this cooking path if you would like to prepare fresh, sweet bakes, like semolina or rice puddings, strudel, baked apples or Kaiserschmarrn. Select this cooking path if you would like to prepare convenience products.

Steam dessert

Select this cooking path if you would like to prepare steamed desserts, like steamed dumplings or yeast dumplings.

frying eggs

Select this cooking process if you want to poach eggs.

Poached/ boiled eggs

Select this cooking path if you would like to prepare soft, soft-boiled or hard-boiled eggs or if you would like to poach eggs.

Poached eggs

Select this cooking process if you want to poach eggs. **(Only available in American and Mexican country cuisine)**

Egg custard/flan

Select this cooking path if you would like to prepare egg custard, sweet or savoury flans.

Boiled fruits

Select this cooking path if you would like to boil fruits in liquid.

Onsen tamago

Select this cooking process if you would like to prepare Onsen tamago slow cooked egg. (Only available in Japanese, Korean, Thai, Indonesian, Chinese and Hong Kong country cuisine)

Scrambled eggs

Select this cooking process if you want to cook scrambled eggs.

Fried eggs

Select this cooking path if you would like to prepare fried eggs, scrambled eggs or omelettes.

Pasteurise chicken eggs

Select this cooking path if you want to pasteurise chicken eggs for improved preservation. With optimum process hygiene and storage temperatures of < 3 °C, shelf life increases to up to 2 months.

5.2.5 Vegetables and side dishes

Sear

Select this cooking process if you want to fry vegetables and side dishes.

Savoury bakes

Select this cooking process if you want to prepare pasta or vegetable casseroles, paella or gratinated stuffed vegetables.

Baked potatoes

Choose this cooking process if you want to prepare baked potatoes from whole potatoes with the Potato Baker.

Baking/Convenience

Choose this cooking process if you want to prepare side dishes from thin convenience products that are usually prepared in the oven.

Biryani

Select this cooking process if you want to cook rice dishes such as Indian Biryani.

Congee

Select this cooking path if you would like to prepare congee or Chinese rice pudding.

Steam

Choose this cooking process if you want to steam vegetables, fresh or frozen side dishes, and whole potatoes.

Dim sum

Select this cooking path if you would like to prepare Chinese Dim Sum.

Double-boiled soup

Select this cooking process if you would like to prepare Chinese double-boiled soup.

Stew

Select this cooking process if you want to stew vegetables and side dishes, such as ratatouille, red cabbage or onions.

Preserve

Select this cooking process if you want to make fruit or vegetable preserves. To boil down the food, you need a reference container with a lid.

1. Pierce a hole in the lid of the reference container. Do not use the core temperature sensor for this.
2. Fill the food into the desired containers and close them with their lids.
3. Start the cooking process and load the device.
4. Insert the core temperature probe through the hole in the lid of the reference container.

The **Reduce** process controls to an F-value of 0.1. No semi-preserves are produced.

Deep-frying

Select this cooking process if you would like to deep-fry vegetables and side dishes.

Grilling

Select this cooking process if you want to prepare vegetables and side dishes with a grill pattern.

Lentils and pulses

Select this cooking process if you want to cook Indian dal, dried beans or legumes.

Itamemono

Select this cooking path if you would like to prepare Japanese Itamenmono.

Potato gratin

Select this cooking process if you want to prepare au gratin potatoes or other potato casserole dishes.

Dumplings

Select this cooking process if you want to prepare dumplings.

Macaroni casserole

Select this cooking path if you would like to prepare Norwegian macaroni casseroles.

Nimono

Select this cooking path if you would like to prepare Japanese Nimono.

Pasta with sauce

Choose this cooking process if you want to prepare short dried pasta, such as penne or tortellini, without precooking in the sauce. The noodles are ready for serving immediately after the end of the cooking process.

Chips

Select this cooking process if you want to prepare commercially available, pre-fried chips.

Fried rice

Select this cooking process if you want to prepare fried rice dishes.

Steam rice

Select this cooking path if you would like to steam rice or grains, like for example steaming pearl barley or couscous.

Sushi rice

Select this cooking process if you want to make sushi rice.

Dry

Select this cooking process if you want to dehydrate vegetables, mushrooms or fruit. To obtain an ideal result, cut the food to be cooked into thin slices.

Totopos (tortilla)

Select this cooking path if you would like to prepare Mexican totopos or tortilla chips.

Sauteed

Select this cooking process if you would like to deep-fry vegetables and side dishes.

Yoghurt

Select this cooking path if you want to make yoghurt.

5.2.6 Baked goods**Crisp up**

Select this cooking path if you would like to bake either fresh or frozen baked goods or baked goods from the previous service.

Baguette

Select this cooking path if you would like to bake fresh or partly baked baguettes.

Puff pastry

Select this cooking path if you would like to prepare puff pastry or pies.

Bread

Select this cooking path if you would like to bake fresh or partly baked bread.

Bread rolls

Select this cooking path if you would like to bake fresh or partly baked bread rolls.

Cheesecake

Select this cooking path if you would like to bake New York cheesecake without browning. If you would like to bake a German cheesecake with different browning levels, select the cooking path Cheesecake – German.

Croissant

Select this cooking path if you would like to prepare croissants or pastries that need to be steamed before baking.

Eclairs

Select this cooking path if you would like to prepare delicate baked goods from choux pastry.

Macau egg tart

Select this cooking path if you would like to prepare Chinese egg tart Macau.

Proving

Select this cooking path if you would like to prove fresh or frozen yeast or sourdough.

Yeast cakes

Select this cooking path if you would like to bake cakes or pastries made from fresh yeast dough, e.g. yeast wreath, sweet yeast buns or fruit-filled yeast dough.

Cheesecake

Select this cooking path if you want to bake cheesecake with different browning levels. If you would like to bake a New York cheesecake, select the cooking path Cheesecake – New York.

Biscuits

Select this cooking path if you are making shortbread biscuits, e.g. if you want to prepare biscuits, cookies or shortcrust pastry.

Cakes

Select this cooking path if you would like to prepare cakes and biscuit bases.

Soft pretzels

Select this cooking process if you want to make soft pretzels.

Meringue

Select this cooking path if you would like to prepare egg white bakes, for example meringue.

Muffin

Select this cooking path if you would like to bake muffins in the muffin and timbale shape.

Pão de Queijo

Select this cooking path if you would like to bake fresh or frozen Brazilian Pão de Queijo.

Danish pastry

Select this cooking path if you would like to prepare pastries that need to be steamed before baking, e.g. Danish pastries or bagels.

Pizza

Select this cooking path if you want to prepare pizza, filled dough or yeast dough on the grill and pizza plate.

Samosas

Select this cooking path if you would like to prepare Indian dumplings filled with curry.

Soft rolls

Select this cooking path if you want to bake pastries with a browned surface and a soft crust, for example when preparing burger buns or raisin rolls.

Mooncake Su Style

Select this cooking path if you want to bake Su style moon cakes.

European style softbread

Select this cooking path if you want to bake European style soft bread.

Mooncake Cantonese style

5.2.7 Finishing

Serving container

Select this cooking path if you would like to heat up cooked, chilled food in containers to a temperature suitable for consumption.

Heat through

Select this cooking path if you would like to heat up previously cooked dishes to the desired core temperature and keep them at this temperature.

Hold

Select this cooking path if you would like to keep food warm while serving.

Plates à la carte

Select this cooking path to warm food that has already been plated to serving temperature in a la carte operations.

Plated banquet

Select this cooking path if you would like to provide many plates for the service at the same time, e.g. at conferences, weddings or catering events.

Crisp

Select this cooking path if you would like to heat up cooked dishes, like pork knuckle or crispy roasts, to the serving temperature.

Bake à la carte

Select this cooking path to heat baked goods to consumption temperature in à la carte service.

Grill à la carte

Select this cooking path to heat grilled food to consumption temperature in à la carte service.

Pan-frying à la carte

Select this cooking path to heat pan-fried food to consumption temperature in à la carte service.

Sauté à la carte

Select this cooking path to heat up sautéed food to serving temperature in à la carte service.

Steam à la carte

Select this cooking path if you want to heat food to consumption temperature using steam in à la carte service.

Steam à la sauté

Select this cooking path if you want to heat food to consumption temperature using the frying and sautéing climate in à la carte service instead of steam.

5.2.8 Smoke

Hot smoke poultry

Select this cooking path to smoke poultry. The desired core temperature and a simple cooking time can be determined here.

Hot smoke turkey

Select this cooking path to smoke turkey. The desired core temperature and a simple cooking time can be determined here.

Hot smoke fish

Select this cooking path to smoke fish. These can be cooked in parallel. The desired core temperature and a simple cooking time can be determined here.

Hot smoke side dishes

Select this cooking path to smoke side dishes or produce unusual vegetarian or vegan dishes and components. These can be cooked in parallel. The desired temperature and cooking time can be determined by the user.

Low temperature smoking

Select this cooking path to smoke meat pieces gently and cook at the same time. The desired core temperature and a simple cooking time can be determined here.

Braise & smoke

Select this cooking path to smoke meat pieces gently and braise at the same time. The desired core temperature and a simple cooking time can be determined here.

5.2.9 Sous vide

Sous-vide poultry

Select this cooking path if you want to cook poultry meat cuts sous-vide in vacuum bags.

Sous-vide meat

Select this cooking path if you want to cook beef, pork, lamb and game cuts sous-vide in vacuum bags.

Sous-vide seafood

Select this cooking path if you want to cook fish, fish fillets or seafood sous-vide in vacuum bags.

Sous-vide side dishes

Select this cooking path if you want to cook vegetables or saturated side dishes sous-vide in vacuum bags.

5.2.10 Pasteurise

Pasteurise

Select this cooking path if you want to pasteurise containers.

Pasteurise poultry

Select this cooking path if you want to pasteurise poultry pieces in vacuum packs for improved preservation. With optimum process hygiene and storage temperatures of < 3 °C, shelf life increases to up to 2 months.

Pasteurise_meat

Select this cooking path if you want to pasteurise containers.

Pasteurise chicken eggs

Select this cooking path if you want to pasteurise chicken eggs for improved preservation. With optimum process hygiene and storage temperatures of < 3 °C, shelf life increases to up to 2 months.

Pasteurise convenience food

Select this cooking path if you want to pasteurise pre-cooked products in vacuum packs for improved preservation. This cooking path is particularly suitable for producing your own convenience food.

Pasteurise containers

Select this cooking path if you want to heat prepared food in GN containers for service and pasteurise at the same time.


5.3 Cooking food intelligently

5.3.1 Calling up intelligent cooking process

You can call up an intelligent cooking path in 2 ways:



- Via iCookingSuite
- Via the programming mode [▶ 64]

iCookingSuite

1. Press the button in the menu bar: 
 - > In the iCookingSuite, you can call up an intelligent cooking path in 3 ways:
 - Select the desired cooking mode, e.g. **vegetables and side dishes**.
 - Select the desired cooking method, e.g. **grilling**.
 - Select the desired cooking mode and cooking method.

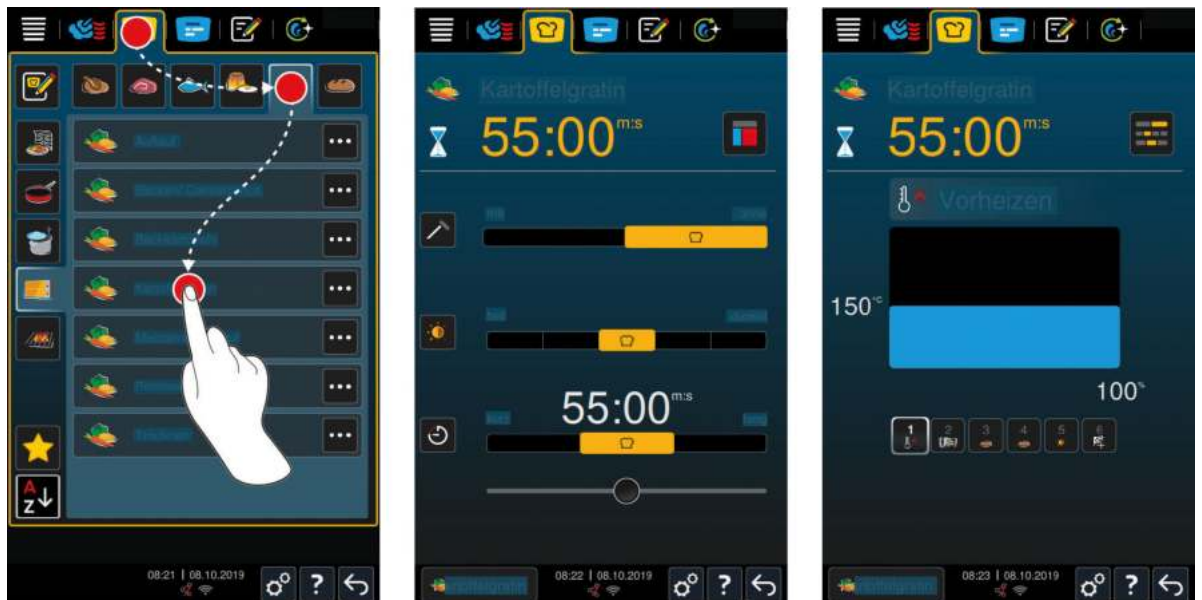
Once you have selected these, the corresponding intelligent cooking paths will be displayed.



Programming mode

1. Press the button in the menu bar: 
2. Press the button 
 - > All stored intelligent cooking paths will be displayed.

5.3.2 Starting intelligent cooking process

In this section, the **potato gratin** cooking path will be used to show how an intelligent cooking path runs. Please note that every intelligent cooking process leads to the desired result with different cooking parameters and the ideal sequence of cooking steps.



1. Press the button in the menu bar: 
2. Press the button 
3. Press the button **Potato gratin**
 - > The intelligent cooking process will start and the cooking cabinet will be preheated to the defined climate.
4. Set the desired cooking result using the cooking parameters [▶ 39] Examples of cooking parameters can be core temperature, browning level or time.
 - > After a short time, the display in the Cockpit [▶ 43] will switch.
 - > Once the set climate has been reached, you will be prompted to load the unit.

5. Load the unit.
6. Close the cooking cabinet door.
 - > The cooking process will continue.
7. Follow the prompts of the unit.
 - > When the cooking time has elapsed or the core temperature has been reached, an acoustic signal will ask you to check whether the food has reached the desired result.
8. If the cooking result meets your requirements, take the food out of the cooking cabinet.
9. If the cooking result does not yet meet your requirements, continue the cooking process with one of the suggested options.

5.3.3 Pre-program start time

With the pre-programmed start time, you can set the start time for the cooking path to the minute. This means you can make use of cheaper night electricity or variable electricity rates and fully utilise your unit for up to 24 hours per day.

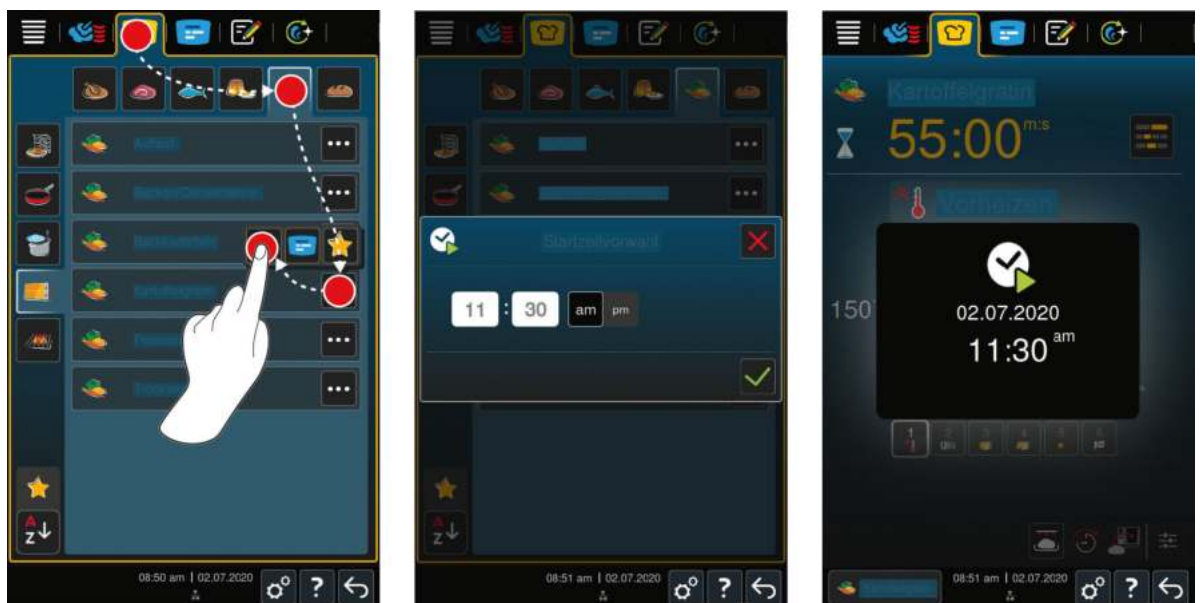
⚠ WARNING

If you leave food in an unheated cooking cabinet for a longer period, bacteria may form on the food


Non-aseptic foods may result in foodborne infections and food poisoning.

1. Do not leave the food standing in the cooking cabinet for too long.

In this section, the **potato gratin** cooking path will be used to show how to pre-program the start time.



1. Press the button in the menu bar: 📦
2. Press the button 🍷
3. Press the button next to the **potato gratin** cooking path:⋮
4. Press the button 🕒
5. Enter the start time.
6. To confirm the action, press the button: ✓
 - > The cooking parameters of the cooking path are displayed. You can customise the cooking result as you wish. After a short time, it will show that the pre-programmed start time has been activated.
7. Load the unit.
8. Close the cooking cabinet door.

>> The cooking path starts at the set time. If you want to abort the pre-programmed start time, press and hold the button: 

5.4 Adjusting cooking result to own requirements

Depending on which intelligent cooking process you have selected, different cooking parameters and functions will be displayed. The cooking processes use standard settings for your country in order to achieve the ideal cooking results. You can adjust these cooking parameters to your requirements with simple moves [▶ 18] or the central dial [▶ 18] and select additional functions. Depending on these settings, the cooking process workflow will vary. You can monitor the sequence at any time in the Cockpit [▶ 43].

5.4.1 Cooking parameters



Frying level

With these cooking parameters, you can set whether you want to sear the food or not. Select any level to adjust the searing intensity to your requirements. A high searing level and a short cooking time result, for example, in low cooking losses. If you select **without**, the **searing** cooking step will be skipped. Select **without** if you want to gently cook smaller pieces of meat that have already been seared.

NOTICE

There are cooking paths where even the lowest level is a searing level, such as "Meat large roast". The "without searing" option is not available here.

If you need to crisp the food at the end of the cooking process, select a lower searing level.

The very high searing temperatures safely kill the bacteria on the exterior of the food. This means that food is cooked hygienically even at a lower core temperature.



Browning

With this cooking parameter, you can set how brown the surface of the food should be. Select any level to adjust the intensity of the browning to your requirements. Food that is marinated with spices, herbs or pastes that support browning will brown quicker and more intensely. In these cases, select a lower browning level.



Food thickness

With this cooking parameter, you can set whether the food is thin or thick. Select **without core probe** for food thinner than 2 cm. Select **with core probe** for food thicker than 2 cm.



Size of food

With this cooking parameter, you can set how large the food is.

- Select **small** for eggs weighing less than 53 g. Select **large** for eggs weighing more than 64 g.



Cooking cabinet humidity

With this cooking parameter, you can set the humidity in the cooking cabinet.



If you would like to finish or cook food sous-vide, select the following settings:

Level	Suitable for
Level 1 – dry	Select this level if you want to cook food that does not require any additional humidity, e.g. breaded food or chips.
Level 2	Select this level if you want to cook food that requires a little additional humidity, e.g. stewed vegetables.
Level 3	Select this level if you want to cook different foods at the same time.
Level 4 – humid	Select this level if you want to cook food that requires a lot of additional humidity, e.g. rice or poached fish.



Cabinet temperature

With this cooking parameter, you can set the temperature in the cooking cabinet.

- If the heating element is active to reach the set cabinet temperature, the following symbol will be displayed: 
- If the cabinet temperature is reached, the following symbol will be displayed: 

You can view the current cooking cabinet humidity and cabinet temperature as follows:

1. Press and hold the button:
 - > After 10 seconds, the current cabinet temperature will be displayed.
2. To revert to the set parameter values, release the button.



Cooking time

With this cooking parameter, you can set the time in which the food will reach the desired cooking result or the desired cooking level. In most intelligent cooking processes, you can let your unit run uninterrupted with the settings you apply. To do this, switch on continuous operation.

1. Select the level marked with **Continue**.

If you have set the cooking time, the **core temperature** cooking parameter will not be available.



Core probes

With this cooking parameter, you can set whether the food is to be cooked with or without the core probe. You can then set the desired core temperature of the food. For product sizes with a thickness of more than 2 cm, it is recommended to use the core probe.



Core temperature

With this cooking parameter, you can set how high the core temperature or the cooking level of the food should be.

Please adhere to the applicable hygiene regulations for the relevant food in your country when setting the core temperature.

Cooking level

With this cooking parameter, you can set the cooking level of the food. Every cooking level is assigned to a core temperature which you can adjust to your requirements. If you want to cook food using low temperature cooking, the core temperature is up to 10 °C lower, in combination with a retention time, than in other cooking methods. If you are cooking poultry, always ensure a hygienic core temperature of at least 72 °C. Please adhere to the HACCP regulations for your country.



Delta-T cooking

With this cooking parameter, food is cooked while maintaining a constant difference between cooking cabinet temperature and core temperature. By slowly increasing the cooking cabinet temperature with a constant difference with the core temperature, the food is cooked slowly and very gently. This minimises cooking losses. You can set a difference between 5 °C and 60 °C. You must set the desired core temperature when working with Delta-T cooking.

The smaller the difference between the cooking cabinet temperature and the core temperature, the slower and more gently the food will be cooked. The bigger the difference between the cooking cabinet temperature and the core temperature, the faster the food will be cooked.



Cooking speed


With this cooking parameter, you can set the temperature control in the cooking cabinet. If you select **gentle**, food is cooked for a longer time at gentle temperatures. If you select **normal**, food is cooked at higher temperatures and in a shorter time. **NOTICE! The cooking process can be accelerated when switching from gentle to normal.**

5.4.2 Additional functions




Cooking cabinet humidity

With this additional function, you can set the humidity in the cooking cabinet. There are 2 available levels. The higher the selected level, the more humidity will be in the cooking cabinet, and the humidity level is higher throughout the entire cooking process.

If you want to cook food that does not require any additional humidity, press the button:  No additional humidity will be added to the cooking cabinet.




Roast

With this additional function, leave the food in the cooking cabinet to prove at the optimal temperature. There are 5 available levels. The higher the selected level, the longer the food will prove in the cooking cabinet. If you want to cook food without a proving phase, press the button: 



Flash steam

With this additional function, humidity is added to the cooking cabinet at the start of the baking process. The surface of the food is humidified, the steam condenses and you get crispy crusts on rolls and optimal oven operation. The higher the selected level, the more humidity will be added to the cooking cabinet. If you want to cook food without flash steaming, press the button: 



Air speed

With this additional function, you can set the speed of the fan wheel. There are 2 available levels. The higher the selected level, the higher the air speed will be. Select a lower level for small delicate foods.

5.4.3 Prompts



Abort

All running cooking processes will be aborted



Load

You will then be prompted to load the unit with food.



Confirm

You will be prompted to confirm an action.



Brushing

You will be prompted to brush the food, e.g. baked goods with egg.



Carve

You will be prompted to cut into the food, e.g. rinds or baked goods.

Reset core probe

You will be prompted to re-insert the core probe into the food.



Core probe in food

You will be prompted to insert the core probe into the food.



Pierce

You will be prompted to pierce the food, e.g. crispy pork.



Fill up

You will be prompted to fill up the container with liquid, e.g. for braised dishes.



Mix

You will be prompted to mix the food.

5.4.4 Information

During a cooking process, the cooking steps the unit is currently performing will be displayed.



Preheat

The unit will be preheated to the temperature that is set either as the standard setting in the manual modes or in the intelligent cooking processes.



Residual time

The intelligent cooking process stills needs the time displayed to finish.



Cooking process end

The end of the cooking process has been reached.

5.4.5 Options

If you have started a cooking path, all the available options are displayed. You can already select the **Overcrust** and **Maintain** options when the cooking path is running. You can only select the options **Change core temperature probe**, **New batch**, **Continue with time** and **Heat up to output temperature** when the end of the cooking path has been reached.




Hold

With this option, either the cooking cabinet climate or the core temperature of the food is held for a certain time. If you select this option, the food will be held at the preset cooking cabinet temperature or the core temperature for up to 24 hours. This prevents overcooking. To keep cooking losses as low as possible, it is recommended that the food only be left in the cooking cabinet with the **Hold** option for a short time.

In some cooking paths, such as low-temperature roasting, the **Hold** option is the last cooking step and is automatically started once the desired cooking result has been achieved. If you are cooking food of different sizes, plan a longer hold phase so that all the pieces of food reach the desired core temperature.

Well-matured meat, smaller meat pieces and game should not stay in the cooking cabinet with the **Hold** option for too long. Very young and insufficiently matured beef will on the other hand become tender.


1. To adjust the parameters of the **Hold** option, press the button: 
2. Adjust the parameters as required.

>> When the end of the cooking path has been reached, the **Hold** cooking step is automatically started.



Move

Select this option if you are cooking foods of different sizes or different foods with different cooking levels using the core probe:

1. If the set core temperature is reached, open the cooking cabinet door.
2. Insert the core probe into a larger piece of the food or the food with the higher core temperature.
3. Remove all the smaller pieces of the food from the cooking cabinet.
4. Close the cooking cabinet door.
5. Press the button 
 - > A window appears in which you can set the core temperature.
6. Choose the desired core temperature.

>> Your setting will be applied automatically after just a few seconds.

Repeat this step until all the food has reached the desired core temperature.



New batch

With this option, you can load the unit with a new batch and continue the cooking process with the defined cooking parameters.

First you will be asked to unload the unit and then load it again. When you have loaded the unit with a new batch and you close the cooking chamber door, the cooking path continues.



Time continued

With this option, the cooking process will continue for a certain time. If you select the option at the end of the cooking path, a window appears where you can set how long you would like the cooking path to be continued for.

1. Select the desired duration.

>> Your setting will be applied automatically after just a few seconds.

If you switch from the cockpit back to the cooking parameters, the overview is greyed out. You cannot change the cooking parameters. Once the time you have set has expired, you can either unload the unit or continue the cooking path with an option.



Crisp

With this option, food is crisped to produce crispy crusts and roast aromas.

In mixed loads, take the food you do not want to crisp out of the unit. Then start the **Crisping** option

If you have cooked food in containers and some liquid fat has accumulated during cooking, replace the container before starting the **Crisping** option. This prevents the build up of unnecessary smoke during crisping.

If the food does not have the desired crust or colour after crisping, select the **Continue with time** option. You can then set how much longer the food should crisp for.

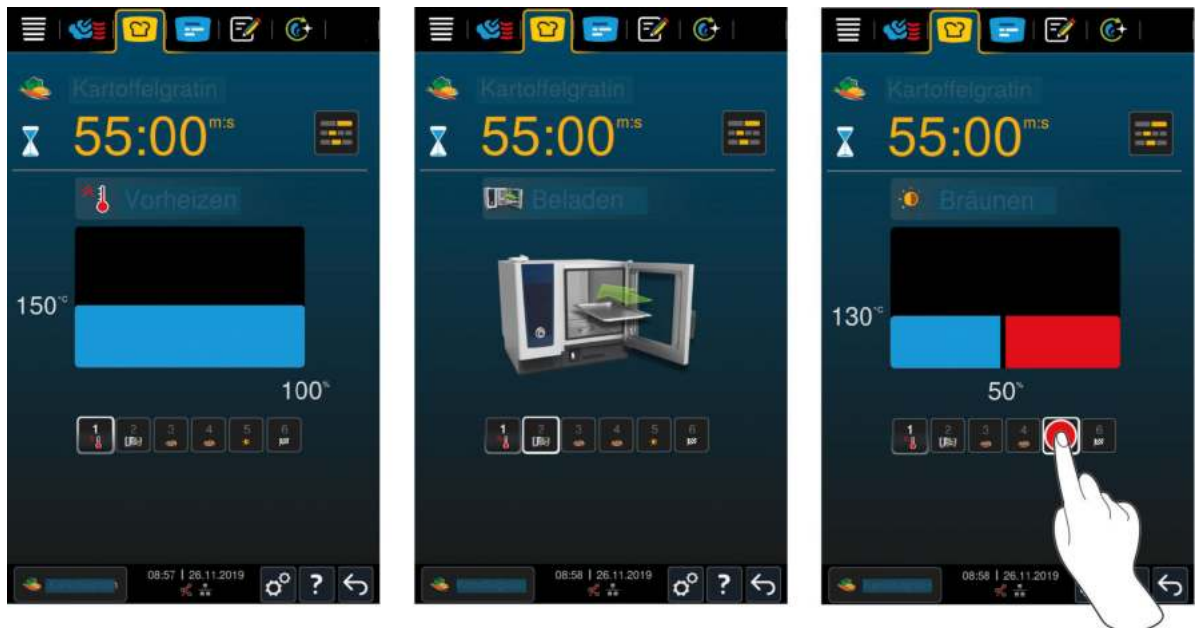
Rare food is not suitable for crisping. The high temperature would produce grey edges.

1. To adjust the parameters of the **Crisp** option, press the button: 

2. Adjust the parameters as required.

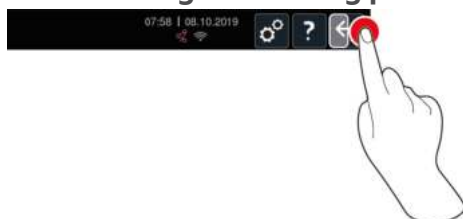
>> When the end of the cooking path has been reached, the **Crisp** cooking step is automatically started.


5.5 Monitor the intelligent cooking path



If you have started an intelligent cooking path, the display changes to the cockpit after a short time. All cooking steps that the intelligent cooking path processes are displayed here one after the other. The active cooking step is highlighted. The cooking steps that will take place in the future are greyed out. When the cooking step is completed, the next cooking step is automatically displayed.




5.6 Abort intelligent cooking path



1. Press and hold the button: 
 - > The cooking path is cancelled. The start screen will appear.

5.7 Arrange intelligent cooking paths

In the iCookingSuite, you can either arrange the intelligent cooking paths alphabetically or according to the frequency of use.

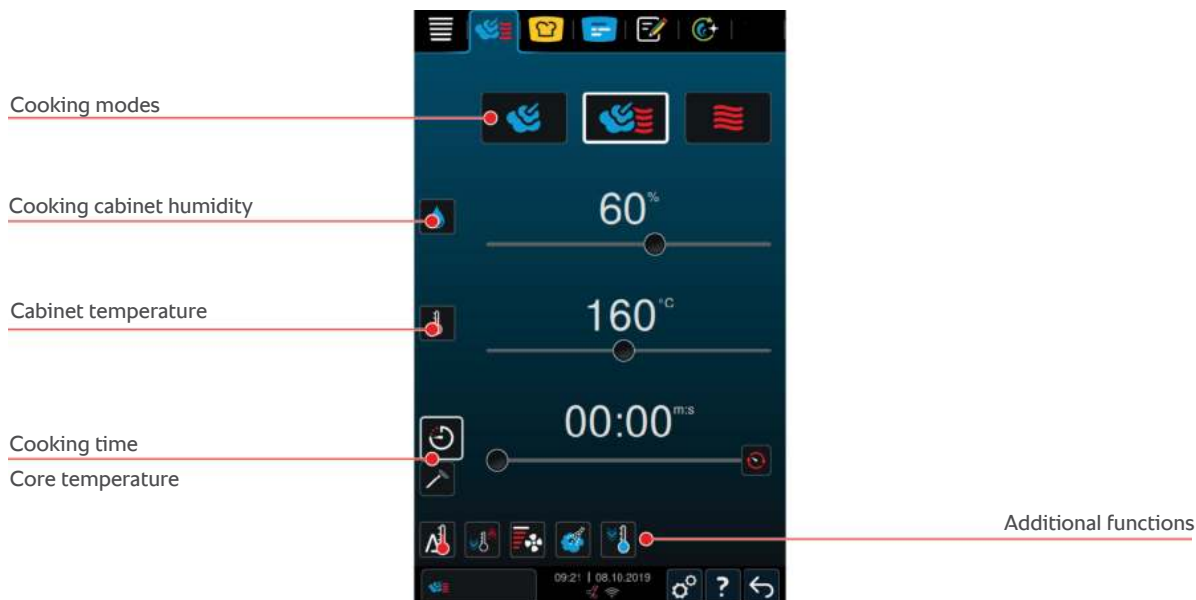
1. To arrange the intelligent cooking paths alphabetically, press the button:  
2. To arrange the intelligent cooking paths according to the frequency of use, press the button: . This button sorts the cooking paths that were previously selected as favourites to the top.

6 Manual cooking



With the manual modes, the iCombi Pro supports you in your personal craft.

By selecting this mode, you set the climate and select whether you want to cook the food in steam, with convection heat or with a combination of steam and convection. Then you set the cooking cabinet temperature, the air speed and cooking time and make all the necessary decisions yourself. This gives you control to ensure the food is cooked exactly as your want it.



6.1 Adjusting cooking result to own requirements

6.1.1 Cooking parameters



Cabinet temperature

With this cooking parameter, you can set the temperature in the cooking cabinet. If you set the temperature to boiling temperature in the **Steam** mode, the following symbol will be displayed:

You can view the current cooking cabinet humidity and cabinet temperature as follows:

1. Press and hold the button:
 - > After two seconds, the current cabinet temperature will be displayed permanently.
2. To return to the set parameter values, press and hold the button again.



Cooking cabinet humidity

With this cooking parameter, you can set the humidity in the cooking cabinet.


- In the **Steam** mode, the cooking cabinet humidity is 100 % and cannot be changed.
- In the **Combination of steam and hot air mode**, extra humidity is injected by the steam generator in addition to the humidity from the food. If the set cooking cabinet humidity is exceeded, the cooking cabinet will be dehumidified.
- In the **Hot Air Mode**, the humidity is not injected by the steam generator, but comes from the food. If the set cooking cabinet humidity is exceeded, the cooking cabinet will be dehumidified.



Cooking time

With this cooking parameter, you can set the time in which the food will reach the desired cooking result. If you have set the cooking time, the **core temperature** cooking parameter will not be available.

Alternatively, you can let your unit run uninterrupted with the settings you apply. To do this, switch on continuous operation.

1. If you want to operate your unit in continuous operation, press either on  or slide the cooking time regulator fully to the right until the following message is displayed: **Continuous operation**



Core temperature

With this cooking parameter, you can set how high the core temperature of the food should be. If you have set the core temperature, the **cooking time** cooking parameter will not be available.

6.1.2 Additional functions



Delta-T cooking

NOTICE

Please note that with Delta-T cooking with a cooking time, the core probe must also be placed in the product.

With this additional function, food is cooked while maintaining a constant difference between the cooking cabinet temperature and core temperature. By slowly increasing the cooking cabinet temperature with a constant difference with the core temperature, the food is cooked slowly and very gently. This minimises cooking losses. You can set a difference between 20 °C and 60 °C. The smaller the difference between the cooking cabinet temperature and the core temperature, the slower and more gently the food will be cooked. The bigger the difference between the cooking cabinet temperature and the core temperature, the faster the food will be cooked.

Either a target temperature or a desired cooking time can be set. If a target core temperature is set for the product, the cooking cabinet temperature is automatically regulated via the difference between the set delta temperature and the set core temperature. If a cooking time is set for the product, the cooking cabinet temperature is automatically regulated via the difference between the set delta temperature until the end of the set cooking time.



Create climate

With this function, the cooking cabinet temperature is adjusted to the target value of a cooking process. If you switch cooking processes, e.g. from grilling to baking food, the cooking cabinet will be cooled. If you switch from baking to grilling, the cooking cabinet will be heated.




Air speed

With this additional function, you can set the speed of the fan wheel. The higher the selected level, the higher the air speed will be. Select a lower level for small delicate food.



Humidification


With this additional function, water will be sprayed onto the heating element by the moistening nozzles during cooking. The surface of the food is humidified, the steam condenses and you get crispy crusts on your rolls and optimal oven operation. The cooking cabinet temperature must be between 30 – 260 °C.

1. Press and hold the button: 
- >> The moistening nozzles will spray water onto the fan wheel for as long as you press the button.



Cool-down function

If you have cooked food at high temperatures, and then need a lower cooking cabinet temperature, you can cool down the cooking cabinet using the cool down function.

- ✓ The air baffle is correctly locked.
1. Press the button 
 - > Select the temperature to which the cooking cabinet should be cooled.
 2. **⚠ WARNING! Scalding hazard! When you open the cooking cabinet door, hot steam will surge out of the cooking cabinet.** Open the cabinet door.
- >> **⚠ WARNING! Risk of injury! When you open the cooking cabinet door, the fan wheel will not stop. Do not reach into the cabinet, rotating fan wheel.** The speed of the fan wheel will increase. The cooking cabinet will be cooled.

6.1.3 Prompts and information

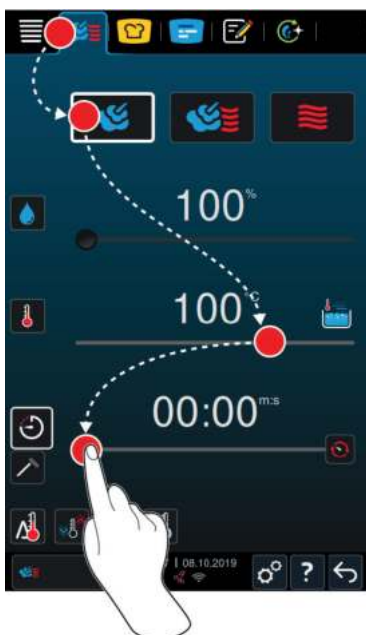
During the cooking process, you may see the same prompts and information [► 41] as in intelligent cooking processes.





6.2 Steam

6.2.1 Cooking climate and temperature range

Cooking cabinet climate	Cooking methods	Cooking cabinet humidity	Cabinet temperature
moist	<ul style="list-style-type: none"> ▪ Steam ▪ Stew ▪ Blanch ▪ Heat through ▪ Soak ▪ Sous-vide cooking [► 51] ▪ Defrost ▪ Preserve 	100 %	30 – 130 °C

6.2.2 Cook food in steam



1. Press the button in the menu bar: 
 2. Press the button 
 - > The unit is heating up. To do this, the time or the core probe must first be set.
 3. Set the desired cooking cabinet temperature.
 4. Set the cooking time. 
 5. To cook the food with the core temperature, press the button: 
 6. Set the core temperature.
 - > Once the set cooking cabinet temperature has been reached, you will be prompted to load the unit.
 7. Load the unit.
- >> The cooking process will continue. If the cooking time has elapsed or the core temperature has been reached, an acoustic signal will ask you to check whether the food has reached the desired result.

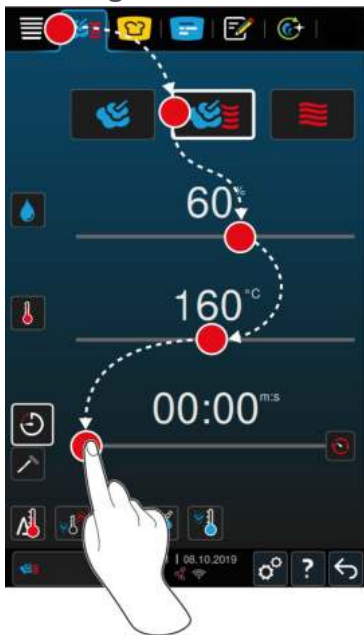
6.3 Combination of steam and convection heat




6.3.1 Cooking climate and temperature range

Cooking cabinet climate	Cooking methods	Cooking cabinet humidity	Cabinet temperature
humid and hot	<ul style="list-style-type: none"> ▪ Bake ▪ Fry 	0 - 100 %	30 – 300 °C

If the cabinet temperature is above 260 °C for 30 minutes, the temperature will be automatically reduced to 260 °C if you do not work with the unit within this period. If you perform an action within these 30 minutes, such as opening the cooking cabinet door, then the cooking cabinet temperature will be held at 260 °C for another 30 minutes.

6.3.2 Cooking the food in the combination of steam and hot air



1. Press the button in the menu bar: 
 - > The unit is heating up. To do this, the time or the core probe must first be set.
 2. Set the desired cooking cabinet humidity to the exact percentage.
 3. Set the desired cooking cabinet temperature.
 4. Set the cooking time. 
 5. To cook the food with the core temperature, press the button: 
 6. Set the core temperature.
 - > Once the set cooking cabinet temperature has been reached, you will be prompted to load the unit.
 7. Load the unit.
- >> The cooking process will continue. If the cooking time has elapsed or the core temperature has been reached, an acoustic signal will ask you to check whether the food has reached the desired result.

6.4 Convection

6.4.1 Cooking climate and temperature range





Cooking cabinet climate	Cooking methods	Cooking cabinet humidity	Cabinet temperature
hot	<ul style="list-style-type: none"> ▪ Bake ▪ Fry ▪ Grill 	0 - 100 %	30 – 300 °C

Cooking cabinet climate	Cooking methods	Cooking cabinet humidity	Cabinet temperature
	<ul style="list-style-type: none"> ▪ Deep-fry ▪ Gratinata ▪ Glaze 		

If the cabinet temperature is above 260 °C for 30 minutes, the temperature will be automatically reduced to 260 °C if you do not work with the unit within this period. If you perform an action within these 30 minutes, such as opening the cooking cabinet door, then the cooking cabinet temperature will be held at 260 °C for another 30 minutes.

6.4.2 Cook food in convection heat



1. Press the button in the menu bar: 
2. Press the button 
 - > The unit is heating up.
3. Set the desired cooking cabinet temperature.
4. To cook food with the cooking time, press the button: 
5. Set the cooking time.
6. To cook the food with the core temperature, press the button: 
7. Set the core temperature.
 - > Once the set cooking cabinet temperature has been reached, you will be prompted to load the unit.
8. Load the unit.
 - >> The cooking process will continue. If the cooking time has elapsed or the core temperature has been reached, an acoustic signal will ask you to check whether the food has reached the desired result.

6.5 Abort manual cooking



1. Press and hold the button: 

- > The cooking process is cancelled. The start screen will appear.

7 Sous-vide cooking

In sous-vide cooking, food is prepared, seasoned, marinated or seared, vacuum-packed in a sous-vide bag and then cooked. This intensifies the food's own flavour, preserves the natural colours, precious vitamins and minerals are retained and cooking losses are reduced thanks to the gentle cooking. After cooking, the food must be cooled. Before the food is served, it is reheated still in the plastic bag, then removed from the bag and then finished according to the final dish.

Sous-vide cooking is particularly suitable for the following uses:

- **Cook and chill**
Produce your dishes centrally in a production kitchen and then deliver the dishes to satellite kitchens. This avoids expensive over-production, as you only finish the dishes you actually need.
- **Room service**
Produce your dishes or individual components, cool them down and finish the individual portions to order. This means even semi-skilled kitchen staff can cater for your guests to a high quality 24 hours a day.
- **Special diets and clean eating**
Gently produce healthy dishes and preserve the natural flavours and aromas. With the addition of aromatics, even unsalted dishes can taste naturally rich.

8 Low temperature cooking

Cooking large meat and poultry products requires a great deal of monitoring and many years of cooking experience. Your units are also blocked for hours. With your cooking system, you can face these challenges with ease: You can slowly roast, boil or braise food at low temperatures during low-production periods, such as in the afternoon or in non-service periods. This means you can make full use of your unit for up to 24 hours a day. And if you cook food overnight, you can also save energy by using night tariffs.



TIP

If there is a power cut during a low temperature cooking process, the cooking process will be interrupted. If the power cut lasts less than 15 minutes, the cooking process will continue. If the power cut lasts longer than 15 minutes, the unit will switch to standby mode after the power cut. You must either restart the cooking path from the time the power failure occurred or finish cooking the food manually.

9 Finishing

Using Finishing, you can separate your food production from service and thus give yourself some freedom for the important things in cooking: planning, menu design or creative plating. Quality losses from keeping food warm are minimised and perfect food quality is assured.




- Only finish the foods that you actually need, adjust the required food to your guest numbers.
- Avoid rushing and stress when plating thanks to shorter production and service times.
- Reduce staff costs with efficient time management and shorter paths to the guest.
- Hold multiple events simultaneously and increase your occupancy, without any additional costs.

With Finishing, you can produce perfect food quality in a wide variety, whether in a restaurant, hotel or industry catering:

- Finishing in a restaurant
The food is finished exactly when you need it.
- Finishing in a hotel
Plated Finishing is particularly ideal when you need to serve many plates at the same time, e.g. at conferences, weddings or other catering events.
- Finishing in industry catering
Container Finishing is ideal when you need to offer a wide variety of food in large quantities.

9.1 Adjust plate weight à la carte

Before you start the finishing, set how heavy an empty plate is. With the help of this information, the unit will adjust the cooking steps, so that you achieve an ideal finishing result and no moisture condenses on the plates.




1. Press the button 
2. Press the button  **Cooking**
3. Press the button  **À la carte plate weight**
4. Select one of the following values:
 - <750 g
 - 750 g – 899 g
 - 900 g – 1099 g
 - >1100 g

9.2 Adjust banquet plate weight

NOTICE

Insert the core probe into the ceramic tube on the right side of the mobile plate rack after loading to prevent material damage.

Before you start the finishing, set how heavy an empty plate is. With the help of this information, the unit will adjust the cooking steps, so that you achieve an ideal finishing result and no moisture condenses on the plates.

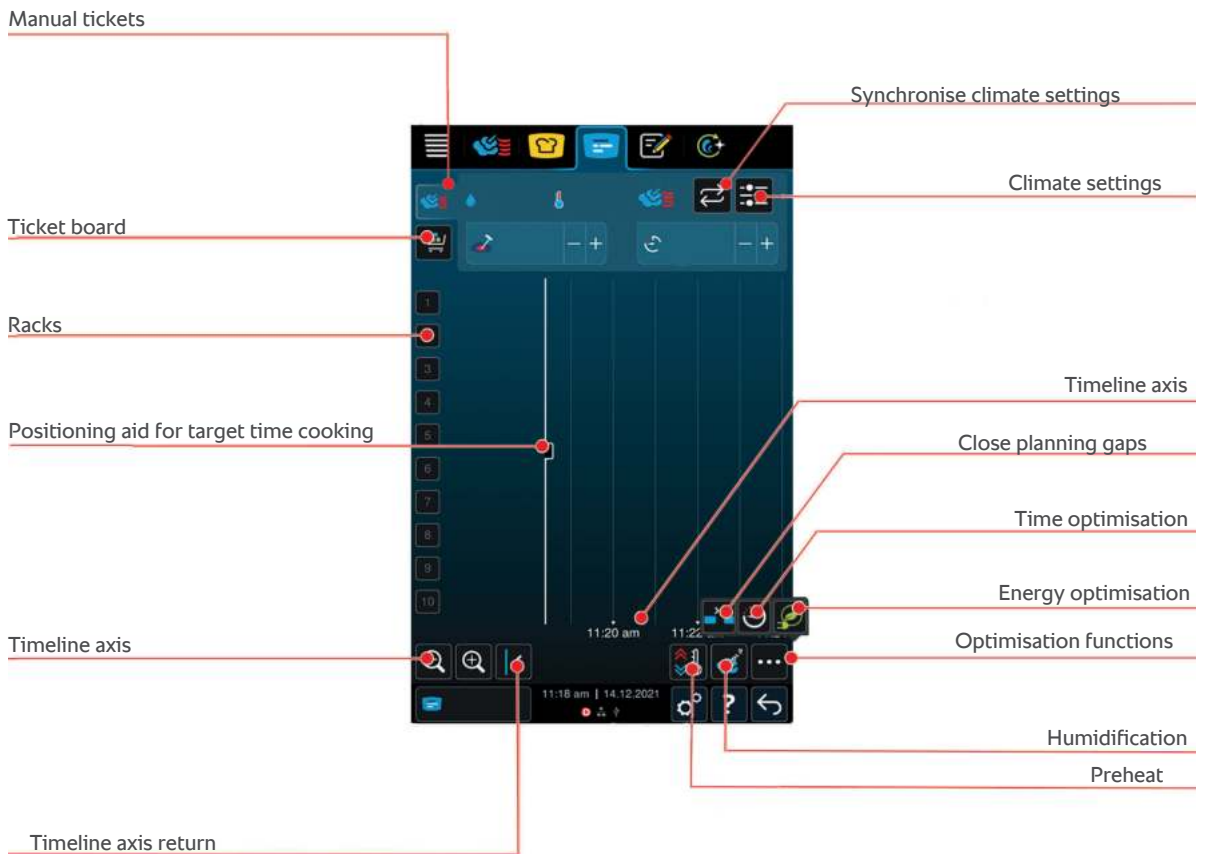
1. Press the button 
2. Press the button  **Cooking**
3. Press the button  **Banquet plate weight**
4. Select one of the following values:
 - <750 g
 - 750 g – 899 g
 - 900 g – 1099 g
 - >1100 g

10 iProductionManager



The iProductionManager organises the entire production process intelligently and flexibly. This includes which products can be cooked together, the optimal preparation sequence of the dishes and the monitoring of the cooking path.











The iProductionManager will remind you when a product needs to be loaded or taken out. You can decide whether the food is cooked energy-optimised, time-optimised or with a specific target time. Accordingly, the iProductionManager intelligently arranges the preparation order of the dishes. For you this means that you always have everything under control, without checking or monitoring, therefore achieving high efficiency in your food production.



10.1 Create manual tickets

You can add manual tickets to the iProductionManager. You first set the climate and then choose if the ticket should be created using the cooking time or the core temperature. Please note: If you are cooking food with the integrated core temperature probe, you can only place one manual core temperature ticket on the time axis at one time.






1. Press the button in the menu bar: 
 2. Press the button 
 3. Press the button 
 4. Select the cooking mode steam [▶ 47] , combination of steam and convection [▶ 48]  or convection [▶ 48] 
 5. Adjust the cooking parameters as required. You can also set the speed of the fan wheel. To do this, press this button: 
 6. To save your changes, press the button: 
 7. If you want to increase or decrease the core temperature or increase or decrease the cooking time, either turn the central setting wheel or press the buttons:  or 
 8. Press the button repeatedly until the desired setting is reached.
- >> You can now place the ticket [▶ 57].



10.2 Ticket board


You can add the desired intelligent cooking path or any program or shopping cart you want to the ticket board. If you do not save the ticket board as a shopping cart [▶ 68], the ticket board will be overwritten as soon as you upload a new shopping cart.

10.2.1 Add intelligent cooking paths

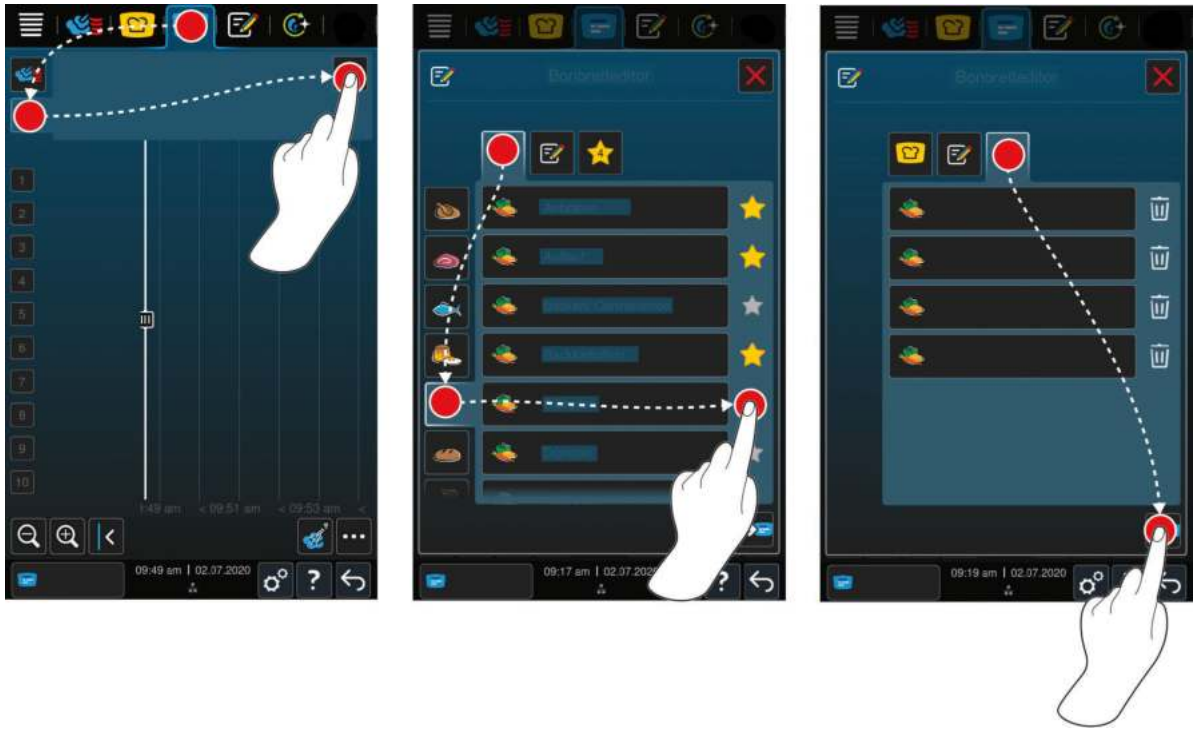
1. To send an intelligent cooking path from the iCookingSuite to the iProductionManager, press the button in the menu bar: 
 2. Press the button next to the desired cooking path: 
 3. Press the button 
- >> The intelligent cooking path is sent to the iProductionManager and displayed on the ticket board.











10.2.2 Add programs and shopping carts

1. Press the button in the menu bar: 
2. To send a manual or intelligent program to the iProductionManager, press the button next to the desired program: 

3. Press the button 
 - > The program is sent to the iProductionManager and displayed on the ticket board.
4. To send a shopping cart to the iProductionManager, press the desired shopping cart.
 - > The shopping cart is sent to the iProduction Manager. All programs are displayed in the ticket board.

10.2.3 Ticket board editor




1. Press the button in the menu bar: 
 2. Press the button 
 3. Press the button 
 4. To add intelligent cooking paths to the shopping basket, press the button: 
 - > All intelligent cooking paths are displayed.
 5. Scroll through the list or select a cooking mode and then press the desired cooking path.
 - > The cooking path is marked  and added to the ticket board.
 6. To add programs from the programming mode to the shopping basket, press the button: 
 - > All saved programmes are displayed. If you have not yet created any programs, this field will be empty.
 7. Scroll through the list or select manual or intelligent programs and then press the desired program.
 - > The program is marked  and added to the ticket board.
 8. To check the configuration of the ticket board, press the button: 
 9. To delete an intelligent cooking path or a program, press the button: 
 10. To update the ticket board, press the button: 
- >> The intelligent cooking paths or tickets are displayed on the ticket board. You can now place the ticket [▶ 57].


10.3 Timer

Even if the combination check [▶ 58] prevents the placement of a ticket, you can place a timer. The timer is a time ticket assigned with 5 minutes as standard. The timer does not have its own climate, this means that a climate is not created when only placing a timer or that this does not affect the climate. You can adjust the duration of the timer as required and place it either at the current time or in the future.



1. To place the timer at the current time, first press the timer on the ticket board and then on the desired rack level.
 - > The timer is placed at the current time.
 2. To place the timer in the future, drag the timer to the desired rack level and desired start time.
 3. To move the timer to another rack level and to change the start time, press and hold the timer.
 4. Drag the timer to the desired position.
 5. To extend or shorten the duration of the timer, briefly press on the timer.
 6. Either turn the central dial or press on the buttons: **+** or **-**
 - > After a brief waiting period, the settings will be applied.
- >> When the timer expires, you will be asked to unload the unit. The symbol  appears next to the rack level. The cooking time is 00:00.

10.4 Place ticket


- ✓ You have created manual tickets [▶ 54], shopping carts [▶ 55] or a ticket board [▶ 56].
1. Drag a ticket to the desired rack level.
 - > For best orientation, the rack level where you want to place the ticket is highlighted in blue. As a further help, the time is shown on the ticket.
 - > If the rack level is marked in yellow or red, you cannot place the ticket without moving the already placed tickets. Click here for more information: Combination check [▶ 58] and locating logic [▶ 58]
 2. If you have placed several tickets, review the time axis to get an overview. To do this, press this button: 

The following options are available to optimise the placement of tickets:


- Close planning gaps [▶ 58]
- Time optimisation [▶ 59]
- Energy optimisation [▶ 60]
- Target time cooking [▶ 61]

If you place tickets at the actual time, a vertical yellow or blue bar appears:

- A yellow bar indicates that the cooking chamber is heating up.
- A blue bar indicates that the cooking chamber is cooling down using the cool-down function.
- The width of the bar indicates how long it takes to heat up or cool down.

When the desired temperature is reached, you will be asked to load the unit. The symbol  appears next to the rack level.

After you have loaded the unit, the rack level shows how long the food stays in the cooking chamber.

When the cooking process of the ticket is finished, you will be asked to unload the unit. The symbol  appears next to the rack level. The cooking time is 00:00.

10.4.1 Combination check

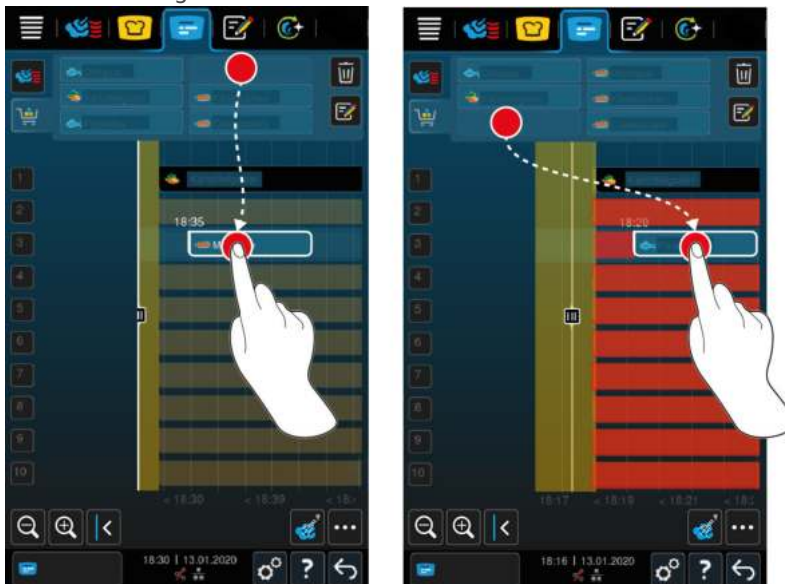
Each ticket that you want to place in the iProductionManager is checked to see if the new ticket matches the tickets already placed and if they can be placed at the desired time. The tickets are separated based on the following 3 values and checked independently:

- An operating mode is assigned to each ticket. It is checked whether the operating modes fit together.
- A cooking chamber temperature is assigned to each ticket. It is checked whether the cooking chamber temperatures match.
- A cooking chamber humidity is assigned to each operating mode. It is checked whether the cooking chamber humidity levels match.

Both manual operating modes and intelligent cooking paths are tested for their compatibility. You can only combine cooking paths that are cooked in the same climate. Cooking paths that go through different climates, like for example low temperature roasts cannot be combined with other tickets. Furthermore, only one-step manual programs can be combined.

10.4.2 Placement logic

Based on the combination check, the iCombi Pro decides in which position the ticket will be placed. Depending on the result of the check, the tickets are optimally placed in the iProductionManager. The iProductionManager uses a coloured marking on the shelf levels to indicate if a new ticket has an effect on already placed tickets:

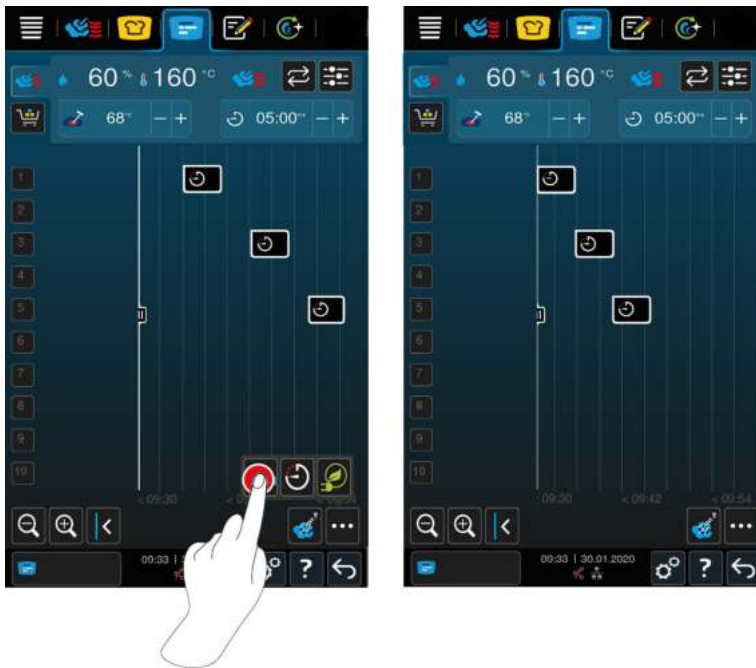


- If the shelf levels are marked in yellow, you can place a ticket, but other already placed tickets are moved.
- If the background is red, you cannot place the ticket, because a ticket is already being processed.

If you move a ticket, the entire block where the ticket was placed after the combination check is moved.

10.4.3 Close planning gaps

You can programme your unit to automatically close the time gaps that arise when placing tickets across all shelf levels.



✓ You have created and placed tickets.

1. Press the button 

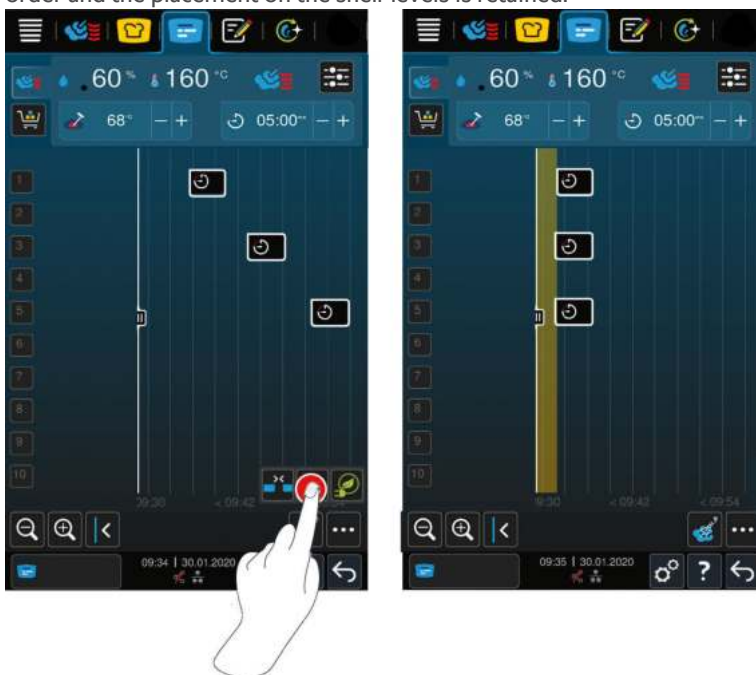
> You will be asked if you really want to close the planning gaps. **NOTICE! The action cannot be reversed.**

2. Confirm the question with: **OK**

>> The time gaps between the tickets are closed. The positioning of the tickets with regard to one another are maintained. The positioning of the tickets can be moved on the time axis.

10.4.4 Time optimisation

You can have tickets that you have already placed in iProductionManager automatically optimised by your iCombi Pro, in such a way that the dishes are cooked in an optimal sequence and time gaps are closed. The chronological order and the placement on the shelf levels is retained.



✓ You have created and placed tickets.

1. Press the button 

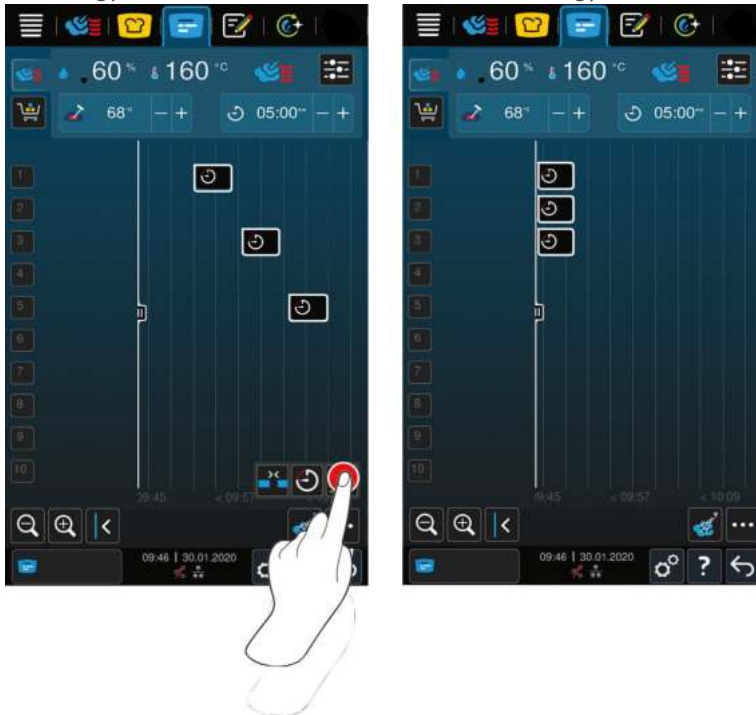
> You will be asked whether time gaps should really be closed. **NOTICE! The action cannot be reversed.**

2. Confirm the question with: **OK**

>> Depending on the combination check [▶ 58], the tickets are newly placed.

10.4.5 Energy optimisation

You can have tickets that you have already placed in iProductionManager automatically optimised by your iCombi Pro, so that the dishes are optimally cooked in terms of energy. The device utilisation can therefore be optimised and energy can be saved. Please note that the chronology of tickets can change.



✓ You have created and placed tickets.

1. Press the button 

> You will be asked if the tickets should really be arranged in an energy optimised manner. **NOTICE! The action cannot be reversed.**

2. Confirm the question with: **OK**

>> Depending on the combination check [▶ 58], the tickets are newly placed.

10.5 Edit and delete tickets



Manual tickets

If you have placed a manual ticket, subsequently you can extend the core temperature or the cooking time. You cannot edit the set climate.

1. Press the ticket.
 - > The ticket settings are displayed.
2. If you want to increase or decrease the core temperature or extend or shorten the cooking time, press the buttons: **+** or **—**
3. To delete the ticket, press the button:

Intelligent tickets and programmes

With a large number of intelligent tickets or programs, you can change the settings, after you have placed them. For some, you can only delete the ticket.

1. If you want to increase or decrease the core temperature or extend or shorten the cooking time, press the buttons: **+** or **—**
2. To delete the ticket, press the button:

10.6 Target time cooking

You can plan meals in the iProductionManager, so that cooking of meals starts at the same time or meals are cooked at the same time. You can carry out this planning not only at the current time, but also in the future. To do this, place tickets in front of the positioning aid or behind it. When you start the iProductionManager, the positioning aid indicates the actual time. If you move the positioning aid to the right, you change the time axis in the future.

1. Press the button in the menu bar:
2. Activate the positioning aid by pressing and then drag it to the desired point in time on the timeline. If you move the positioning aid to the right edge of the display, the time axis will be deferred to the future.
3. Position the desired tickets to the right or left of the positioning aid.
 - > If you place a ticket to the left of the positioning aid, the end of the ticket is placed at this time. Your dishes will be cooked at the same time.
 - > If you place a ticket to the right of the positioning aid, the start of the ticket is placed at this time. Cooking of the food starts at the same time when you double tap on the slide icon on the positioning aid .

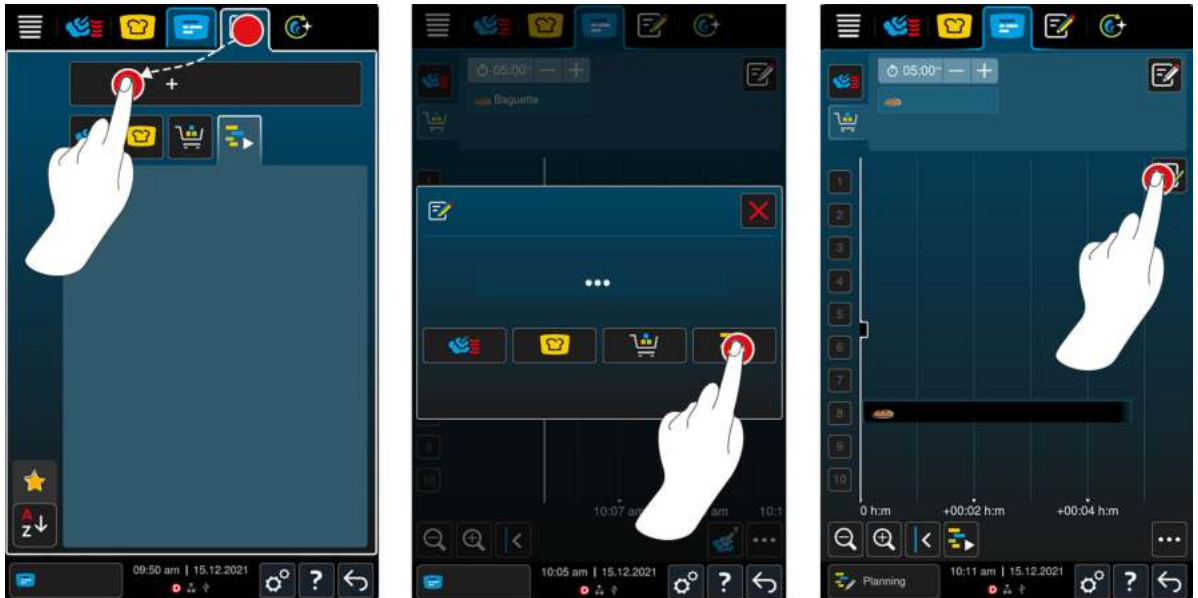
10.7 Planning




With the planning function of the iProductionManager you only have to place tickets once, so that you can retrieve them at any time.



- It is not possible to save tickets that have already been processed as planning.
- The additional **inject steam** function is not available when planning.



10.7.1 Create planning

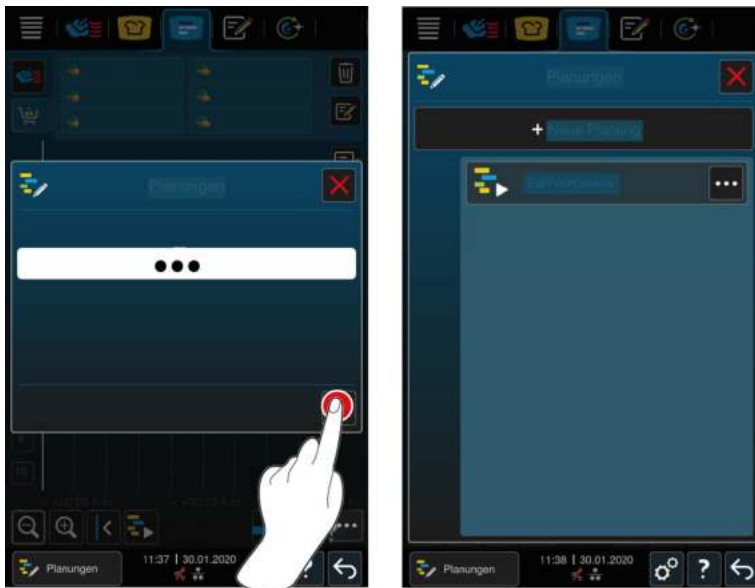


1. Press the button in the menu bar: 
2. Press the button in the menu bar: 
3. Press the button **+New planning**
4. Press the button 
 - > The positioning aid slides on the left edge of the display. The scaling of the time axis changes from the current time in the description to minutes. You can now place tickets, regardless of the time.
5. Position the desired tickets. You can place up to 30 tickets.

The following functions are available for planning optimisation:


- Close planning gaps [▶ 58]
- Time optimisation [▶ 59]
- Energy optimisation [▶ 60]

1. To start planning without saving, press the button: 
2. To save the planning, press the button: 



3. Assign a name.
 4. To confirm the action, press the button: ✓
- >> The planning is displayed in the planning list.

10.7.2 Start planning

- ✓ You have created a planning. [▶ 62]
 - ✓ The iProductionManager is not currently processing any tickets. When tickets are processed, a message appears, informing you that all tickets must be cancelled before planning starts.
1. Press the button  in the menu under *Programming*.
 2. Press the desired planning.
- >> The planning starts immediately. The tickets are placed on the racks according to the planning. The tickets on the ticket board are replaced by the tickets included in the planning.

11 Programming mode



In the programming mode, you can create, save and manage your own manual programs [▶ 64], intelligent cooking paths [▶ 66] and shopping baskets [▶ 68]. All the manual cooking modes [▶ 45], intelligent cooking paths [▶ 26] and preset shopping baskets are available for this.

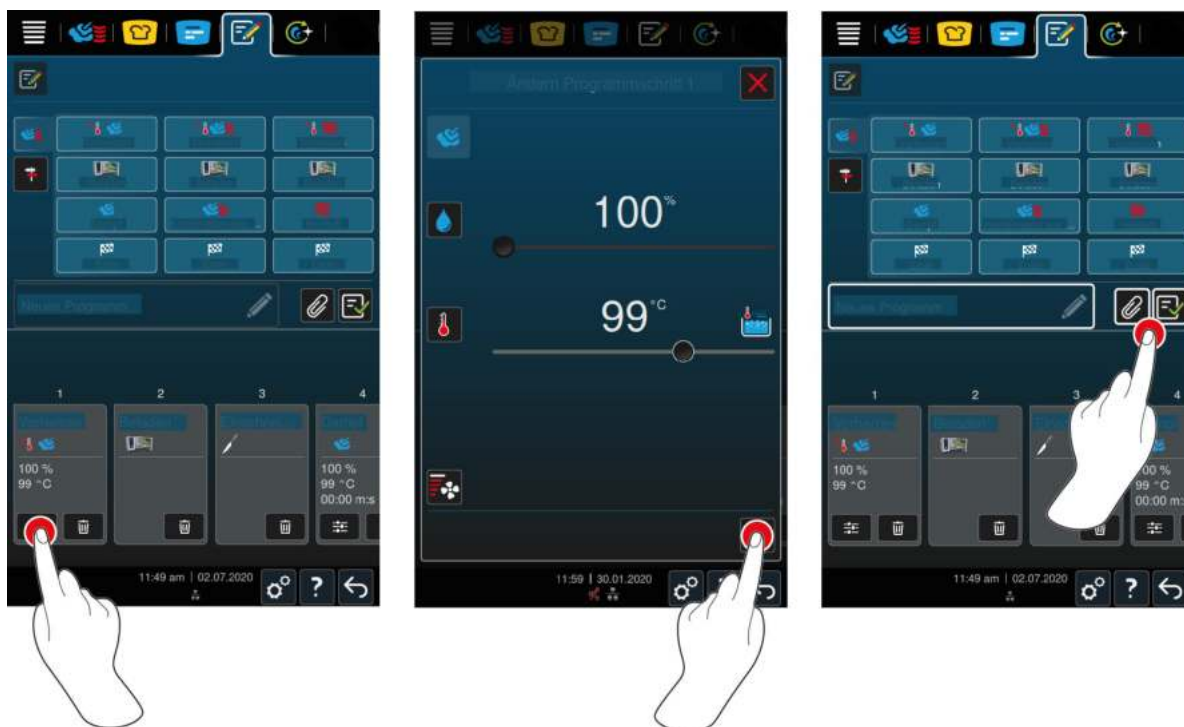



11.1 Create manual programme




1. Press the button in the menu bar:
2. Press the button + **New element**
3. Press the button
 - > An overview of the available cooking steps is displayed.
4. Select the required cooking steps and drag these into the lower section. **NOTICE! You cannot combine cooking steps freely.**
5. To add prompts to the program, press the button:
 - > An overview of the available prompts is displayed. These configurable action cards help you to plan intermediate steps during the cooking process. You can either use the preset action cards or create your own.

6. Choose the required prompts and drag them into the lower area.
7. You also have the option of creating your own action cards. To do this, press the **+** button. Now you can name your action card, add a text and image, and add a sound.





8. To edit a cooking step, press the button: 
 - > Depending on the selected mode, the adjustable cooking parameters and additional functions will be displayed.


Cooking step	Cooking parameters	Additional functions
Preheat	<ul style="list-style-type: none"> ▪ Cabinet temperature 	<ul style="list-style-type: none"> ▪ Air speed
Steam	<ul style="list-style-type: none"> ▪ Cabinet temperature ▪ Cooking time ▪ Core temperature 	<ul style="list-style-type: none"> ▪ Delta-T cooking ▪ Air speed
Combination of steam and hot air	<ul style="list-style-type: none"> ▪ Cooking cabinet humidity ▪ Cabinet temperature ▪ Cooking time ▪ Core temperature 	<ul style="list-style-type: none"> ▪ Delta-T cooking ▪ Air speed ▪ Humidification
Convection	<ul style="list-style-type: none"> ▪ Cooking cabinet humidity ▪ Cabinet temperature ▪ Cooking time ▪ Core temperature 	<ul style="list-style-type: none"> ▪ Delta-T cooking ▪ Air speed ▪ Humidification

1. Adjust the cooking step as required.
2. To save your changes, press the button: 


Pre-program start time and program image

✓ You have imported images. [▶ 82]

1. To assign a pre-programmed start time to the profile, press the button: 
2. Press the button  **Pre-program start time**
3. Press the button **ON**

4. Enter the start time.
5. To confirm the action, press the button: ✓
6. To assign an image to the profile, press the button: 📎
7. Press the button  **Select program image**
8. Select an image.
9. To confirm the action, press the button: ✓
10. To set a low fan level after loading, press the button: 🌀.



Save program

1. To give the program a name, press the button: ✎
 2. Assign the name.
 3. To save the program, press the button: 
- >> The program will be checked. If all cooking parameters have been set fully and placed in a logical order, the program will be saved and displayed in the program list.
- >> If the program contains an error, the corresponding point will be marked. Resolve the error before saving the program.

11.2 Create an intelligent program

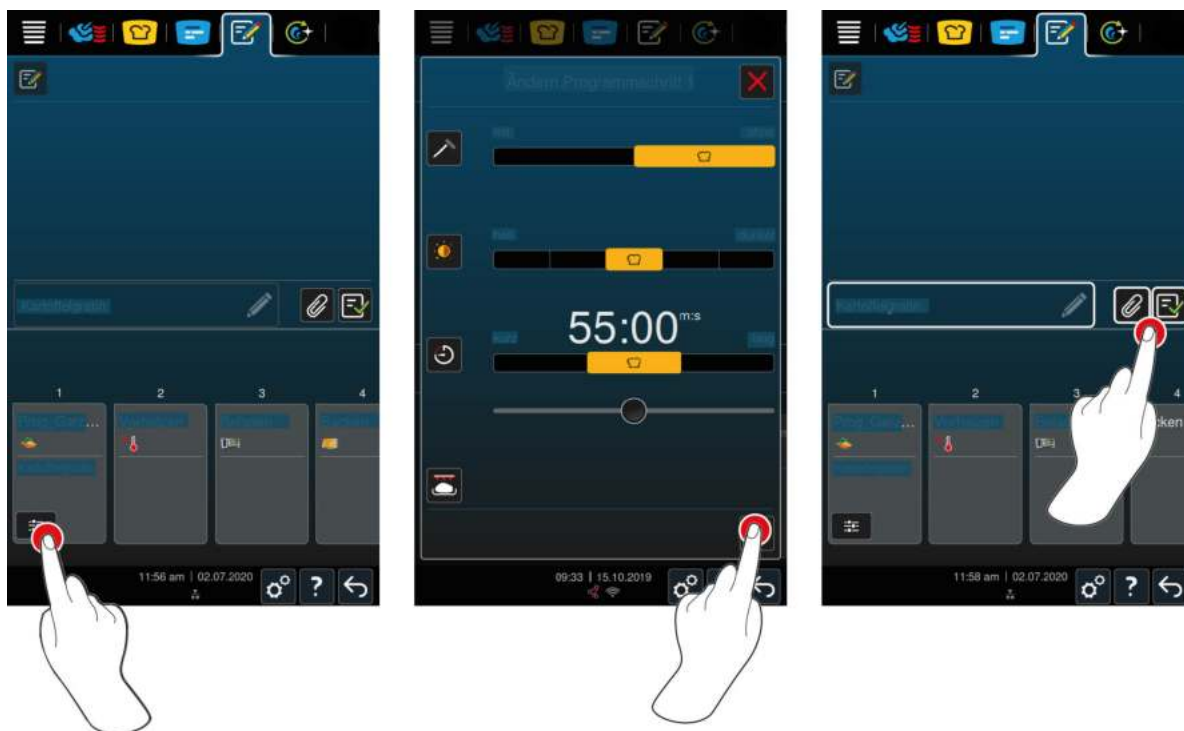
If you program an intelligent cooking process, you can only adjust the cooking parameters to your requirements. You cannot change the order of the individual cooking steps.






1. Press the button in the menu bar: 
2. Press the button **+ New element**
3. Press the button 
 - > You will be asked what you want to program.
4. Select one of the following options:
 - Cooking mode
 - Mode and cooking method
 - Cooking methods








Once you have selected these, the corresponding intelligent cooking paths will be displayed.

1. Select the desired intelligent cooking process.
 - > The individual steps will be displayed. You can adjust the cooking parameters as required.





2. Press the button 
 - > Depending on the selected cooking process, the adjustable cooking parameters and additional functions will be displayed. The standard settings of the cooking path are marked with the following symbol: 
3. Adjust the cooking parameters as required.
4. To save your changes, press the button: 
 - > The individual cooking steps will be displayed again.

Pre-program start time and program image







- ✓ You have imported images. [▶ 82]
1. To assign a pre-programmed start time to the profile, press the button: 
 2. Press the button  **Pre-program start time**
 3. Press the button **ON**
 4. Enter the start time.
 5. To confirm the action, press the button: 
 6. To assign an image to the profile, press the button: 
 7. Press the button  **Select program image**
 8. Select an image.
 9. To confirm the action, press the button: 
 10. To set a low fan level after loading, press the button: .

Save program

1. To give the program a name, press the button: 
 2. Assign a name.
 3. To save the program, press the button: 
- >> The program is displayed in the program list.



11.3 Programme the shopping cart





1. Press the button in the menu bar: 
2. Press the button + **New element**
3. Press the button 
4. To add intelligent cooking paths to the shopping basket, press the button: 
 - > All intelligent cooking paths are displayed.
5. Scroll through the list or select a cooking mode and then press the desired cooking path.
 - > The cooking path is highlighted with  and added to the shopping cart. You can also check the compatibility of cooking paths by holding down the buttons of the selected cooking paths for a longer time. A green tick indicates the compatibility of applications.
6. To add programs that are already saved to the shopping basket, press the button: 
 - > All programs are displayed.
7. Scroll through the list or select manual or intelligent programs and then press the desired program.
 - > The cooking path is highlighted with  and added to the shopping cart.



Check shopping basket

1. To check the shopping basket, press the button: 
 - > All chosen intelligent cooking paths and programs are displayed.
2. To delete an item from the shopping basket, press the button: 

Save shopping basket

1. To give the shopping basket a name, press the button: 
 2. Assign a name.
 3. To save the shopping basket, press the button: 
- >> The shopping basket is displayed in the program list.

Check compatibility

You can check the compatibility of applications in the cooking system programming mode.







1. Press and hold the selected application:
2. Applications marked with a green checkmark are compatible with the chosen application.
3. Applications marked with a red X are not compatible with the chosen application.

11.4 Edit and delete programmes

✓ You have programmed manual programs [▶ 64], intelligent cooking paths [▶ 66] or shopping baskets [▶ 68].


1. To edit a program, press the button: **...**

You can choose from the following editing options:


- Edit item 
- Duplicate item 
- Delete item 
- Setting the pre-programmed start time 
- Send program to iProduction Manager 
- Add program to favourites 

11.5 Start programs and shopping baskets

Manual programs

1. To start a manual program, press the desired program.
 - > The program starts immediately. All cooking steps are displayed.
 2. To send a manual programme to the iProductionManager, press the button: **...**
 3. Press the button 
- >> The manual program is displayed on the ticket board. You can now place the ticket as usual [▶ 57].

Intelligent cooking paths

1. To start an intelligent cooking path, press the desired program.
 - > The program starts immediately. All cooking steps are displayed.
 2. To send an intelligent cooking path to the iProductionManager, press the button: **...**
 3. Press the button 
- >> The intelligent program is displayed on the ticket board. You can now place the ticket as usual [▶ 57].

Shopping baskets

1. To transfer a shopping cart to the iProductionManager, press the desired shopping cart.



- > All items of the shopping basket are displayed on the ticket board. You can now place the tickets as usual [▶ 57].

12 Switch between operating modes



With the iCombi Pro you can easily switch between the cooking modes manual cooking, iCookingSuite and iProductionManager at any time. This means that you have the optimal mix of automatic, labour-saving cooking intelligence and individually desired control options. You can perform the following main applications:

- Convert a ticket in the iProductionManager to a manual operating mode.
- Convert an intelligent cooking path of the iCookingSuite into an intelligent ticket in the iProductionManager.
- Convert an intelligent cooking path of the iCookingSuite into a manual operating mode.



Convert a ticket into a manual operating mode

- ✓ You have placed a ticket. [▶ 57] The cooking path is running.
- 1. Press the button in the menu bar: 
 - > A query field appears in which you can confirm the change to manual mode.
- 2. **NOTICE! The action cannot be reversed.** Press the button 
- >> The cooking parameters of the ticket are accepted and displayed in the manual operating mode.

Convert an intelligent cooking path into an intelligent ticket

- ✓ You have started an intelligent cooking path. [▶ 37]. The cooking path is running.
- 1. Press the button in the menu bar: 
 - > A query field appears in which you can confirm the change to iProduction Manager.
- 2. **NOTICE! The action cannot be reversed.** Press the button 
- >> The intelligent cooking path is sent to the iProductionManager and displayed on the middle rack level.

Convert an intelligent cooking path into a manual operating mode

- ✓ You have started an intelligent cooking path. [▶ 37]. The cooking path is running.
- 1. Press the button in the menu bar: 
 - > A query field appears in which you can confirm the change to manual mode.
- 2. **NOTICE! The action cannot be reversed.** Press the button 
- >> The cooking parameters of the intelligent cooking path set at that time are adopted and displayed in manual mode and started right away.

13 Settings



You can permanently change the factory settings on your unit to suit your requirements.

1. Press the button

> The overview of all possible settings is shown:

- Favourites [▶ 72]
- Display [▶ 72]
- Light [▶ 73]
- Sound [▶ 74]
- Cooking system [▶ 76]
- Cooking [▶ 78]
- Cleaning [▶ 80]
- Data management [▶ 80]
- Network settings [▶ 84]
- User profile [▶ 85]
- Service [▶ 89]
- ConnectedCooking [▶ 89]

Change settings by scrolling through the list and pressing on the desired category. A selection of setting options is assigned to each category, which can be changed using simple gestures [▶ 18] or the central dial [▶ 18].

13.1 Favourites

All settings that you have marked as favourites are displayed in favourites.

1. Choose a setting.

2. Press the button

>> The setting is saved as a favourite and is displayed under , sorting is chronological according to the time it was added.

13.2 Display

1. Press the button

2. Press the button **Display**

13.2.1 Language

Here you can change the language of the user interface.

1. Press the button **Language**

2. Choose the desired language.

>> The language of the user interface is changed immediately. A total of 57 languages are available.

13.2.2 Date and time

Here you can change the following settings:

- **Date**
- **Time**
- **Toggle 24h/12h**


Date

1. Press the button **Date**

> A calendar is displayed.

2. Select the desired date.
- >> The date is automatically adopted.

Time



1. Press the button  **Time**
 - > The time is displayed.
 2. Press the time.
 3. Set the desired time.
- >> The time is automatically adopted.

Toggle 24h/12h

1. Select **12** to set the 12-hour format and **24** to set the 24-hour format.

ConnectedCooking

You can also synchronise the time automatically via ConnectedCooking.

1. Press the button .
2. Press the button  **ConnectedCooking**
3. Next to **Automatic time synchronisation**, press the button: **ON**





13.2.3 Temperature format

Here you can set whether the temperature should be displayed in °C or °F.



13.2.4 Programme view

Here you can set if intelligent cooking paths should be displayed in the iCookingSuite and in programming mode in one, two or three columns.




1. Press the button  **Program view**
 2. Select  **one column**,  **two columns** or  **three columns**.
- >> The selection is immediately adopted.

13.3 Light


1. Press the button .
2. Press the button  **Light**

13.3.1 Display brightness


Here you can adjust the display brightness on a scale from 0 - 100%.

1. Press the button  **Display brightness**
 2. Select the desired value on the scale or set it using the dial.
- >> The display brightness is immediately adopted.


Automatic dimming

1. Press the button  **Automatic dimming**
- >> You can now switch the automatic dimming on or off.


Dim after x min

1. Press the button  **Dim after x min**
- >> You can now set after how many minutes the automatic dimming should be activated.


Maximum cooking cabinet brightness

1. Press the button  **Maximum cooking cabinet brightness**
- >> Here you can adjust the cooking cabinet brightness on a scale from 0 - 100%.



Screen protector

1. Press the button  **Screen saver**
- >> You can now switch the screen saver on or off.

Activate screensaver after x min


1. Press the button  **Activate screensaver after x min**
- >> You can now set after how many minutes the screen saver should be activated.

13.4 Sound

1. Press the button 
2. Press the button  **Sound**





13.4.1 Master volume




Here you can set the master volume of the unit on a scale of 0 - 100%.

1. Press the button  **Master volume**
 2. Select the desired value on the scale.
- >> The master volume is immediately adjusted.

13.4.2 Loading/calls for action








Here you can set which sound or melody you would like to sound when you want to either load the unit or ask it to perform an action. You can choose from 25 options.

1. Press the button  **Loading/action request**
2. Press the button  **Sound**
3. Press on the desired sound.
 - > The sound will play.
4. If you want to switch off the sound, press the button: **OFF**
5. Click on  in the icon bar to return to the overview.
6. If you would like the tone to continue until the unit is loaded or the action has been confirmed, press the button:  **Continuous playback ON**

7. If you would like the tone to only continue for a certain time, press the button:  **Continuous playback OFF**
 - > The  **tone length** section will be active.
8. Set the duration on a 0 - 180 second scale.
9. To apply the setting, press the following button in the icon bar: 
- >> You will return to the overview.








13.4.3 Program step end

Here you can set which sound or melody you would like to sound when a program step is completed . You can choose from 37 options.

1. Press the button  **Program step end**
2. Press the button  **Sound**
3. Press on the desired sound.
 - > The sound will play.
4. If you want to switch off the sound, press the button: **OFF**
5. Click on  in the icon bar to return to the overview.
6. If you would like the tone to continue until the unit is loaded or the action has been confirmed, press the button:  **Continuous playback ON**
7. If you would like the tone to only continue for a certain time, press the button:  **Continuous playback OFF**
 - > The  **tone length** section will be active.
8. Set the duration on a 0 - 180 second scale.
9. To apply the setting, press the following button in the icon bar: 
- >> You will return to the overview.

13.4.4 End of cooking time






Here you can set which sound or melody you would like to sound when the cooking time has passed. You can choose from 37 options.

1. Press the button  **End of cooking time**
2. Press the button  **Sound**
3. Press on the desired sound.
 - > The sound will play.
4. If you want to switch off the sound, press the button: **OFF**
5. Click on  in the icon bar to return to the overview.
6. If you would like the tone to continue until the unit is loaded or the action has been confirmed, press the button:  **Continuous playback ON**
7. If you would like the tone to only continue for a certain time, press the button:  **Continuous playback OFF**
 - > The  **tone length** section will be active.
8. Set the duration on a 0 - 180 second scale.
9. To apply the setting, press the following button in the icon bar: 
- >> You will return to the overview.



13.4.5 Process interruption/error found

Here you can set which sound or melody you would like to sound when an error is detected. You can choose from 37 options.

1. Press the button  **Process interruption/error found**

2. Press on the desired sound.
 - > The sound will play.
3. If you want to switch off the sound, press the button: **OFF**
4. Click on  in the icon bar to return to the overview.
5. If you would like the tone to continue until the unit is loaded or the action has been confirmed, press the button:  **Continuous playback ON**
6. If you would like the tone to only continue for a certain time, press the button:  **Continuous playback OFF**
 - > The  **tone length** section will be active.
7. Set the duration on a 0 - 180 second scale.
8. To apply the setting, press the following button in the icon bar: 
- >> You will return to the overview.

13.5 Cooking system

1. Press the button 
2. Press the button  **Cooking system**

13.5.1 Information on unit model

Here you can see which model your unit belongs to and which software version is installed.

13.5.2 Power usage

Under this menu item you can call up the Energy Dashboard. Here you can monitor the energy usage of your cooking system. The energy usage is calculated in detail from the chosen settings and can also be displayed and evaluated in ConnectedCooking.

Press the button  to check the energy consumption of your cooking system.

With the help of the energy consumption display, we offer the option of viewing the energy consumption of the last cooking process performed. The following consumption data is provided after completion of a manual cooking process, an intelligent cooking process, use of iProductionManager or cleaning:

- Duration of cooking process
- Type of cooking process
- Energy consumption in kWh

NOTICE



The energy consumption is only available after the cooking process has been completed and is overwritten when a new cooking process is started. The energy values shown are not measured but calculated. It is possible to determine a slight deviation from the displayed values with measuring instruments.

13.5.3 iProductionManager energy saving mode

Press the button  to switch the IPM energy saving mode on or off.

13.5.4 Screen lock


Here you can switch the screen lock on and off.

- To activate the function, press the button:  **ON**
- To deactivate the function, press the button:  **OFF**

13.5.5 Demo mode

Here you can switch your unit to demo mode. This function is useful if you want to display the functionalities of your cooking system without cooking in it.

1. To activate the function, press and hold the button:  **ON** until the progress bar has moved past both switch positions ON and OFF.

>> If demo mode is activated, the cooking system will restart. The symbol appears in the footer: 

13.5.6 Power Steam

Here you can set that a constant, uninterrupted fresh steam supply is guaranteed in the Steam [▶ 47] operating mode for particularly demanding products.

CAUTION

If you work with the power steam function, this will produce more hot vapours

You could scald yourself on the hot steam when opening the cooking cabinet door.

1. Carefully open the cooking cabinet door when working with the Power Steam function.

1. To activate the function, press the button:  **ON**


>> In the **Steam** operating mode, the boiling temperature is replaced by the symbol: 

13.5.7 Control nozzle

Here you can set to what extent the control solenoid of the unit should condense excess steam. This function is standard in Eco mode. This setting optimises the discharge of steam. In addition to the Eco mode setting, you can activate or deactivate the control solenoid function:





- The control solenoid can be activated permanently if undesired condensation is to be avoided in the kitchen.
- The control solenoid can be deactivated if the performance of your ventilation system is sufficient, which allows you to save water.

Before you activate or deactivate the function, contact your RATIONAL Service Partner.

1. Press the button  **Control solenoid**
2. To activate the function, press the button: **ON**
3. To deactivate the function, press the button: **OFF**




13.5.8 Watchdog

Here you can set the warning to sound if the cooking cabinet door has been open for too long during loading. Set the time on a 0 -180 second scale.






- Press the button  to access the watchdog settings.
- Press the button  to set the number of seconds of watchdog function 1.
- Press the button  to set the number of seconds of watchdog function 2.
- Press the button  to set the number of seconds of the watchdog function in programming mode.

13.5.9 Danger


Here you can set the warning to sound if the cooking cabinet door has been open for too long during cooking. Set the time on a 0 -180 second scale.

- Press the button  to access the danger settings.
- Press the button  to set the number of seconds for the danger in preheating or the iProductionManager preheating function.
- Press the button  to set the number of seconds for the danger levels and danger levels in the iProductionManager function.

13.5.10 Remote control


- Press the button  to access the remote control settings.
- Press the button  to assign a unit name.
- Press the button  to change the colour of the display frame.
- Press the button  to activate or deactivate the remote control function.
- Next to the  icon, the IP address of the device to be controlled remotely is displayed.

13.5.11 Empty steam generator



1. Press the button  to empty the steam generator.

13.5.12 VarioSmoker

You can activate or deactivate the smoking function regardless of whether you have already attached the VarioSmoker.


1. Press the button  **VarioSmoker ON** or **OFF** to have the option button for activating the VarioSmoker available in manual programming.

13.6 Cooking

1. Press the button .
2. Press the button  **Cooking**

13.6.1 Primary country cuisine


In the primary country cuisine, cultural eating habits are translated into intelligent cooking paths. The cooking parameters of the intelligent cooking paths reflect the eating habits and the way food is prepared in the respective country or region. This means that not only can you master your local cuisine, but all the cuisines of the world. This setting is independent of the language selection.


1. Press the button  **Primary country cuisine**
2. Scroll through the list and select the desired primary country cuisine.

>> The country cuisine is immediately adopted. In the iCookingSuite, the intelligent cooking paths that correspond to the national cuisine are displayed. The cooking parameters, cooking times and core temperatures of the intelligent cooking paths are adapted to the cultural eating habits.

13.6.2 Secondary country cuisine

You can add an additional country cuisine to the primary country cuisine. This allows you to prepare typical dishes from 2 countries at the same time. This is an advantage, for example, if your restaurant wants to offer a special weekly menu with another country cuisine.

1. Press the button  **Secondary country cuisine**
2. Scroll through the list and select the desired secondary country cuisine.

>> The country cuisine is immediately adopted. In the iCookingSuite, the additional intelligent cooking paths of the secondary country cuisine are displayed and marked with . The settings of the cooking parameters are still influenced by the primary country cuisine [► 78].

13.6.3 À la carte plate weight


Before you start the finishing, set how heavy an empty plate is. With the help of this information, your iCombi Prowill adjust the cooking steps, so that you achieve an ideal finishing result and no moisture condenses on the plates. Click here for more information: Adjust plate weight à la carte [► 53]

13.6.4 Banquet plate weight

Before you start the finishing, set how heavy an empty plate is. With the help of this information, your iCombi Prowill adjust the cooking steps, so that you achieve an ideal finishing result and no moisture condenses on the plates. Click here for more information: [Adjust banquet plate weight ▶ 53](#)

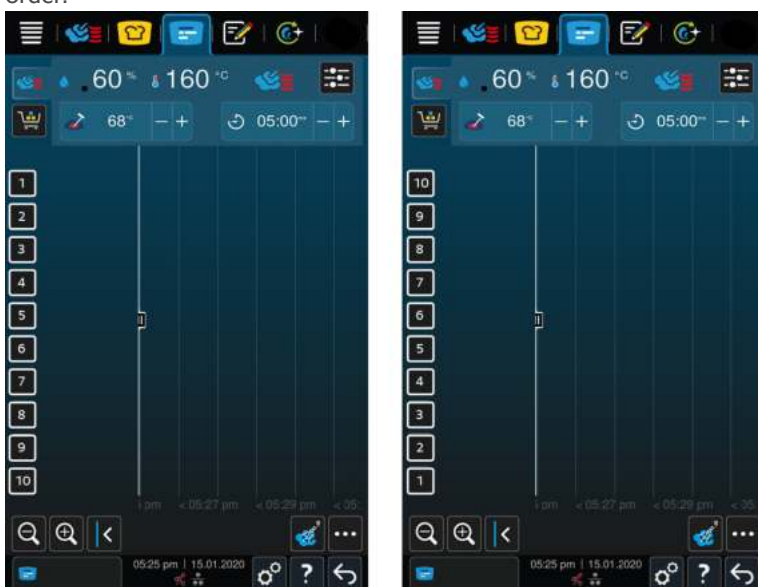
13.6.5 Number of racks



Here you can set how many racks you want to use in the iProductionManager.

1. Press the button  **Number of racks**
 2. Select the desired value from 0-10 on the scale.
- >> The setting is immediately adopted.

13.6.6 Order of racks

Here you can set if the order of racks in the iProductionManager should be displayed in ascending or descending order.



1. To display the racks in ascending order, press the button:  **123**
 2. To display the racks in descending order, press the button:  **321**
- >> The setting is immediately adopted.


13.6.7 Extra time in manual programs in the iProductionManager

Here you can set whether the cooking time should be extended in manual programs in the iProductionManager of the cooking cabinet door is opened during the cooking time and the measured energy loss is so high that the cooking result cannot be achieved with the selected setting.

1. To activate the function, press the button: **Extra time in manual programs in the iProductionManager ON**

13.6.8 Climate retention time

Here you can set how long the climate in the cooking space should be maintained, if you do not prepare dishes with the iProductionManager.

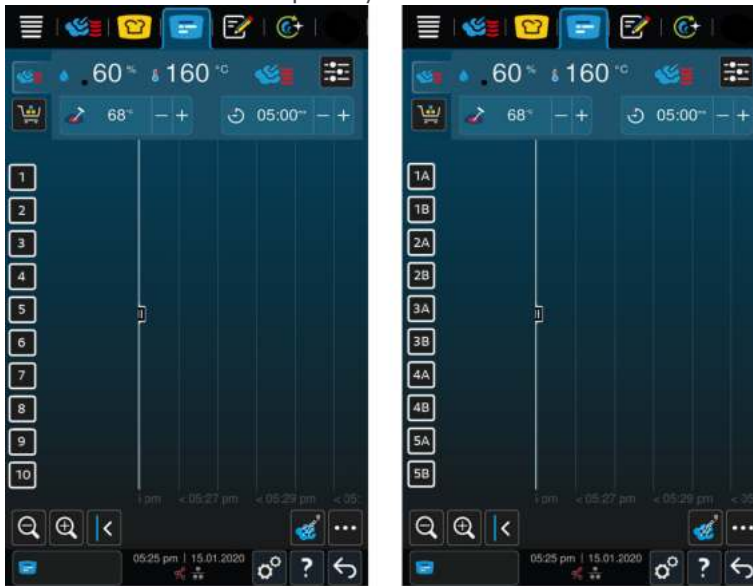
1. Press the button  **Climate retention time**
 2. Select the desired value on the scale.
- >> The retention time is immediately adjusted.

NOTICE

Save energy with a shorter retention time.

13.6.9 iProductionManager 3D

Here you can set that you want to load onto the racks with two metal sheets in the iProductionManager. Each metal sheet is monitored separately. Please note that no more than 12 racks can be displayed.



1. To activate the function, press the button: **ON**
>> The setting is immediately adopted.

13.7 Cleaning

1. Press the button
2. Press the button **Cleaning**

13.7.1 Forced cleaning

Here you can set how long you would like to pass before you receive a reminder to clean the unit. You cannot work with the unit again until the cleaning has been performed. This means that you can ensure that cleaning and hygiene regulations are observed when the unit is in shift operation. Click here for more information: [Forced cleaning after operating hours \[► 98\]](#)

13.7.2 Cleaning plan

Here you can set on which days of the week you want the unit to perform a forced cleaning process. This means that you can ensure that cleaning and hygiene regulations are observed when the unit is in shift operation.

Switch off after cleaning

In order to optimise energy usage, a general switch-off of the cooking system after cleaning can be activated in the menu.

See also

- [Cleaning plan \[► 98\]](#)

13.8 Data management

Please note that the **data management** functions are only available if you connect a USB flash drive to the unit.

1. Press the button
2. Press the button **Data management**

You can adjust the following settings:

- [Export all data \[► 81\]](#)
- [Cooking programs \[► 81\]](#)

- User profile [▶ 81]
- User images [▶ 82]
- User data: Delete all [▶ 82]
- Basic unit settings [▶ 82]
- HACCP data [▶ 83]
- Service [▶ 83]
- Export MyDisplay [▶ 83]

13.8.1 Export all data

✓ You have connected a USB flash drive to the unit.

1. Press the button  **Export all data**

>> You can now export all data to a USB flash drive.

13.8.2 Cooking programs

Here you can export, import or delete all the programs you have created.

Export programs

✓ You have created programs in the programming mode.

✓ You have connected a USB flash drive to the unit.

1. Press the button  **Export programs**

>> The saved programs are saved on the USB flash drive.

Import programs

1. Connect a USB flash drive containing the exported programs to the unit.

2. Press the button  **Import programs**

>> The saved programs are imported and displayed in programming mode.

Programs: Delete all own

Here you can delete all programs you have created.

1. Press the button 

> You will be asked if you really want to delete the programs.

2. To confirm the action, press the button: 

>> A message will confirm that all programs have been deleted.

13.8.3 User profile

Export profiles

✓ You have created a profiles.

✓ You have connected a USB flash drive to the unit.

1. Press the button  **Export profiles**

>> The saved programs are saved on the USB flash drive.

Import profiles

1. Connect a USB flash drive containing the exported programs to the unit.

2. Press the button  **Import profiles**

>> The saved profiles are imported and are displayed in the user management area.

Delete all own profiles

Here you can delete all profiles you have created. The preset profiles will not be deleted.


1. Press the button **Delete all own profiles**
 - > You will be asked if you really want to delete the profiles.
 2. To confirm the action, press the button: ✓
- >> A message will confirm that all own profiles have been deleted.

13.8.4 User images


Here you can import and export all images you want to assign to programs and shopping carts. Images must meet the following criteria:

- File type: PNG
- Colour depth: 3 x 8 bit
- Image size: 130 x 130 px
- File size: max. 50 kb

Import images

1. Save images on a USB flash drive in a folder named **userpix**.
 2. Connect the USB flash drive to the unit.
 3. Press the button  **Import images**
- >> The saved images will be imported.

Export images


- ✓ You have imported images.
 - ✓ You have connected a USB flash drive to the unit.
1. Press the button  **Export images**
- >> The saved images will be saved onto the USB flash drive.

Delete all own images


Here you can delete all images you have imported.

1. Press the button **Delete all own images**
 - > You will be asked if you really want to delete the images.
 2. To confirm the action, press the button: ✓
- >> A message will confirm that all own images have been deleted.


13.8.5 User data: Delete all

1. Press the button  **User data: Delete all**
 - > You will be asked if you really want to delete the data.
2. Press the button ✓
 - > A message confirms that all your user data – cooking programs, user profiles, images, and user settings – have been deleted

13.8.6 Basic unit settings**Basic unit settings: Export all**

- ✓ You have connected a USB flash drive to the unit.
1. Press the button  **Basic unit settings: Export all**
- >> The basic unit settings are saved on the USB flash drive.


Import basic unit settings

1. Connect a USB flash drive to which the basic device settings have already been exported to the device.
 2. Press the button  **Basic unit settings: Import all**
- >> The basic unit settings are imported.

13.8.7 HACCP data


Here you can export all HACCP data recorded by the unit to a USB flash drive. You can also have the HACCP data automatically transferred to ConnectedCooking.

- ✓ You have connected a USB flash drive to the unit.

1. Press the button  **HACCP data: Export all**
- >> The HACCP data is saved on the USB flash drive.

HACCP data: Export via time period

- ✓ You have connected a USB flash drive to the unit.

1. Press the button  **HACCP data: Export via time period**
 2. Select the desired time period and press the "export" button.
- >> HACCP data for the selected period is saved on the USB flash drive.


13.8.8 Service**Developer logs: Export all**

- ✓ You have connected a USB flash drive to the unit.

1. Press the button  **Developer logs: Export all**
- >> The developer logs are now downloaded to a USB flash drive.


Developer logs: Export via time period

- ✓ You have connected a USB flash drive to the unit.

1. Press the button  **Developer logs: Export via time period**
- >> You can now download the developer logs for a certain period of time.


Service report: Export all

- ✓ You have connected a USB flash drive to the unit.

1. Press the button  **Service report: Export all**
- >> The service reports are now downloaded to a USB flash drive.

Export error statistics log

- ✓ You have connected a USB flash drive to the unit.








1. Press the button  **Copy the error statistics log to a USB flash drive**
- >> The error statistics log is saved on the USB flash drive.

13.8.9 Export MyDisplay



The "Export MyDisplay" option can be used to export chain scripts installed on the cooking system. This makes it possible to transfer profiles, programs and images to another cooking system. Before exporting, you can use the "Delete before updating" switch to set whether the existing programs, profiles and images should be deleted when importing the chain script.

13.9 Network settings

If you want to connect the unit to a WiFi network where you have to log in via a website, the WiFi connection cannot be established.

1. Press the button 
2. Press the button  **Network**
3. To activate the function, press the button:  **ON**
4. Press the button  **WIFI**
 - > A list of all available WiFi networks is displayed. WiFi networks are sorted by signal strength.
5. Select the desired WiFi network.
 - > You will be asked to enter the password of the WiFi network.
6. To confirm the action, press the button: 
 - > If the connection has been successfully established, the following symbol appears in the footer: 
 - > The WiFi network will be displayed at the top of the list of available WiFi networks.
7. To display the connection details, press this button next to the WiFi network: **V**
8. To disconnect, press this button in the connection details: **Disconnect**
9. Press on  in the icon bar to return to the overview of the network settings.
 - >> The name of the WiFi network will be displayed in the **WLAN** section.

Optimised network settings allow you to connect to wireless networks with hidden SSIDs:

- Press the button  **Manual connection with WiFi.**
- You can now enter the network name (**SSID**) and the associated password.
- Press the button  to connect.




1. Press the button 
2. Press the button  **Network settings**

You can find out how to connect your unit to a WiFi network here: [Establish a wireless connection \[► 91\]](#)


You can find out how to connect your unit to the network here: [Establish network connection \[► 93\]](#)

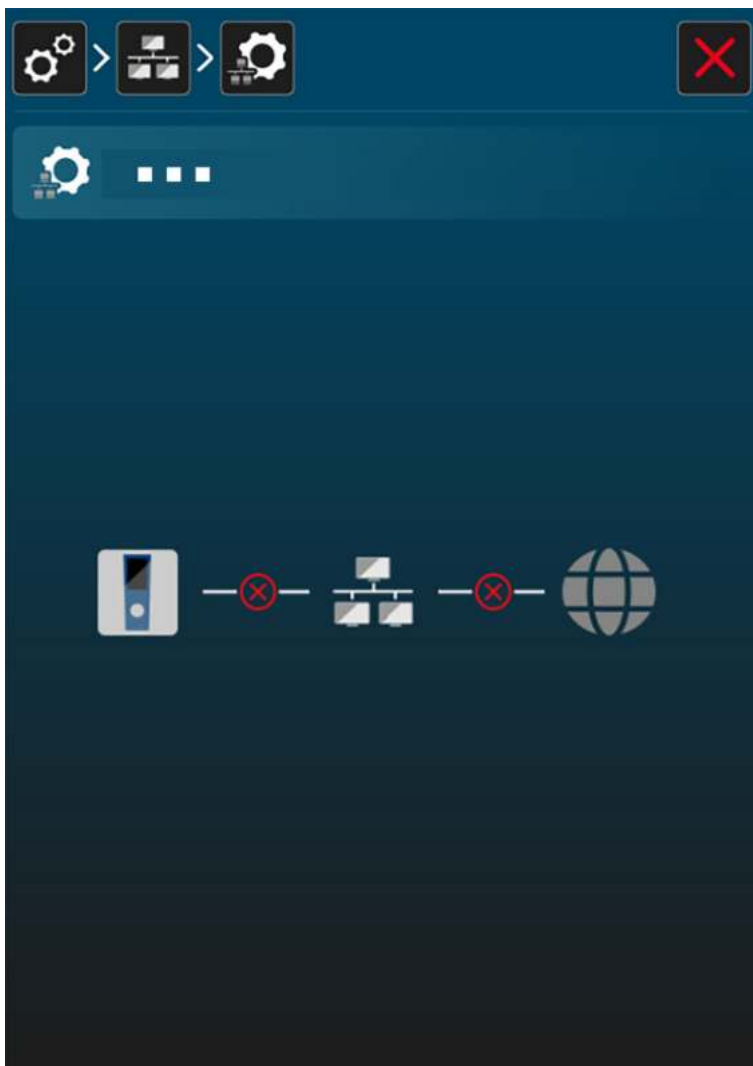
Start network assistant

The Network Assistant helps you to set up the network settings.

1. Press the button : **Start network assistant**
 - > Now you will be asked if you want assistance with the network settings. You can be assisted either with the WiFi connection or with the LAN connection.
2. Press the button  **DHCP active: OFF** to edit the following network settings:
 - **IP address**
 - **IP Gateway**
 - **IP Netmask**
 - **DNS 1**
 - **MAC address**
1. Press the button  **DHCP active: ON** to edit the following network settings:
 - **MAC address**

In case of connection problems, you can perform network diagnostics.



1. Press the button  *Perform network diagnostics* to see if your cooking system is connected to the network.



The **Network status** button can be used to check whether there is a connection to the router and to the Internet.

13.10 User profile



You can group users into profiles and assign access rights to these profiles. By default, your unit is assigned a profile that cannot be deleted. You can add up to 10 more profiles.

1. Press the button 
2. Press the button  **User profile**

How to create, change and transfer profiles to other cooking systems can be found here: Profile and rights management

13.10.1 Activate profile

✓ You have created a profile. See Create new profile

1. Press the button  **Activate profile**
2. Select the desired profile.
3. If you have assigned a password to the profile, enter the password.
4. To confirm the action, press the button: 

>> The profile is immediately activated.

>> When you open the start screen, the activated profile is displayed. If several profiles are displayed, you can scroll through the list. To create a new profile, press the button: +



13.10.2 Edit profile

✓ You have created a profile.

1. Press the button  **Edit profile**









> You can now select a profile to be edited.

Once you have selected a profile, you can apply the following settings:

Profile settings

1. Press the button  **Profile settings**.

>> You can now apply the following settings:







-  **Change profile name**
-  **Change profile password**
-  **Change language**
-  **Change profile type** NOTICE! The profile type can only be changed by the main user.
-  **Change primary country cuisine**
-  **Change secondary country cuisine**
-  **Delete profile**
-  **Hide all elements except favourites** can be switched on or off.

Customise the menu bar


This option allows you to customise the menu bar according to your preferences.

1. Press the button  **Customise the menu bar**



>> The following settings can be applied:

-  **The start screen** can be shown or hidden.
-  **Manual operating modes** can be shown or hidden.
-  **iCookingSuite** can be shown or hidden.
-  **iProductionManager** can be shown or hidden.
-  **Programming mode** can be shown or hidden.
-  **iCareSystem** can be shown or hidden.








Create and edit screen

1. Press the button **ON** or **OFF**, the option : **Create and edit screen** to enable or disable the option Create new screen [► 88].






















Customise the footer

1. Press the button  **Customise the footer**.
- >> You can now set whether  **the unit help** should be shown or hidden in the footer.

Change profile

1. Press the button **ON** or **OFF**, the  **Change** option to activate or deactivate the option to change a profile
 1. Press the button  **iCookingSuite**
- >> You can now apply the following settings:
-  **Select parameters**. Here you can choose between **operable** and **non-visible**.
 -  **Humidity** can be shown or hidden.
 -  **Cooking cabinet temperature** can be shown or hidden.
 -  **Core temperature** can be shown or hidden.
 -  **Cockpit header** can be shown or hidden.

iProductionManager

1. Press the button  **iProductionManager**
- >> You can now apply the following settings:
-  **À-la-carte mode** can be shown or hidden.
 -  **Manual ticket board** can be switched on or off.
 -  **Time ticket** can be shown or hidden.
 -  **Edit ticket board** can be shown or hidden.
 -  **Allow drag&drop** can be shown or hidden.
 -  **Ticket compatibility** can be shown or hidden.
 -  **Level assignment** can be shown or hidden.
 -  **Place at current time** can be shown or hidden.
 -  **Allow subsequent drag & drop** can be shown or hidden.
 -  **Allow pop-over access** can be shown or hidden.
 -  **Clone tickets** can be shown or hidden.
 -  **Jump to the current time** can be shown or hidden.
 -  **Positioning aid** can be shown or hidden.
 -  **Allow scrolling** can be shown or hidden.
 -  **Zoom** can be shown or hidden.
 -  **Inject steam** can be shown or hidden.
 -  **Preheat** can be shown or hidden.
 -  **Close planning gaps** can be shown or hidden.
 -  **Time optimisation** can be shown or hidden.
 -  **Energy optimisation** can be shown or hidden.

See also




-  Add profiles [► 88]

13.10.3 Add profiles

Here you can add a new profile.

1. Press the button  **Add profiles**

>> You can now add a new profile.

1. Press the button  **from an existing profile** to create the profile from an existing profile. You can now apply all settings for the newly added profile under the  Edit profile [▶ 86] menu item.
2. Press the button  **from a profile template** to create a new profile from a profile template.

13.10.4 Edit screen








✓ You have created a new screen.

1. Press the button  **Edit screen**


> The functions and intelligent assistants of the menu bar are displayed.


2. Press the desired button.

> All available functions will be displayed.


- In the  **manual cooking** section, you can select the cooking modes  **steam**,  **combination of steam and hot air** and  **hot air**.
- In the  **iCookingSuite** section, all intelligent cooking paths are available.
- In the  **programming mode** section, all manual and intelligent programs as well as shopping carts are available. If you have not yet created any programs or shopping carts, this field will be empty.
- In the  **iCareSystem** section, all cleaning modes [▶ 95] and cleaning programs [▶ 96] are available.

1. Press on every function you want to assign to the screen.

> The function is highlighted with .

2. To check the functional scope of the screen, press the button: .

3. To remove a function from the screen menu, press the button: .

4. To give the screen menu a name, press the button: .

5. Assign a name.

6. To save the screen menu, press the button: .

>> You will return to the overview.

1. To assign the screen menu to a profile, press the button:  **Edit profile**

2. Select the desired profile.

3. Press the button  **Customise the menu bar**

4. Press the button behind the screen menu: **ON**

5. Press on  in the icon bar to return to the overview of user profiles.

>> If you activate the profile [▶ 85], the new screen menu will be displayed in the menu bar.

13.10.5 Create new screen

✓ You have created a MyDisplay menu.

1. Press the button **Edit MyDisplay**



2. Select the desired MyDisplay menu.

3. Press on every function you want to add to the MyDisplay menu or which you want to remove.



4. To rename the MyDisplay menu, press the button: .

5. Assign a name.









6. To save your changes, press the button: .

7. To delete a MyDisplay menu, press the button: 
 - > You will be asked if you really want to delete the item.
8. To confirm the action, press the button: 

13.11 Service

1. Press the button 
2. Press the button  **Service**

The following information is available:

- Information on unit model/software version 
- Serial number information 
- Hotline - Chef [▶ 106] 
- Hotline - Service [▶ 106] 
- Service levels 
 - This function is only available to RATIONAL Service Partners.
- Software update info [▶ 89] 
- Installed software version [▶ 89]
- Service messages of the last 14 days 
- Open source licences 

13.11.1 Installed software version

Here you will find all information about the installed software version and installed help packages.

13.11.2 Software update info

Here you can see which software version is installed on your unit. If you have connected your unit to ConnectedCooking and activated the **Download software updates automatically** function, software updates will be made available to you automatically. Click here for more information: Carry out software updates automatically [▶ 94] If a software update is available, the current software version is displayed and the **Start installation** button is active.

1. Press the button **Start installation**
- >> The software update is carried out and the unit is restarted.

13.12 ConnectedCooking

NOTICE

If no "Activation code" is displayed, it is not yet possible to connect to the ConnectedCooking server.

This may be due to the following:

- DNS name resolution for www.connectedcooking.com must be available.
- Version with DHCP: DHCP active – IP address is assigned by the network.
- Version without DHCP: network operator must provide IP address, network mask, gateway and DNS server, which can then be entered manually on the cooking system.
- Firewall ports 443 and 8883 free (protocol: HTTPS and MQTT) for outgoing communication to destination host: www.connectedcooking.com (IP 185,113,124.8)
- Network with MAC filter: MAC addresses can be read on the combi-steamer or requested via customer service *These settings correspond to the default settings of a home router"

1. Press the button 

2. Press the button **ConnectedCooking**

You can find out how to connect your cooking system to ConnectedCooking and which functions are available here: ConnectedCooking [▶ 93]

If your cooking system is connected to ConnectedCooking, you have the following setting options.

1. Press the button

>> You can log in to ConnectedCooking with your existing account.

1. Press the button

>> You can log in anonymously to ConnectedCooking without an account.

Automatic time synchronisation

1. Press the button **ON** or **OFF**

>> Automatic time synchronisation does not take place when you press **OFF**. When you press **ON**, automatic time synchronisation takes place.

Automatically transfer HACCP data

1. Press the button **ON** or **OFF**

>> Your cooking system will not automatically transfer HACCP data to ConnectedCooking when you press **OFF**. As soon as you press the **ON** button, the cooking system automatically transfers the HACCP data to ConnectedCooking.

Remote access

1. Press the button **ON** or **OFF**

>> Remote access is not available when you press **OFF**. If you press **ON**, it will be possible to control your cooking system remotely via ConnectedCooking.

Software update

1. Press the button **ON** or **OFF**

>> Software updates are not performed automatically when you press **OFF**. If you press **ON**, software updates are performed automatically.

Connect automatically

If the network connection of your cooking system is lost, your cooking system will automatically reconnect to ConnectedCooking once the connection is re-established. If you do not want this, you can deactivate the function.

1. Press the button **ON** or **OFF**

>> Your cooking system will disconnect from ConnectedCooking when you press **OFF**. As soon as you press the **ON** button, your cooking system will automatically reconnect to ConnectedCooking

Log off

You can log out of ConnectedCooking at any time. The connection details will be deleted. If you want to re-connect the cooking system to ConnectedCooking, you will have to register the cooking system again.

1. Press the button

>> You will be asked whether you want to log out of ConnectedCooking. If you confirm this, your cooking system will be logged out of ConnectedCooking immediately.

14 Kitchen management

14.1 Hygiene management

14.1.1 Logged HACCP data

The following HACCP data is logged for each batch:

- Batch number
- Unit model
- Serial number
- Software and Help Version
- Date and time
- Cleaning programme
- Hand shower rinse
- Cabinet temperature
- Set core temperature
- Measured core temperature
- Time (hh:mm:ss)
- Temperature unit
- Energy optimising system connection
- Name and ID of the cooking path
- Opening / closing the cooking cabinet door
- Change of mode
- Automatic cleaning



14.1.2 Exporting HACCP data

At maximum use, HACCP data will be stored in the cooking system for 14 days. During this time, you can download the data. Click here for more information: [Export HACCP data](#). [▶ 83] A longer period is available if the corresponding period of use is shorter.

14.1.3 Transfer HACCP data automatically to ConnectedCooking

If you have connected your unit with ConnectedCooking, you can set it so that the HACCP data is automatically transferred to ConnectedCooking once a cooking process is complete.

✓ Your unit is connected with ConnectedCooking [▶ 93].

1. Press the button 
2. Press the button  **ConnectedCooking**
3. Next to **Automatically transfer HACCP data**, press the button:  **ON**

>> HACCP data will now be automatically transferred when a cooking process is completed. You can view the data at connectedcooking.com or in the ConnectedCooking app.








14.2 Connected units to a network

When you network your units, you have the following options:



- Operate both units of a Combi-Duo installation on just one unit.
- Connecting units with ConnectedCooking.

14.2.1 Establishing a WiFi connection

If you want to connect the unit to a WiFi network where you have to log in via a website, the WiFi connection cannot be established.

1. Press the button 
2. Press the button  **Network**
3. To activate the function, press the button: 
4. Press the button  **WIFI**
 - > A list of all available WiFi networks is displayed. WiFi networks are sorted by signal strength.
5. Select the desired WiFi network.
 - > You will be asked to enter the password of the WiFi network.
6. To confirm the action, press the button: 
 - > If the connection has been successfully established, the following symbol appears in the footer: 
 - > The WiFi network will be displayed at the top of the list of available WiFi networks.
7. To display the connection details, press this button next to the WiFi network: **V**
8. To disconnect, press this button in the connection details: **Disconnect**
9. Press on  in the icon bar to return to the overview of the network settings.
 - >> The name of the WiFi network will be displayed in the **WLAN** section.

Optimised network settings allow you to connect to wireless networks with hidden SSIDs:

- Press the button  **Manual connection with WiFi.**
- You can now enter the network name (**SSID**) and the associated password.
- Press the button  to connect.

14.2.2 Connect network cable

Your unit is equipped with a network connection as standard. To connect your unit to the network and to protect the unit from water jets from all sides, use a network cable with the following properties:

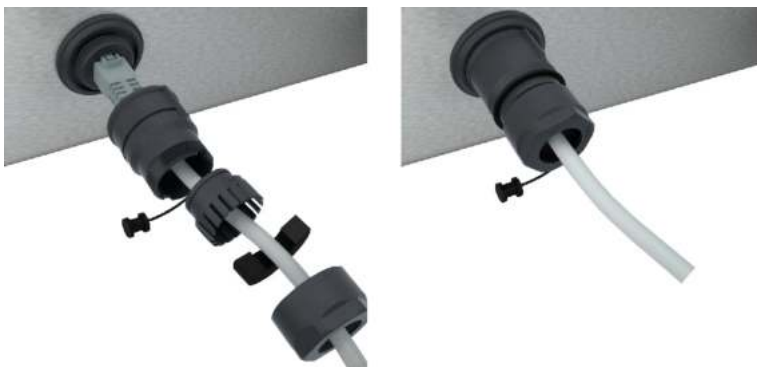
- Network cable category 6
- Maximum plug length of 45 mm
- Plug diameter of 18.5 mm
- Cable diameter of 5.5 – 7.5 mm

CAUTION

The functional parts around the network connection can heat up to over 60 °C




You can burn yourself if you connect a network cable to a unit that is currently in use or has just been in use.

1. Let the unit cool down before connecting the network cable.



1. Unscrew the protective cover.
2. Thread the individual parts of the protective cover onto the network cable.
3. Plug the network cable into the network connection.
4. Screw the protective cover back on.

14.2.3 Establish network connection

- ✓ You have all the data for the network connection.
- 1. Press the button 
- 2. Press the button  **Network settings**
- 3. Press the button  **LAN**
- 4. Press the button **IP IP network**
- 5. Enter the IP address.
- 6. Press the button **IP IP Gateway**
- 7. Enter the IP address of the IP Gateway.
- 8. Press the button **IP IP Netmask**
- 9. Enter the IP netmask.
- 10. If you would like a server to assign the network configuration to customers, activate DHCP. Press the button **IP ON**
 - > Now the IP address, Gateway and DNS are automatically configured.
- 11. Press the button **IP DNS 1 (preferred)**
- 12. Enter the address of the DNS server.

14.3 ConnectedCooking

ConnectedCooking is the most modern network solution by RATIONAL. Whether you use one or more RATIONAL units, ConnectedCooking offers you completely new and convenient application options. The only thing you need to do is connect your RATIONAL unit to a network and register at connectedcooking.com.

In ConnectedCooking you can see the online status, cleaning details, the operating statistics and if the HACCP requirements are being complied with at a glance. The following features are also available:

- **Push notifications**

Whether it's a loading, ready-to-eat or service message, you will receive all the information you need in real time, no matter where you are.

- **Transfer and manage cooking paths**

Automatically transfer tried and tested cooking paths to all units in your business.


- **Automatic software updates**

Software updates are always provided to you free and automatically.


You will also find extensive recipe libraries, tips and tricks from our professionals as well as a variety of training videos at connectedcooking.com.

14.3.1 Connect unit with ConnectedCooking


When you connect your unit to ConnectedCooking, the following features are available:

- Transfer HACCP data automatically to ConnectedCooking [▶ 91]
- Automatically transferring service data to ConnectedCooking [▶ 106]
- ✓ You have established a network connection.
- ✓ You have registered at connectedcooking.com.
- 1. Press the button 
- 2. Press the button **ConnectedCooking**
- 3. Next to **Connect**, press the button: **Register**
- 4. Enter your registration details or select the registration via QR code.
 - > After a short wait, a nine-digit PIN and a QR code are displayed. If you do not have a smartphone with you, you can register at www.connectedcooking.com. If you have a smartphone with you, you can scan the QR code.







Registration without smartphone

1. Write down the PIN.
 2. Log on to www.connectedcooking.com.
 3. Click on the symbol: **Asset management**
 4. Select: **Unit overview**
 5. Click on the symbol: Red cross with +
 6. In the **Name** field, enter a unit name.
 7. In the **activation key** field, enter the PIN displayed on the unit.
- >> After a short time, the unit will be displayed in the unit overview of ConnectedCooking.
- >> The display will show that the unit is connected with the ConnectedCooking server. The symbol appears in the footer: 
- >> You will receive an e-mail confirming that the unit has been successfully registered.

Registration with smartphone

- ✓ You have installed an app on your smartphone that you can use to scan QR codes.
 - ✓ You have installed the ConnectedCooking app on your smartphone.
1. Scan the QR code.
- >> After a short time, the unit will show that the unit is connected with the ConnectedCooking server. The symbol appears in the footer: 
- >> The unit will be displayed in the unit overview of ConnectedCooking.
- >> You will receive an e-mail confirming that the unit has been successfully registered.

14.4 Perform software update**Automatic software updates with ConnectedCooking**

- ✓ Your unit is connected with ConnectedCooking.
1. Press the button 
 2. Press the button  **ConnectedCooking**
 3. To activate the **Download software updates automatically** function, press the button:  **ON**
 4. Press the button 
 5. Press the button  **Service**
 6. Press the button  **Software update info**
 7. Press the button **Start installation**
- >> The software update is carried out and the unit is restarted.

Software update by USB stick

- ✓ You have connected a USB stick to the unit on which there is a software update.
 - ✓ A message is displayed telling you that a software update has been detected.
1. Confirm the message that the software update should be carried out.
- >> The software update is carried out and the unit is restarted.

15 Automatic cleaning - iCareSystem



The iCareSystem is the intelligent cleaning and descaling system in the iCombi Pro. It recognises how dirty the unit is and proposes the ideal cleaning program and the optimal quantity of care products.



15.1 General safety instructions

- For the automatic clean function, only use the Active Green cleaner tablets and care tabs recommended by the manufacturer.

This will prevent scalding and burns:

- Let the unit and all function parts cool down before you start the automatic clean.

This will prevent chemical burns:

- The care products and chemicals can cause severe chemical burns to the skin and serious damage to the eyes. Wear tight-fitting protective glasses and chemical-safe protective gloves while cleaning the unit.
- Keep the cooking cabinet door closed during the automatic clean. Corrosive cleaning agents and hot steam may otherwise escape. If you open the cooking cabinet door during automatic cleaning, a message will appear asking you to close it again.
- Do not leave the core probe hanging out of the unit during the automatic clean. The cooking cabinet door gasket could be damaged and corrosive cleaning agents may escape.
- Do not clean externally attachable core probes with the automatic clean function.
- Remove all care products and residues of care products before heating up the unit and cooking food in it.

If you come in contact with care products, proceed as follows:

- If you touch care products without chemical-safe protective gloves or other skin areas come in contact with Active Green cleaner tablets, rinse the skin area with running water for 10 minutes.
- If a care product gets into your eyes, rinse your eyes with running water for 15 minutes. Remove any contact lenses.
- If you swallow a care product, rinse out your mouth with water and immediately drink half a litre of water. Do not provoke vomiting.
- Call the emergency poison helpline or a doctor.

15.2 Cleaning modes

The 2 following cleaning modes are available for the **light**, **medium** and **strong** cleaning programs:



Eco mode

If you select this cleaning mode, less care product will be required to clean the unit when using the cleaning programs [▶ 96]. The cleaning programmes will therefore run for longer than in the normal mode.



Normal mode

If you select this cleaning mode, more care product will be used to clean the unit when using the cleaning programs [▶ 96]. The cleaning programmes will therefore be shorter than in the Eco mode.

15.3 Cleaning programmes

The following cleaning programs are available:

Programme	Mode	Description	Care product
Light	Eco / Normal	Suitable for removing light dirt and scale resulting from use of the unit at up to 200 °C.	<ul style="list-style-type: none"> ▪ Active Green cleaner tabs ▪ care tabs
medium	Eco / Normal	Suitable for removing dirt and scale resulting from cooking processes including grilling or roasting.	<ul style="list-style-type: none"> ▪ Active Green cleaner tablets ▪ care tabs
heavy	Eco / Normal	Suitable for removing heavy dirt and scale resulting from cooking processes including grilling or roasting.	<ul style="list-style-type: none"> ▪ Active Green cleaner tablets ▪ care tabs
fast	–	Suitable for an interim cleaning to quickly remove heavy soiling.	<ul style="list-style-type: none"> ▪ Active Green cleaner tabs
Rinse w/o tabs	–	Suitable for removing water-soluble dirt. This cleaning program does not reset the forced cleaning.	–
Rinsing	–	Suitable for removing calcium/chalky dirt resulting from cooking processes including baking or steaming. This cleaning program does not reset the forced cleaning.	<ul style="list-style-type: none"> ▪ care tabs



TIP

If your cooking system is connected to soft water, you should set the soft water switch to "Soft water".

15.4 Cleaning and care status

iCareSystem automatically detects the cleaning and care status of your unit.

Cleaning status


- If the display is green, the unit is clean.
- If the display is yellow, the unit is dirty. You can still continue cooking in the unit until you are asked to clean it.
- If the display is red, the unit is very dirty. Start a cleaning program immediately, at least before next being asked to clean the unit.
- If the indicator turns white, the cleaning status is 0%.

Care status

- If the care status is green, the steam generator is free of scale.
- If the display is yellow, the steam generator has some scale

- If the display is red, the steam generator has a lot of scale. Start a cleaning program immediately, at least before next being asked to clean the unit.

15.5 Start automatic clean

- ✓ The hinging racks are correctly placed in the cooking cabinet.
 - ✓ The mobile oven rack is correctly placed in the cooking cabinet.
 - ✓ If your unit is equipped with the optional integrated fat drain, take the fat drip tray out of the cooking cabinet and insert the plug into the drain pipe hole .
1. Press the button in the menu bar: 
 2. Select the desired cleaning program [► 96].
 - > With almost all cleaning programs, the cool-down function starts automatically if the cooking cabinet temperature is above 90°C.
 3. Open the cabinet door.
 4. Remove all containers, racks and trays from the cooking cabinet. **⚠ WARNING! Risk of burns! Wear safety gloves when removing trays and containers from the cooking cabinet.**



5. Unpack the displayed number of Active Green cleaner tablets and place them in the indentation in the floor drain sieve. **⚠ WARNING! Danger of chemical burns! Wear tight-fitting protective glasses and chemical-safe gloves for reliable protection when handling Active Green cleaner tabs and care tabs.**
 6. Unpack the displayed number of care tab packages and place them in the care drawer.
 7. Close the cooking cabinet door.
- >> The automatic clean starts when the door is closed.
- >> Once the automatic clean is completed, an acoustic signal will sound.



TIPS



- If foam forms in the cooking cabinet during the automatic clean although you used the recommended number of Active Green cleaner tablets, reduce the number of tabs in the next automatic clean. If foam still forms, contact your RATIONAL Service Partner.

See also

 Additional functions [▶ 46]

15.6 Abort automatic clean

You can abort all automatic cleaning programs at any time.




1. Press the button 
 - > You will be asked if you really want to cancel the clean. It will be displayed how long the process will be aborted.
2. Press the button 
3. Open the cabinet door.
4. **⚠ WARNING! Danger of chemical burns! Wear tight-fitting protective glasses and chemical-safe gloves for preparation and protection when handling Active Green cleaner tabs.** Remove the Active Green cleaner tablets from the cooking cabinet and dispose of them.
5. Rinse the cooking cabinet with water to remove residues of the Active Green cleaner tabs.
6. Close the cooking cabinet door.
 - > The process is still aborted.
 - > Once the abort is complete, you will be asked to check the cooking cabinet for residues of the Active Green cleaner tabs.
7. Open the cabinet door.
8. Close the cooking cabinet door.
 - >> The unit is now ready to be used again. The start screen will appear.

**TIP**

If there is a power outage during the automatic clean, the automatic clean will be interrupted. When the power supply is restored, the automatic clean will continue.




15.7 Forced cleaning after operating hours

If you have activated a forced cleaning process, you will be asked to clean the unit after a defined period of time. You cannot work with the unit again until the cleaning has been performed.

1. Press the button 
2. Press the button  **Cleaning**
3. Press the button  **Forced cleaning**
4. To activate the forced cleaning process, press the button: **ON**
5. To set how long you would like to pass before you receive a reminder to clean the unit, press the button: **Time until cleaning reminder** Please note that you should not indicate the operating time here, but rather the time that you want to pass until the reminder.
6. Select a value from 1 to 24 hours on the scale.
7. To set the number of hours the cleaning can be pushed back until the reminder, press the button: **Forced cleaning delay time**
8. Select a value from 1 to 24 hours on the scale.
 - >> The footer shows how many operating hours remain until cleaning needs to be carried out.

15.8 Cleaning plan

With the help of a cleaning plan, you can determine on which days of the week a forced cleaning [▶ 98] process must be carried out.

1. Press the button 
2. Press the button  **Cleaning**
3. Press the button  **Cleaning time schedule**

4. To define how the unit should behave in case of a cleaning reminder, press the button: **Cleaning time schedule time**
5. If you do not want to receive any cleaning reminders, press the button: **OFF**
6. If you do not want a warning to be displayed at the time of cleaning, press the button: **Warning**
7. If the unit is to clean itself as soon as a cleaning request appears, press the button: **Forced cleaning**
8. Press on in the icon bar to return to the overview of the cleaning time schedule.
9. Select the day on which a clean is to be performed.
10. Press the button: **ON**
11. Set the time when the clean is to be performed.
12. Press on in the icon bar to return to the overview of the cleaning time schedule.

16 Care

WARNING

Fat or food residues in the cooking cabinet

If you do not clean the cooking cabinet sufficiently, there is a risk of fire from fat and food residues.

1. Clean the unit daily.
2. In the event of fire, leave the cooking cabinet door closed. This will remove the oxygen from the fire. Turn off the unit. If the fire has spread, use a fire extinguisher that is suitable to extinguish the fire. Never use a water or foam extinguisher to extinguish the fire.

16.1 General safety instructions

This will prevent scalding and burns:

- Let the unit and all function parts cool down before you perform any cleaning.

This will prevent material damage, injury or fatal accidents:

- When performing any cleaning works, except the automatic clean, turn off the unit from the power supply.
- Spray the chemical reservoir with either the hand shower or any kind of liquid.
- Clean your unit daily even if you only use the manual steam mode.
- Do not clean the accessories/trays inside the unit when using automatic clean.

16.2 Care intervals

Care interval	Function parts
Daily	<ul style="list-style-type: none"> ▪ Cooking cabinet ▪ Press-fit door gasket ▪ Cooking cabinet door ▪ Drip tray and drain channel ▪ Core probes ▪ Accessories ▪ Hand shower
Weekly	<ul style="list-style-type: none"> ▪ Unit exterior ▪ LED cover ▪ Control panel ▪ Plastic parts
Monthly	<ul style="list-style-type: none"> ▪ Moistening nozzle

The functional parts must be cleaned according to the care interval, but can be cleaned more frequently if required.

16.3 Care products

Suitable care products

- Clean the following function parts with lukewarm water, a mild hand dishwashing detergent and a soft cloth:
 - Unit exterior
 - Cooking cabinet door glass panel
 - LED cover in the cooking cabinet door
 - Press-fit door gasket
- Clean accessories with lukewarm water, a mild hand dishwashing detergent and a soft cloth.

Unsuitable care products

Do not clean the unit, its functional parts and accessories with the following unsuitable care products:

- Scouring cleaning agents or abrasive cloths
- Substances containing hydrochloric acid, caustic solution, sulphur or other oxygen-requiring substances
- Undiluted alcohol, methanol or solvents such as acetone, benzene, toluene or xylene
- Oven cleaner or grill cleaner
- Scouring pad sponge with scrubber
- Steel wool
- High-pressure washer
- Sharp or pointed tools

16.4 Cleaning cooking cabinet door



Cleaning glass panes

1. Open the cooking cabinet door fully until it locks into place.
2. Release the locks on the glass panes by pressing lightly.
3. Swivel the glass panes of the cooking cabinet door open one after the other.
4. Clean the glass panes of the cooking cabinet door with lukewarm water, a mild hand dishwashing detergent and a soft cloth.
5. Let the glass panes of the cooking cabinet door dry completely.



Cleaning LED covers

Once you have cleaned the glass panes of the cooking cabinet door, you can also clean the LED covers. Only clean the LED covers with suitable care products [► 100].

The LED cover is between the middle and the front glass panels of the cooking cabinet door.

- ✓ The glass panels of the cooking cabinet door are unlocked.
1. Clean the LED cover with lukewarm water, a mild hand dishwashing detergent and a soft cloth.

2. Remove cleaning agent residues with clear water and a soft cloth.
3. Let the LED cover door dry completely.
4. Lock all glass panels of the cooking cabinet door back into place.

Cleaning the cooking cabinet door gasket

If you operate your unit in continuous operation and at high cooking cabinet temperatures above 260 °C and mainly cook fatty and gelatinous food, the cooking cabinet door gasket can quickly become worn. To increase the life of the cooking cabinet door gasket, clean the gasket daily.

- ✓ The cooking cabinet door is open.
1. Clean the cooking cabinet door gasket with lukewarm water, a mild hand dishwashing detergent and a soft cloth.
 2. Let the cooking cabinet door gasket dry completely.

Cleaning the door drip pan

If you operate your unit in continuous operation and at high cooking cabinet temperatures above 260 °C and mainly cook fatty and gelatinous food, the door drip pan can get very dirty. Clean daily to ensure a hygienic standard.

- ✓ The cooking cabinet door is open.
1. Clean the door drip pan with lukewarm water, a mild hand dishwashing detergent and a soft cloth.
 2. Make sure that you have cleaned away cooking residues, grease deposits and encrustations.

Clean the outlet opening of the door drip pan and the flat gasket of the drain opener.

- ✓ The cooking cabinet door is open.
1. Open the drain opener with one hand on the actuator foot and hold it securely.
 2. Clean the flat gasket and outlet with a soft cloth, lukewarm water and mild detergent to remove any encrustations. Hold the drain opener securely in the open position by hand to prevent unintentional unhooking of the mechanism.
 3. If the gasket has slipped during cleaning, put it back in the correct position.

16.5 Descaling the moistening nozzle



Required tool

- Hexagon key
1. Turn off the unit.
 2. Loosen the nut of the steaming nozzle with the hexagon key (A).
 3. Remove the steaming nozzle.
 4. **⚠ WARNING! Danger of chemical burns! Wear a mask and chemical protective gloves for reliable protection when handling descaler.** Place the steaming nozzle in descaler (B).
 5. Leave the steaming nozzle in the descaler until the scale is dissolved.
 6. Remove the descaled steaming nozzle from the descaler.
 7. Rinse the steaming nozzle thoroughly with water and then leave it to dry completely.
 8. Reassemble the steaming nozzle in reverse order.

16.6 Cleaning the air filter

NOTICE

Spraying water may damage the unit if the air filter is not correctly mounted

Protection from water jets from all directions is only assured with a correctly mounted air filter.

1. slide the air filter into the unit until it locks into place.

NOTICE

Do not use sharp objects

Do not use sharp objects such as knives to open the air filter cover as this may damage the filter holder.



Required tool

- screwdriver



1. Insert the screwdriver into the recesses of the air filter cover.
2. Press the lugs in gently.
3. Pull out the air filter.
4. Clean the air filter in the dishwasher and then leave it to dry completely.
 - > If the air filter is not clean after washing in the dishwasher, it must be replaced.
5. If the air filter is clean, slide it back into the unit.
6. Reinsert the air filter cover into the unit.

16.7 Cleaning the hand shower

1. Pull the hand shower hose out completely and hold it firmly.
2. Clean the hand shower and the hose with a soft sponge.
3. To remove stubborn scale, clean the hand shower and the hose with diluted vinegar.

16.8 Cleaning the control panel







⚠ CAUTION! Risk of cuts! The central dial has sharp edges. Wear protective gloves when cleaning the central dial and the surfaces below it.

1. Pull off the central dial by hand and without tools.
2. Clean the central dial and the surface below it with a soft cloth.
3. Replace the central dial.

If your unit is equipped with a lockable control panel, you have to unlock the lockable control panel and open the cover before cleaning the control panel.

Before you clean the display, you can lock it. This prevents accidentally starting cooking processes, performing actions or calling up functions.

1. Press and hold the button: 
 - > After a few seconds, the display lock will be activated and the symbol displayed: 
2. Clean the display with a soft cloth.
3. To lock the display, press and hold the button: 
 - > The symbol will be displayed: 
4. Pull off the central dial by hand and without tools.
5. Clean the central dial and the surface below it with a soft cloth.
6. Replace the central dial.

16.9 Cleaning accessories

NOTICE

Do not leave accessories in the cooking system during automatic cleaning.

Never leave accessories in the cooking system during automatic cleaning. This could damage your cooking system or accessories.

1. Let the accessories cool before cleaning.
2. Remove any food residues and layers of fat, starch and protein with a soft cloth.

3. In case of stubborn dirt, soak the accessories in lukewarm water and then remove the dirt with a soft cloth.

16.10 Clean the vent pipe of the drain section


If your unit was connected to an existing siphon upon installation, a vent pipe has been mounted in the drain section. If the water is soft or the unit is connected to a water softener and you frequently use the **medium** and **strong** cleaning programs, any foam that is produced when cleaning will be drained in the vent pipe. To ensure that the foam is properly drained, clean the vent pipe once per week.

1. Keep filling hot water into the vent pipe until the vent pipe is completely clean. The water should be at least 60 °C.

17 Inspiration and help

17.1 Help displayed on the unit

These operating instructions and a large number of application examples from around the world are available in the cooking system for operational assistance. The application examples show you which food you can best cook with an intelligent cooking process. You will also find all information concerning load sizes and the use of original RATIONAL accessories.

By pressing the button , the help in the Cook system will always show you the latest help content on the display, matching the area currently displayed.

17.2 Telephone help

ChefLine®

We offer a telephone consulting service to answer any questions you have about applications or recipes. Quick, simple, from cook to cook and 365 days a year. Simply call our RATIONAL ChefLine®. You can find the number for ChefLine® on the sticker on the cooking cabinet door, or in the settings under Service and at rational-online.com.

RATIONAL Service Partners



Our units are reliable and have a long service life. Should customers ever encounter technical issues; our RATIONAL Service Partners will provide fast, efficient assistance. Guaranteed spare parts supply and a weekend call-out team included. You can find the number under Settings > Service or at rational-online.com.

17.3 Help in a service call

17.3.1 Automatically transferring service data to ConnectedCooking

If you have connected your unit with ConnectedCooking, you can set it so that the service data is automatically transferred to ConnectedCooking at regular intervals.

✓ Your unit is connected with ConnectedCooking [▶ 93].

1. Press the button 
2. Press the button  **ConnectedCooking**
3. Next to **Automatically transfer service data**, press the button: **ON**

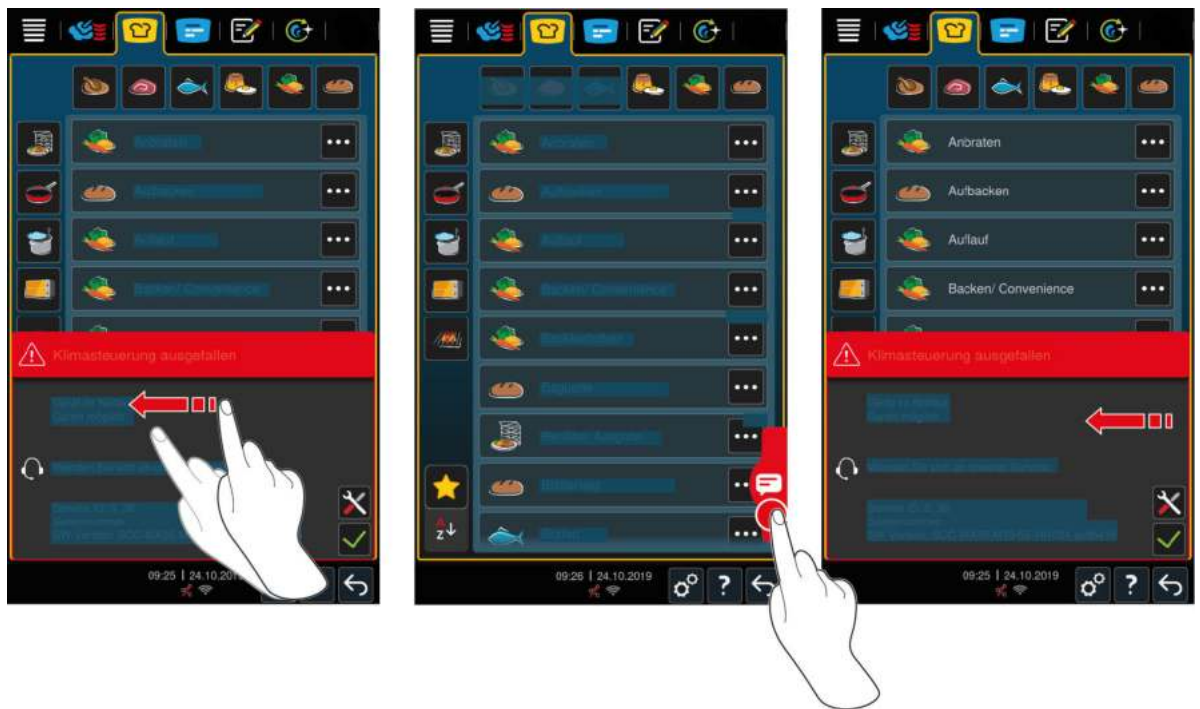
>> Service data will now transfer automatically to ConnectedCooking. You can view the data in your account at connectedcooking.com or in the ConnectedCooking app.

17.3.2 Retrieving service data

You can retrieve the service data in the settings. Click here for more information: Service [▶ 89]

17.4 Problem resolution

When an error message is displayed, you can swipe it away while you are waiting for assistance. The error message will be minimised and shown as a red symbol on the side. If you press on this symbol, the error message will be magnified again.



For all error messages, please contact your RATIONAL Service Partner. Always keep the serial number of your unit and the version number of the installed software to hand. Both can be found in the error message.

17.4.1 Error messages heating steam generator

Error report	Cause	Cooking possible
Service 10	The SC-automatic is faulty.	Yes
Service 11	The steam generator's water inlet is faulty.	Yes
Service 12	The measurement of the water quantity is incorrect.	Yes
Service 13	The water level in the steam generator is not recognised correctly.	Only the convection cooking mode is available at the moment.
Service 20.8	The temperature probe is defective.	Only the convection cooking mode is available at the moment.
Service 28.4	The temperature limit of the cooking cabinet has been exceeded.	Only the convection cooking mode is available at the moment.
Service 42.1	The water supply is faulty.	Only the convection cooking mode is available at the moment.
Service 43.1	The internal water supply is not closing.	Only the convection cooking mode is available at the moment.
Service 46.1	The water supply is faulty.	Yes

17.4.2 Error messages for gas units

If your unit is connected to the gas supply, the following additional error message could appear. For all error messages, please contact your RATIONAL Service Partner [► 106]. Always have the serial number of your unit ready.

Error report	Cause	Cooking possible
Service 32.1	The gas burner is faulty.	No

Error report	Cause	Cooking possible
	Close the shut-off valve on the gas line.	
Service 32.2	The gas burner is faulty. Close the shut-off valve on the gas line.	No
Service 32.3	The gas burner is faulty. Close the shut-off valve on the gas line.	No
Service 33.1	The gas burner is faulty. Close the shut-off valve on the gas line.	No
Service 33.2	The gas burner is faulty. Close the shut-off valve on the gas line.	No
Service 33.3	The gas burner is faulty. Close the shut-off valve on the gas line.	No
Service 34.32	The internal data communication is faulty.	Yes
Service 60	The initialisation of the ignition box is defective. Switch the unit off and on again. If the error is still displayed, call your Service Partner.	–

17.4.3 Error messages heating hot air

Error report	Cause	Cooking possible
Service 20.1	The temperature probe is defective.	No
Service 28.1	The temperature limit of the steam generator has been exceeded.	No
Service 28.2	The temperature limit of the cooking cabinet has been exceeded.	No
Service 34.1	The internal data communication is faulty.	No
Service 34.2	The internal data communication is faulty.	No
Service 34.4	The internal data communication is faulty.	No
Service 42.3	The water supply is faulty.	The steam injection is not available.
Service 42.6	The water supply is faulty.	Yes
Service 43.3	The internal water supply is not closing.	Only the convection mode is available at the moment.

17.4.4 Error messages moisture

Error report	Cause	Cooking possible
Service 20.2	The temperature probe is defective.	Yes
Service 20.4	The temperature probe is defective.	Yes
Service 30	The humidity measurement is incorrect.	Yes
Service 36	The differential pressure sensor is defective.	Yes
Service 37	The differential pressure sensor is defective.	Yes
Service 42.2	The water supply is faulty.	Yes
Service 43.2	The internal water supply is not closing.	Only the convection mode is available at the moment.

17.4.5 iCareSystem error messages - Cleaning

Error report	Cause	Cooking possible
Service 25	The water quantity required by the iCareSystem is too low.	–
Service 26	The ball valve cannot find the open position.	No
Service 27	The ball valve cannot find the closed position.	No
Service 34.8	The automatic clean does not work.	Yes
Service 43.6	The internal water supply is not closing.	Only the convection mode is available at the moment.
Service 47.1	The waste water pump is defective.	Yes
Service 47.2	The waste water pump is defective.	Yes
Service 48.1	The circulating pump is defective.	Yes
Service 48.2	The circulating pump is defective.	Yes
Service 110	An error occurred in the SC pump during the automatic clean.	No
Service 120	An error occurred in the water level recognition during the automatic clean.	No

17.4.6 iCareSystem error messages - Care

Error report	Cause	Cooking possible
Service 40	The quantity of care liquid required by the iCareSystem is too low.	Yes
Service 42.4	The water supply is faulty.	Yes
Service 43.4	The internal water supply is not closing.	Only the convection mode is available at the moment.
Service 49.1	The water supply is faulty.	Yes
Service 49.2	The water supply is faulty.	Yes

17.4.7 Notification centre

Error report	Cause	Cooking possible
Service 17	The unit model is incorrect.	No
Service 29	The board temperature is too high.	No
Service 31.1	The core probe in the cooking cabinet is defective.	Yes, you cannot use the core probe.
Service 31.2	The core probe in the cooking cabinet is defective.	Yes, but you cannot use the core probe.
Service 34.16	The internal data communication is faulty.	Yes
Service 34.64	The internal data communication is faulty.	Yes
Service 34.400	The internal data communication is faulty.	Yes
Service 41	The steam injection nozzle or the steam injection pipe has scale.	The steam injection is not available.
Service 50	The real time clock on the CPU is not initialised. Set the date and time.	Yes
Service 51	The battery is defective.	Yes
Service 52.1	The cooking cabinet lighting is not working correctly.	Yes

Error report	Cause	Cooking possible
Service 52.2	The cooking cabinet lighting is not working correctly.	Yes
Service 72	The activation temperature of a temperature probe has been exceeded.	No

18 Maintenance

You can replace the cooking cabinet door gasket yourself. Click here for more information: [Replacing the cooking cabinet door gasket \[► 112\]](#)

For the following maintenance work, contact your RATIONAL Service Partner:

- Replacing air filter

18.1 Replacing air filter

NOTICE

Do not use sharp objects

Do not use sharp objects such as knives to open the air filter cover as this may damage the filter holder.

NOTICE

Spraying water may damage the unit if the air filter is not correctly mounted

Protection from water jets from all directions is only assured with a correctly mounted air filter.

1. slide the air filter into the unit until it locks into place.

NOTICE

Only use dry air filters.

Make sure that the air filter is dry before replacing it to avoid material damage.



Required tool

- screwdriver



1. Press the lugs of the cover in gently.
2. Remove the cover and remove the air filter housing.
3. Replace the air filter.
4. Fit the air filter housing so that it clicks into place.
5. Replace the cover.

18.2 Replacing the cooking cabinet door gasket



1. Open the cabinet door.
2. Pull the cooking cabinet door gasket out from the groove and dispose of it.
3. Moisten the retaining lips of the new gasket with soapy water.
4. First press the corners of the gasket into the corners of the groove.
5. Then press the rest of the gasket into the groove.

19 Transport

19.1 Transport unit

WARNING

The castors can be damaged if the unit or the Combi-Duo is moved with the parking brakes applied

If the castors are damaged, the unit or the Combi-Duo could tip over and seriously injure you.

1. Release the parking brakes on the castors before you transport or move the unit or the Combi-Duo.
2. Only move the cooking system or Combi-Duo with two people at a time to ensure secure transport.

WARNING

The castors can be damaged if the alignment of the castors is changed with the parking brakes applied

If the castors are damaged, the unit or the Combi-Duo could tip over and seriously injure you.

1. If the castors protrude from under the unit or the stand and you wish to change the alignment of the castors, first release the parking brakes and then turn the castors.
2. Do not kick against the castors.

CAUTION

Units could tip over when transported over thresholds or inclinations

When moving units over thresholds or inclinations, the unit could tip over and injure you.

1. Carefully move units over thresholds and inclinations.

CAUTION

Units and Combi-Duos on castors can tip over when transported or moved

If your unit is on castors or your Combi-Duo is on a stand with castors and you do not release the parking brakes before you transport or move the unit, the unit or Combi-Duo may tip over and injure you.

1. Release the parking brakes on the castors before you transport or move the unit or the Combi-Duo.
2. Apply the parking brakes again after transport.

NOTICE

Have your service partner transport your unit to ensure a smooth process.

You can move units that are on mobile stands or castors.

- ✓ The steam generator is emptied and the cleaning box is pumped out. **Both of these actions should only be carried out by a service partner.**
1. Before you transport the unit to another location, you must properly disconnect the unit from the power supply and from the water and waste water pipes.
 2. Once you have transported the unit to its new space, you must properly reconnect the unit to the power supply and the water and waste water pipes and apply the parking brakes on the mobile stand or the castors.



3. If you would like to pull the unit forwards slightly when cleaning the kitchen, release the parking brakes of the mobile stand or the castors.
4. Carefully pull the unit forwards.
5. Once you are finished with cleaning the kitchen, carefully slide the unit back into place and apply the parking brakes.

20 Decommissioning and disposal

20.1 Decommissioning

Contact your RATIONAL Service Partner if you would like to decommission the unit.

20.2 Disposal



Old units contain recyclable materials. Dispose of old units in an environmentally sound way using the appropriate disposal systems.

21 Technical data

Please also note the technical data on the model plate. The model plate is on the left next to the control panel.

21.1 Units with an electrical connection

	Value
Weight (without packaging) Model 20-1/1	252 kg
Weight (without packaging) Model 20-2/1	325 kg
Protection class	IPX5
Environmental conditions	10 – 40 °C
Airborne sound emission	≤60 dBA
WiFi standard	IEEE 802.11 b/g/n
Frequency and max. transmission power WLAN	2.4 GHz/19.5 mW

21.2 Units with a gas connection

	Value
Weight (without packaging) Model 20-1/1	271 kg
Weight (without packaging) Model 20-2/1	358 kg
Protection class	IPX5
Environmental conditions	10 – 40 °C
WiFi standard	IEEE 802.11 b/g/n
Frequency and max. transmission power WLAN	2.4 GHz/19.5 mW
Airborne sound emission	≤65 dBA

21.3 Models and version names

The model names and the version on the model plate are different. Please refer to the classification in this table.

Model	Version name
LMxxxF	iCombi Pro 20-1/1
LMxxxG	iCombi Pro 20-2/1

21.4 Conformity

21.4.1 Units with an electrical connection

This unit meets the following EU directives:

- Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment
- Directive 2006/42/EU on machinery
- Directive 2014/30/EU on the harmonisation of the laws of the Member States relating to electromagnetic compatibility
- Directive 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment, including 2015/863/EU

This unit meets the following European standards:

- EN 60335-1:2012 + A11:2014 + A13:2017
- EN 60335-2-42:2002 + A1:2008 + A11:2012
- EN 61000-3-2:2014; EN 61000-3-3:2013
- EN 55014-1:2006+A1:2009+A2:2011; EN55014-2:2015

- EN 62233:2008
- EN 1717:2000

21.4.2 Units with a gas connection

This unit meets the following EU directives:

- Regulation (EU) 2016/426 on units burning gaseous fuels
- Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment
- Directive 2006/42/EU on machinery
- Directive 2014/30/EU on the harmonisation of the laws of the Member States relating to electromagnetic compatibility
- Directive 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment, including 2015/863/EU

This unit meets the following European standards:

- EN 60335-1:2012 + A11:2014 + A13:2017
- EN 60335-2-42:2002 + A1:2008 + A11:2012
- EN 60335-2-102:2016
- EN 61000-3-2:2014; EN 61000-3-3:2013
- EN 55014-1:2006+A1:2009+A2:2011; EN55014-2:2015
- EN 62233:2008
- EN 203-1:2014; EN203-2-2:2006; EN 203-3-:2009
- EN 1672-1:2014
- EN 1717:2000

22 Regulatory Information

USA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC ID: 2AUI6-LM1

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RATIONAL NEW ZEALAND

12 Reg Savory Place East Tamaki Auckland 2013
Tel. +64 0508 152 264
Fax: +64 09 636 4434
E-Mail: info@rationalnz.co.