

ConnectedCooking
iCombi
iVario
iHexagon

Original Installation Manual



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1 Software requirements

Check that the cooking system has the correct software version. The use of the minimum required software version is a prerequisite for networking the cooking system.

An overview of the required software versions can be found in Chapter 6. The iHexagon is compatible with any software version.

If an older version of the software is being used on the cooking system, a manual software update is required. You can find detailed information about this on the RATIONAL Service website:

connectedcooking.com

2 Connecting the cooking system to the Internet

2.1 Establishing the physical connection of the cooking system

First, you need to establish a physical connection to the Internet. Depending on the network environment, there are several ways to connect the RATIONAL cooking system to the Internet.

2.1.1 Connection with LAN/Ethernet

Check with your IT and building services department whether a LAN connection to the Internet via Ethernet is possible. An RJ45 cable and a cable socket connected to the LAN are required for each cooking system to be networked. The box should either be mounted out of the splash zone or be splash proof (IP67 - protection against dust and jet sprays from all directions). If a separate LAN socket is not available for each cooking system, the cables can be connected directly to a Layer 2 Ethernet hub or switch outside the splash zone.

The cooking system must now be connected with an Ethernet cable.

2.1.2 Connection with WLAN/WiFi

If an Ethernet connection is not possible, the cooking system can be connected to a WLAN router/access point using a WiFi adapter. The access point should provide at least 50 Mbps bandwidth on the WLAN side and sufficient radio coverage at the location of the devices to be networked. It is recommended that the WLAN router/access point is placed directly in front of or above the cooking system on the ceiling, never behind the cooking system.

2.2 Setting up the network settings

2.2.1 Setting up the connection with the Network Assistant

Start Network Assistant

The Network Assistant can help you set up the network settings. You can get help with either setting up the WiFi connection or the LAN connection.

Step	Info/button	Description
1		Go to the settings of your cooking system.
2		Select the Network settings button.
3		Press the Start Network Assistant button.
4		Confirm with Yes.
5		Now you will be asked if you want assistance with the network settings. You can choose between two options: 1. WiFi connection: enable WiFi active with ON 2. LAN connection

6		Option 1. WiFi connection: 1. Press the WiFi button. 2. Identify your desired WiFi network and select it. 3rd Enter the WiFi password. 4. Confirm by pressing the green tick at the bottom right of the display. The cooking system will now connect to the WiFi network. DHCP is also automatically enabled with the WiFi connection.
7	 	Option 2. LAN connection: 1. Recommended option: DHCP ON If DHCP is enabled: ON is selected, the cooking system automatically obtains all its network settings from the DHCP server. Option 2: DHCP OFF Press the button: DHCP enabled: OFF to edit the following network settings: - IP address - IP Gateway - IP Netmask - DNS 1
8		Select Later when configuring the proxy server.

Network status

In case of connection problems, you can perform network diagnostics in the same menu.

The Network status button can be used to check whether there is a connection to the DHCP server and to the Internet. The network status display shows whether the connection is complete, partial or unsuccessful.



Pict. 1: Connection successful



Pict. 2: Connection failed

2.2.2 Setting up the connection manually

Network administrator (IT, IT service provider) support is recommended for the next chapter.

Step	Info/button	Description
1		Go to the settings of your cooking system.
2		Select the Network settings button.
3		Select LAN if you have connected the cooking system using an Ethernet cable. If you want to connect your cooking system via WiFi, select WiFi.
4		Option 1. LAN connection: If DHCP is enabled: ON is selected, the cooking system automatically obtains all its network settings from the DHCP server. If DHCP is disabled: OFF (Network does not support DHCP) is selected, the following network settings can be applied: - IP address - IP Gateway - IP Netmask - DNS 1
5		Option 2. WiFi connection: 1. Enable WiFi with ON. 2. Open WiFi options.

		3. Identify your desired WiFi network and select it. 4. Enter the WiFi password. 5. Confirm your entry with the green tick. The cooking system will now connect to the WiFi network. DHCP is also automatically enabled with the WiFi connection.
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2.2.2.1 Hidden SSID

You need the exact network name provided by the network administrator. The type of encryption used for the hidden network and the WiFi password used by the network are also required.

Step	Info/button	Description
1		Go to the settings of your cooking system.
2		Select the Network settings button.
3		Press the WiFi button.
4		Now select the Manually connect to WiFi button.
5		Click the Security button to select the type of encryption.
6		Enter the SSID and password in the two blank fields.
7		Confirm the entry with the green tick.
8		Once the connection has been established, the network will appear in the network overview: Connect to WiFi.

The connection can be checked as described in section 2.2.1 Network status.

2.2.2.2 Identifying the MAC addresses

The MAC address(es) can be found in the following settings.

Mainboard MAC address:

Step	Info/button	Description
1		Go to the settings of your cooking system.
2		Select the Network settings button.
3		Select the LAN function group. The MAC address can be identified here.

WiFi module MAC address:

Step	Info/button	Description
1		Go to the settings of your cooking system.
2		Select the Network settings button.
		Option 1: connected to WiFi 1. Press the WiFi button. 2nd The Change adapter options button is enabled and can be selected. The MAC address can be identified here.
3		Option 2: not connected to WiFi 1. Press the Connect to WiFi button. 2. Identify your desired WiFi network and select it. 3rd Enter the WiFi password. 4. Confirm your entry with the green tick. 5. Use the arrow to go back to the previous page. 6. The Change adapter options button is now enabled and can be selected. The MAC address can be identified here.

3 Registering the cooking system in ConnectedCooking

3.1 ConnectedCooking settings on cooking system

Then enable ConnectedCooking in the menu of the same name on your cooking system:

Step	Info/button	Description
1		To do this, select the Settings icon at the bottom of the main screen.
2		If necessary, use your finger to move the view upwards.
3		To do this, select the ConnectedCooking icon.
4		Enable the connection to ConnectedCooking by logging in. You now have the option of logging in directly to an existing ConnectedCooking account via account login or registering with a QR code login. Registration by logging in to ConnectedCooking: Enter the following information: - ConnectedCooking e-mail address - ConnectedCooking password - The freely selectable name of the cooking system Registration with QR code login: The registration code appears automatically. Write down the code. The code is only valid for as long as it is shown on the display. Log in to the ConnectedCooking Internet platform and register the cooking system by entering the 9-digit registration code. Alternatively, you can scan the cooking system's QR code in the ConnectedCooking app to register. Details on this can be found in the following chapters.

The following functions should also be enabled with ON in the ConnectedCooking menu:

- Automatic time synchronisation
- Automatically transfer HACCP data
- Allow remote access
- Download software updates automatically

3.2 Registering the cooking system on the ConnectedCooking Internet platform

- a. Open app.connectedcooking.com in your browser:
- b. Log in with your username and password.

- c. Asset management > My cooking systems > Cooking system overview > +
Add to assign the cooking system to your account by entering:
 - Freely selectable name of the cooking system.
 - Enter the registration code.
 - Select the ConnectedCooking group.

Save your entries. The cooking system will now appear in the overview in Asset management/My cooking systems.

3.3 Registering the cooking system in the ConnectedCooking app

As an alternative to the ConnectedCooking Internet platform, the cooking system can also be registered with the ConnectedCooking app:

- a. Download the app from the App Store or Google Play Store.
- b. Log in to the app with your username and password.
- c. Cooking systems > + to assign the cooking system to your account by entering:
 - Freely selectable name of the cooking system.
 - Enter the registration code or scan the cooking system's QR code.
 - Select the ConnectedCooking group.

Save your entries. The cooking system will now appear under Cooking systems in the app.

NOTICE

iHexagon:

The connection may be interrupted while the microwave programs are running if the cooking system is connected to WiFi.

4 Troubleshooting

4.1 The cooking system does not appear in ConnectedCooking

Is the cooking system already connected to the Internet?

- If not, follow the procedure for new connections (from Chapter 2).
- If so, you can use a connection test to see if your connection to the Internet is working. You will find instructions on this in the following chapter.

4.2 Network diagnostics

Please check the connection as follows:

Step	Info/button	Description
1		Select the System settings icon on the main screen below.
2		If necessary, use your finger to move the view upwards.
3		Select the ConnectedCooking function group.
4		Check the text in the first field ConnectedCooking. This shows one of three possible results of the connection test: - ConnectedCooking not available - ConnectedCooking available but not connected - Connected with ConnectedCooking

From this result, the following further case distinctions can be derived for the measures to be taken now:

Case 1: A connection problem was detected during the connection test: ConnectedCooking cannot be reached

- a. Check that the date and time on your RATIONAL cooking system are correct. The time offset must not exceed 20 minutes.
- b. Follow the instructions for new connections (from Chapter 2) or if you have problems with the network connection (Chapter 4.3).

Case 2: The connection test was successful, but the cooking system does not appear in ConnectedCooking: ConnectedCooking can be reached, but not connected

- a. The connection to the network is working. The cooking system is not yet connected to ConnectedCooking.
- b. Follow the instructions for registering a cooking system in ConnectedCooking (Chapter 3).
- c. If no activation code is displayed here and the Logout field is also not visible, there is still a problem with the network connection (Chapter 4.3).

Case 3: The connection test was successful, but the cooking system does not appear in ConnectedCooking: Connected to ConnectedCooking

The cooking system is already connected to an account. If you are sure that the device is not connected to your account, follow these steps:

Step	Info/button	Description
5		Select the Log out of my ConnectedCooking account button.
6		Confirm the settings with the green tick.
7		The cooking system is now ready to connect to a new account (Chapter 3).

4.3 Problem with the cooking system's network connection

Escalate this to the IT and building services experts who are responsible for your network. They can help you to establish a functioning Internet connection for the cooking system. Inform them of the location and the minimum network requirements (Chapter 6). Check with the experts:

- a. The physical connection to the network (Chapter 2.1).
- b. The logical network settings (Chapter 2.2).
- c. The configuration of MAC filters and of the firewall.

Repeat the connection test (Chapter 4.2) as soon as you have received information from the network operator that the network allows a functional connection in accordance with the minimum requirements (Chapter 6).

5 ConnectedCooking Support

ConnectedCooking Support contact details and detailed documentation are available in ConnectedCooking under the Support menu item.

6 Network requirements for ConnectedCooking

Requirements for successfully connecting the RATIONAL cooking system to your network:

- The cooking system is equipped with an Ethernet connection or
- The cooking system has an internal WiFi interface (e.g. iCombi Pro, iVario Pro or the additional WiFi option for the iCombi Classic cooking system) or
- The WiFi adapter accessory (RATIONAL 60.76.714) is installed. The WiFi adapter is available for the following units: SelfCookingCenter®: 6-1/1 – 20-2/1, LM1: iCombi Pro (iCP) 6-1/1 – 20-2/1, LM2: iCombi Classic (iCC) 6-1/1 – 20-2/1.
- The cooking system displays the current date and time.
- The cooking system is equipped with the current software version, see Table 2.

To connect the cooking system to the Internet, proceed as follows:

- LAN: network connection socket with cable near the cooking system. Older models may need to be retrofitted with an Ethernet connection.
- WiFi (802.11b/g/n 2.4 GHz, WPA2): Good reception at installation location via internal or external WiFi interface.

The cooking system is networked as follows:

- LAN: an RJ45 cable connects the RATIONAL cooking system to a nearby network connection
- WiFi: A built-in or external WiFi interface (e.g. article no. 60.76.714) that connects to a WiFi 802.11b/g/n (2.4 GHz) access point.
- All network components must be installed in such a way that they are protected against splashes and jets of water according to the environmental conditions.

Access to the ConnectedCooking application

To access ConnectedCooking, all you need is an Internet browser (Chrome, Firefox, MS Edge in the latest version) and access to connectedcooking.com via port 443. ConnectedCooking does not install any programs on your computer.

All options require the following network settings:

- If DHCP is used, the IP address, netmask, gateway and DNS server are assigned.
- Without DHCP, the settings must be set by the network administrator.

Switch off	Objective	Protocol	Port	Direction	Description
SelfCookingCenter, VarioCookingCenter iCombi Pro, iVario Pro	*.connected-cooking.com	TCP	443	Outbound	HACCP data; Device data if proxy server
SelfCookingCenter, VarioCookingCenter iCombi Pro, iVario Pro	*.connected-cooking.com	TCP	8883	Outbound	Device data
SelfCookingCenter, VarioCookingCenter iCombi Pro, iVario Pro	Customer DNS server	TCP/UDP	53	Outbound	DNS service
SelfCookingCenter, VarioCookingCenter iCombi Pro, iVario Pro	Customer DHCP server	UDP	68	Broadcast	DHCP service
iCombiClassic	*.connected-cooking.com	TCP	8443	Outbound	HACCP data; Device data if a proxy server
iCombiClassic	*.connected-cooking.com	TCP	8884	Outbound	Device data
iCombiClassic	Customer DNS server	TCP/UDP		Outbound	DNS service

Tab. 1: Communication ports

Switch off	Min. required version	Availability
SelfCookingCenter	SCC_07-00-10-6.34 or higher	June 2022
VarioCookingCenter	VCC-01-02-04.7 or higher	June 2022
iCombi Pro	LM100-16.2.25 or higher	June 2022
iCombi Classic	LM200-8.0.0 or higher	June 2022
iVario Pro	LMX-2.10.0 or higher	June 2022
iHexagon	Compatible with any software version	March 2024

Tab. 2: Software versions

