

**ConnectedCooking**

**iCombi**

**iVario**

**iHexagon**

Original installation instructions





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## 1 **Software requirements**

Make sure that the cooking system has the correct software version. Using the minimum required software version is mandatory 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 the cooking system is using an older software version, a manual software update will be necessary. You can find detailed information about this on the RATIONAL Service website:  
[connectedcooking.com](http://connectedcooking.com).

## 2 Connecting the cooking system to the Internet

### 2.1 Establishing the physical cooking system connection

First, a physical connection to the Internet must be established. There are several ways to connect the RATIONAL cooking system to the Internet, depending on the network environment.

#### 2.1.1 LAN/Ethernet connection

Clarify with your IT and building services department whether a wired Internet connection is possible via Ethernet. Each cooking system to be networked will require a RJ45 cable and a cable box connected to the LAN. The box should either be protected against splashing water (IP67 protection against dust and water jets from all directions) or installed outside splash water zones. If a separate LAN box is not available for each cooking system, the cables can also be connected directly to a Layer 2 Ethernet hub or switch outside the splash zone.

After that, connect the cooking system using an Ethernet cable.

#### 2.1.2 WLAN/WiFi connection

If an Ethernet connection is not possible, the cooking system can be connected to a WLAN router/access point via a WiFi adapter. The access point should offer at least 50Mb/s bandwidth on the WLAN side and sufficient wireless coverage at the installation location of the cooking systems to be networked. It is advisable to position the WLAN router/access point directly in front of or above the cooking system on the ceiling, never behind the cooking system.

## 2.2 Configuring network settings

### 2.2.1 Setting up the connection with the network wizard

#### Starting the network wizard

The Network Wizard can help you with network settings. It can assist you in setting up either a wired connection or a wireless one.

Step	Info/Button	Description
1		Open the Settings menu on your cooking system.
2		Select the Network Settings button.
3		Press the Start Network Wizard button.
4		Press Yes to confirm the start.
5		You will then be asked whether you want assistance with network settings. You can choose one of two options: 1. WLAN connection: Activate WLAN by switching it to ON 2. LAN connection

6		<p>Option 1. Wi-Fi connection:</p> <ol style="list-style-type: none"> <li>1. Press the WLAN button.</li> <li>2. Find your desired WLAN and select it.</li> <li>3. Enter the WiFi password.</li> <li>4. Confirm your choice by pressing the green check mark at the bottom right of the display.</li> </ol> <p>The cooking system will now connect to the WLAN. DHCP will also be activated automatically with the WLAN connection.</p>
7	 	<p>Option 2. LAN connection:</p> <ol style="list-style-type: none"> <li>1. Recommended option: DHCP ON</li> </ol> <p>If DHCP is active: when ON is selected, the cooking system will automatically obtain all network settings from the DHCP server.</p> <p>Option 2: DHCP OFF</p> <p>Press the button: DHCP active: OFF to be able to edit the following network settings:</p> <ul style="list-style-type: none"> <li>- IP address</li> <li>- IP gateway</li> <li>- IP subnetmask</li> <li>- DNS 1</li> </ul>
8		<p>Select Later when configuring the proxy server.</p>

### Network status

You can run network diagnostics in the same menu to troubleshoot connection issues.

The Network status button can be used to check whether the cooking system is connected to the router and the Internet. The network status display shows whether connection was completely, partially, or not successful.



Fig. 1: Connection successful



Fig. 2: Connection failed

### 2.2.2 Manual connection setup

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

Step	Info/Button	Description
1		Open the Settings menu on your cooking system.
2		Select the Network Settings button.
3	 	Select LAN if the cooking system is connected via Ethernet cable. If you want to connect your cooking system via WLAN, select WLAN.
4	 	Option 1. LAN connection: If DHCP is active: when ON is selected, the cooking system will automatically obtain all network settings from the DHCP server. If DHCP inactive: when OFF (Network does not support DHCP) is selected, the following network settings can be edited: - IP address - IP gateway - IP subnetmask - DNS 1
5		Option 2. WLAN connection: 1. Activate WLAN by switching it ON.

		<ol style="list-style-type: none"> <li>2. Open WLAN options.</li> <li>3. Find your desired WLAN and select it.</li> <li>4. Enter the WiFi password.</li> <li>6. Confirm your choice by activating the green check box.</li> </ol> <p>The cooking system will now connect to the WLAN. DHCP will also be activated automatically with the WLAN connection.</p>
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### 2.2.2.1 Hidden SSID

You will need the exact network name provided by the network administrator. You will also need the type of encryption used for the hidden network and the network WLAN password.

Step	Info/Button	Description
1		Open the Settings menu on your cooking system.
2		Select the Network Settings button.
3		Press the WLAN button.
4		Now select Manual WLAN Connection.
5		Click the Security button to select the type of encryption.
6		Enter the SSID and password in the two empty fields.
7		Confirm your choice by pressing the green check mark.
8		Once the connection has been established, the network will be displayed in the network overview under: Connect to WLAN.

Check the connection 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		Open the Settings menu on your cooking system.
2		Select the Network Settings button.
3		Select the LAN function group. The MAC address will be visible here.

#### WLAN module MAC address:

Step	Info/Button	Description
1		Open the Settings menu on your cooking system.
2		Select the Network Settings button.
		Option 1: connected to Wi-Fi 1. Press the WLAN button. 2. The Change Adapter Options button is active and selectable. The MAC address will be visible here.
3		Option 2: not connected to Wi-Fi 1. Press the Connect to WLAN button. 2. Find your desired WLAN and select it . 3. Enter the WiFi password. Confirm your choice by pressing the green check mark. 5. Use the arrow to return to the previous page. 6. The Change Adapter Options button is active and selectable. The MAC address will be visible here.

### 3 Registering the cooking system on ConnectedCooking

#### 3.1 ConnectedCooking settings on the cooking system

Activate ConnectedCooking under the cooking system menu of the same name:

Step	Info/Button	Description
1		To do this, select the Settings icon on the main screen below.
2		Swipe up with one finger to change the view if needed.
3		To do this, select the ConnectedCooking icon.
4		<p>To activate the connection to ConnectedCooking, log in. You can now either log into an existing ConnectedCooking account directly or use a QR code login to register.</p> <p><b>Registering by logging into ConnectedCooking:</b></p> <p>Enter the following information:</p> <ul style="list-style-type: none"> <li>- ConnectedCooking e-mail address</li> <li>- ConnectedCooking password</li> <li>- Cooking system name (free input)</li> </ul> <p><b>Registration with QR code login:</b></p> <p>The registration code will appear automatically. Write the code down. The code is only valid for as long as it is being displayed. Log in to the ConnectedCooking platform and register the cooking system by entering the 9-digit registration code.</p> <p>Alternatively, you can register the cooking system by scanning its QR code using the ConnectedCooking app.</p> <p>Details on this can be found in the following chapters.</p>

The following functions should also be activated (switched ON) in the ConnectedCooking menu:

- Automatic time synchronization
- Transfer HACCP data automatically
- Allow remote access
- Download software updates automatically

#### 3.2 Registering the cooking system on the ConnectedCooking platform

- a. Open [app.connectedcooking.com](http://app.connectedcooking.com) in your browser:
- b. Log in with your username and password.
- c. Cooking system management > My cooking systems > Cooking system overview > + Add to assign the cooking system to your account by entering:

- Cooking system name (free input).
- Enter the registration code.
- Select the ConnectedCooking group.

Save your selections. The cooking system will now be displayed on the overview screen under Cooking System Management/My Cooking Systems.

### 3.3 Registering the unit with the ConnectedCooking app

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

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

Save your selections. The cooking system will now appear in the app under Cooking Systems.

#### NOTE

**iHexagon:**

Running microwave programs while connecting the cooking system via WLAN may disrupt the connection.

## 4 Troubleshooting

### 4.1 Cooking system not showing up in ConnectedCooking

Is the cooking system connected to the Internet?

- If not, please follow the procedure for new connections (Chapter 2 onward).
- If so, run a connection test to determine whether the connection to the Internet is working. See the next chapter for instructions.

### 4.2 Network diagnostics

Check the connection as follows:

Step	Info/Button	Description
1		Select the System Settings icon on the main screen below.
2		Swipe up with one finger to change the view if needed.
3		Select the ConnectedCooking function group.
4		Check the text in the first ConnectedCooking field. It will indicate one of the three possible results of the connection test: <ul style="list-style-type: none"> <li>- ConnectedCooking unavailable</li> <li>- ConnectedCooking available, but not connected</li> <li>- Connected to ConnectedCooking</li> </ul>

Proceed as follows, depending on the results of the connection test:

**Case 1: A connection problem was detected during the connection test: ConnectedCooking is not available**

- a. Check that the date and time on your RATIONAL unit are correct. The time discrepancy must not exceed 20 minutes.
- b. Follow the instructions for the new-connection procedure (chapter 2 et seq) or for troubleshooting connection issues (chapter 4.3).

**Case 2: The connection test was successful, but the cooking system is not being displayed in ConnectedCooking: ConnectedCooking available, but not connected**

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

**Case 3: The connection test was successful, but the cooking system is not being displayed in ConnectedCooking: Connected to ConnectedCooking**

The cooking system has already been registered to a different account. If you are sure that yours is not the account the cooking system is registered to, proceed as follows:

Step	Info/Button	Description
5		Select the Log out of my ConnectedCooking Account button.
6		Confirm that you wish to log off by pressing the green check mark.
7		The cooking system is now ready to connect to a new account (Chapter 3).

### 4.3 Problem with the cooking system network connection

Contact the IT and building services experts responsible for your network. They can help you establish a functional Internet connection for the cooking system. Notify them of the location and the minimum network requirements (chapter 6). Work with the experts to check the following:

- 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 firewall.

Repeat the connection test (chapter 4.2) once the network operator notifies you that the network allows a functional connection in accordance with the minimum requirements (chapter 6).

## 5 **ConnectedCooking Support**

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

## 6 ConnectedCooking network requirements

**Requirements for successfully adding 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 on the iCombi Classic cooking system) or
- The WiFi adapter accessory (RATIONAL 60.76.714) is installed. The WiFi adapter is available for the following models: SelfCookingCenter®: 6-half size – 20-full size, LM1: iCombi Pro (iCP) 6-half size – 20-full size, LM2: iCombi Classic (iCC) 6-half size – 20-full size.
- The cooking system displays the current date and time.
- The cooking system has the current software version installed, see Table 2.

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

- LAN: Network connection box with cable near the cooking system. It may be necessary to retrofit older models with an Ethernet connection.
- Wi-Fi (802.11b/g/n 2.4 GHz, WPA2): Good reception at the installation site via internal or external Wi-Fi interface.

**To network the cooking system, proceed as follows:**

- LAN: the RATIONAL unit is connected via RJ45 cable to a nearby network connection
- Wi-Fi: A built-in or external Wi-Fi interface (e.g. Article no. 60.76.714) that connects to a Wi-Fi 802.11b/g/n (2.4 GHz) access point.
- All network components must be installed such that they are protected against splashing and spraying water in accordance with the ambient conditions.

**Accessing the ConnectedCooking application**

To access ConnectedCooking, you only need an Internet browser (Chrome, Firefox, MS Edge in the current version) and access to [\\*connectedcooking.com](http://*connectedcooking.com) via port 443. ConnectedCooking does not install any programs on your computer.

**All options require the following network settings:**

- If using DHCP, the IP address, netmask, gateway, and DNS server are assigned.
- Without DHCP, the network administrator is responsible for these settings.

Cooking system	Target	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	Machine 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	Machine data
iCombiClassic	Customer DNS server	TCP/ UDP		Outbound	DNS Service

Tab. 1: Communication ports

Cooking system	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







