

# SelfCookingCenter® XS UV and UV Plus CombiMaster® Plus XS UV and UV Plus Original Installation Manual



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## Contents

Device transfer.....	4
1 Introduction.....	5
1.1 About this manual.....	5
1.2 Warnings used.....	6
1.3 Warranty.....	7
2 Safety instructions.....	7
3 Installation instructions.....	8
4 Device transportation.....	10
5 Setting up the device.....	12
5.1 Device dimensions.....	12
5.2 Minimum distances.....	13
5.3 Securing the device.....	16
6 Electrical connection.....	17
6.1 General information.....	17
6.2 Power supply cable.....	19
6.3 Equipotential bonding.....	20
6.4 Connection values.....	20
7 Water connection.....	21
7.1 Prerequisites.....	21
7.2 Device water connection.....	22
7.3 Water treatment.....	23
7.4 Selecting water filters.....	23
8 Wastewater connection.....	25
9 Ventilation, technical data, heat dissipation.....	27

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10	Initial start-up .....	28
11	Maintenance: .....	31
12	Service parts .....	34
12.1	UltraVent .....	34
12.2	UltraVent Plus .....	35
13	Options .....	36
14	Conversion tables .....	37
15	Declaration of conformity .....	39

## Device transfer

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### Device transfer

Dealer	Specify for all queries:
Installer	Appliance model
	<input type="text"/>
	Device no.:
	<input type="text"/>
	Set to gas type:
	<input type="text"/>
	Your device was checked by:
	<input type="text"/>

# 1 Introduction

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## 1 Introduction

### 1.1 About this manual

- > This installation manual is part of the device, and contains information on its safe installation.
- > Read this installation manual completely before installing the device.
- > This installation manual must be kept available to installers at all times at the installation location.
- > Keep this installation manual on hand throughout the entire life of the device.
- > This installation manual is to be passed on to any subsequent operators of the device.

#### Target group

The target group for this installation manual are competent technicians who are familiar with the process of installing and operating the device.

#### Illustrations

All illustrations in this manual are examples only. Deviations between these illustrations and the device on site are possible.

This manual applies to the following devices:

- > SelfCookingCenter® XS UV
- > SelfCookingCenter® XS UV Plus
- > CombiMaster® Plus XS UV
- > CombiMaster® Plus XS UV Plus

Abbreviations used in this manual:

Product name	Abbreviation used
SelfCookingCenter® XS UV	SCC
CombiMaster® Plus	CMP
UltraVent	UV

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

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# 1 Introduction

## 1.2 Warnings used



**DANGER!**

Directly hazardous situation that may result in severe injury or death.



**WARNING!**

Possibly hazardous situation that could potentially result in serious injury or death.



**CAUTION!**

Possibly hazardous situation that could result in minor injury.



**CAUTION!**

Fire hazard!



**CAUTION!**

Danger of burns!



**CAUTION!**

Corrosive substances!



**DANGER!**

High voltage.

Caution, danger to life

Non-compliance can result in severe injury or death.



**ATTENTION!**

Non-compliance may result in material damage.

# 1 Introduction

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## 1.3 Warranty

Exceptions to the warranty include

- > Damage to glass, light bulbs and seal materials,
- > Damage resulting from improper use, installation, maintenance, repair or descaling,
- > Use of the device for purposes other than those for which it is intended,
- > Modifications or technical alterations to the device not authorized by the manufacturer,
- > Usage of non manufacturer-original service components,
- > Damage resulting from failure to observe the instructions in this manual.

## 2 Safety instructions

Incorrect installation

- > Incorrect installation, service, maintenance or cleaning of this device can result in damage, injury or death, as can modifications to the device. Read the installation manual carefully prior to installation.

Device usage

- > The device may only be used for purposes of cooking food in commercial kitchens. All other uses are counter to its intended purpose, and may be dangerous.

Operating personnel

- > This device must not be used by children or by persons with reduced physical, sensory or mental capabilities, or by persons with insufficient experience and/or knowledge, unless such persons are under the supervision of another person who takes responsibility for their safety.
- > To avoid accidents or damage to the device, it is imperative that operating personnel receive regular training and safety instructions.

## 3 Installation instructions

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### 3 Installation instructions

- |                             |  |
|-----------------------------|--|
| Standards                   | <ul style="list-style-type: none"><li>&gt; The mentioned standards are according to German regulations.</li><li>&gt; Local and country-specific standards and regulations regarding the installation and operation of commercial cooking appliances must be observed at all times.</li><li>&gt; In all other countries, the corresponding country-specific standards and regulations are to be observed.</li></ul>                     |
| Liability / Warranty        | <ul style="list-style-type: none"><li>&gt; Damage occurring as a result of non-compliance with installation instructions is excluded from the warranty.</li><li>&gt; Installations and repairs not carried out by authorized professionals or not using original spare parts, and technical modifications to the machine which are not approved by the manufacturer, void the manufacturer's warranty and product liability.</li></ul> |
| Conformity                  | <ul style="list-style-type: none"><li>&gt; Device conformity is in reference to the overall unit at the time of delivery. The operator is responsible for ensuring extended conformity following any expansions/connection of additional functions.</li></ul>  |
| Connection work             | <ul style="list-style-type: none"><li>&gt; The necessary connections (water, electricity, and gas) must only be set up by trained professionals in accordance with local regulations.</li></ul>  |
| Prior to installation       | <ul style="list-style-type: none"><li>&gt; Check the device for transport damage. If you suspect the device has been damaged in transit, contact your specialist dealer/freight forwarder immediately!</li></ul>   |
| Disposing of old appliances | <ul style="list-style-type: none"><li>&gt; When the device reaches the end of its service life, it must not be taken to a municipal collection point for trash or used electrical appliances. We would be pleased to assist you in disposing of the device.</li></ul>  |



# 1 Introduction

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Air filter maintenance:

- > The device automatically detects dirty air filters. It will display a service prompt instructing you to replace the air filter.
- > Never operate the device without the air filter.

When replacing the air filter, please note:

The user may replace the air filter. To replace the air filter, carefully latch the new filter into the correct position. Follow the instructions in the Building Equipment and Appliances chapter of the user's manual.

Air filter part number: 40.04.771

## 4 Device transportation

### 4 Device transportation



#### CAUTION!

Risk of injury!

Note device weights.

Use lifting aids.

Wear safety shoes.

Weight (without packaging)

	kg	lbs
SCC XS UV	97	214
SCC XS UV Plus	104	230
CMP XS UV	87	192
CMP XS UV Plus	94	207



#### ATTENTION!

Risk of damage to the device!

When transporting device, ensure that air filter box and USB port remain undamaged.



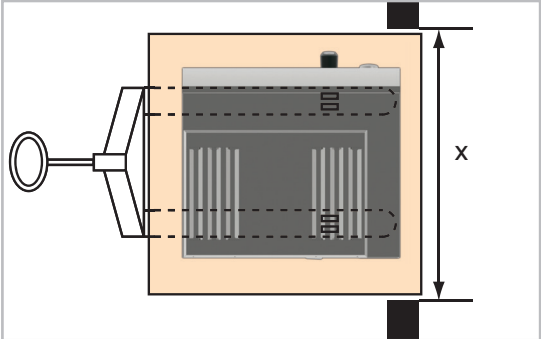
#### ATTENTION!

Risk of damage to the unit!

Do not lift at the front panel of the UV!

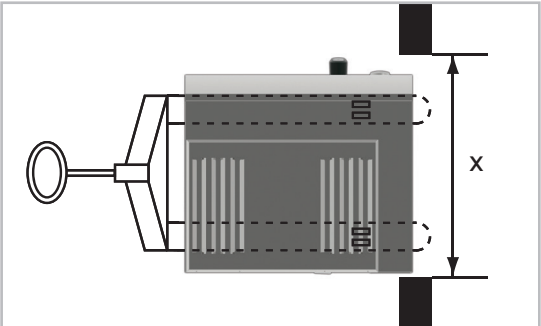
# 4 Device transportation

Transporting unit with pallet:



Note required door width:  
880 mm [34 3/4]

Transporting unit without pallet:



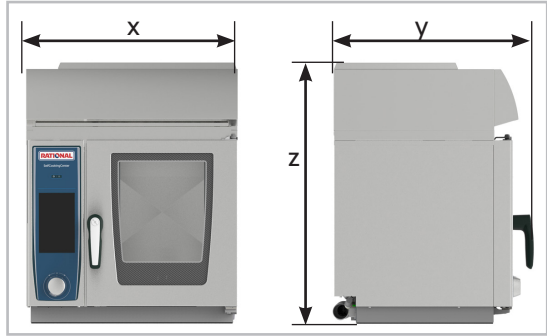
Note required entrance width:  
630 mm [24 3/4]

## 5 Setting up the device

### 5 Setting up the device

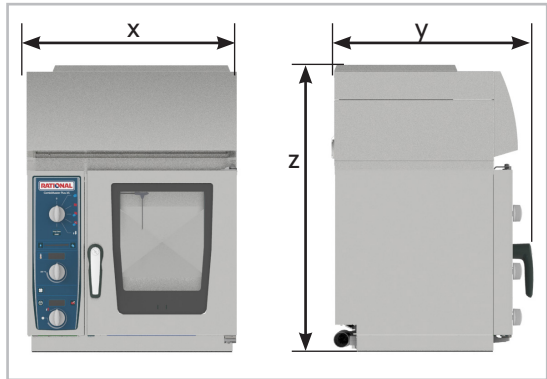
#### 5.1 Device dimensions

with UltraVent XS



	Width x	Depth y	Height z
[mm]	657	623	808
[Inch]	25 7/8	24 1/2	31 3/4

with UltraVent XS Plus



	Width x	Depth y	Height z
[mm]	657	623	897
[Inch]	25 7/8	24 1/2	35 3/8

## 5 Setting up the device

### 5.2 Minimum distances



#### ATTENTION!

Device overheating may cause material damage!

If the ambient temperature to the left of the device becomes too high, it may trigger an emergency shutdown of the device.



#### ATTENTION!

Device overheating may cause material damage!

Do not install fryers onto the back of the device.

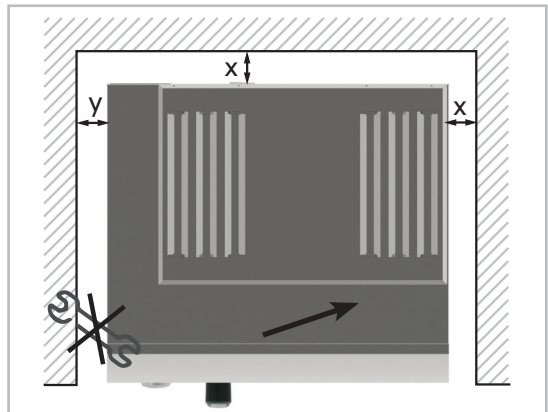


#### ATTENTION!

Frost may cause material damage!

Only install devices in frost-proof rooms.

Minimum distance to walls



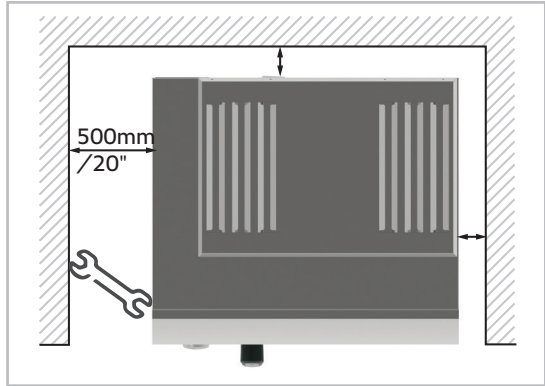
x: 10 mm [1/2]

y: 10 mm [1/2]

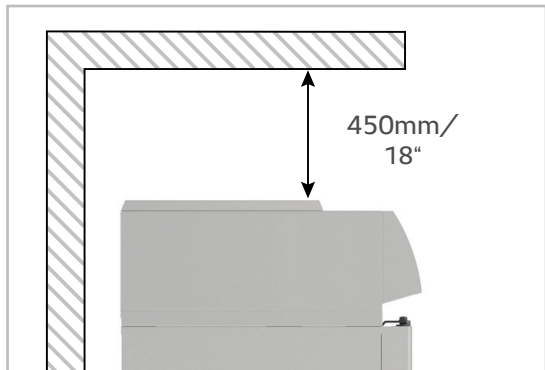
## 5 Setting up the device

### Recommendation

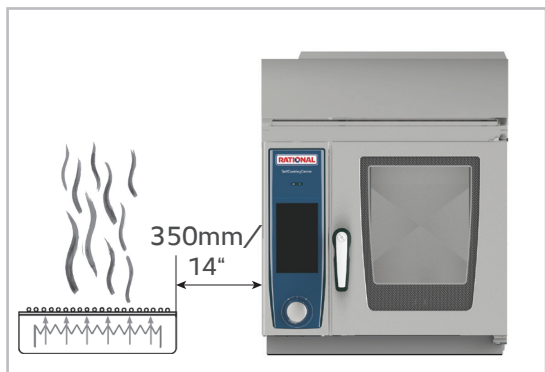
At least 500 mm away from left side of the device so that service work can be performed.



### Minimum distance to ceiling



Minimum distance to other devices Minimum 350 mm distance between left side of the device and heat sources.



## 5 Setting up the device

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Other



### ATTENTION!

Device malfunction!

Avoid vapor sources near the cooling air filter. Moisture intake may result in device malfunctions.

## 5 Setting up the device

### 5.3 Securing the device

For safety reasons, tabletop units should only be placed atop a manufacturer-original oven stand or base unit. Maximum working height for the topmost rack is 1600 mm.

#### Unit size 60

These units do not have height-adjustable feet; instead, they are set up directly on the installation surface.

The installation surface must be level, clean and free of grease. Unevenness across the width of the device must be no greater than 1 mm.

A sealant band is affixed to the underside of the device to seal the installation site. This prevents dirt from getting underneath the device. When moving the device, take care not to damage this seal.

Mounting onto an oven stand:

- > Insert the two included neoprene blind rivet nuts into the holes in the rear part of the underbody.
- > Place the unit onto the oven stand.
- > Secure in place using the screws provided.





## 6 Electrical connection

### 6 Electrical connection



#### DANGER!

Danger to life!

High voltage.

Observe local energy supply company regulations during installation!



#### WARNING!

Danger to life!

Connecting incorrectly may result in electric shock!

Note color coding of wires!

Color coding of wires:

yellow/green = protective conductor,

blue = neutral conductor

brown, gray or black = phase L1, L2, L3



#### ATTENTION!

Improper connection can cause damage to the unit (e.g., fan motor).

#### 6.1 General information

Only connect the device in accordance with the installation instructions and the information on the rating label.

Connect the device to a standard power supply in accordance with the applicable regulations.

Observe VDE regulations and/or local energy supply company regulations!

Connect the device to a Type B (RCD Type B) ground fault circuit interrupter.

## 6 Electrical connection



### CAUTION!

Improper installation can lead to personal injury or property damage!

Customer: provide accessible all-pole disconnect device with at least 3mm contact separation.

Remove the left side panel to access the connection port.

Removing the left side wall

- > Remove the screws on the bottom of the side panel.
- > Pull the side panel down from the device.
- > Remove the side panel.



Each device should have its own protected power supply line.

Use a fixed connection to connect each device to the power supply.

3NAC 400V only

Either a fixed connection or a plug connection may be used to connect the device to the power supply.

The units

are equipped with power cables (without plugs). The cables are around 2.5 m in length.

.Cable connection point

The main fuse is behind the removable left side panel inside the electrical compartment.

## 6 Electrical connection

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### 6.2 Power supply cable



#### ATTENTION!

In order to avoid hazards, the mains power cable may only be replaced by the manufacturer, its customer service representative or similarly qualified personnel.



#### ATTENTION!

Non-functioning device!

Tighten mains lead cleat.

Connect a supply cable of at least Type H07RN-F and tighten the mains lead cleat.

Connect the cable according to the following diagram:

Gray connector terminals:

L1, L2, L3 (independent of rotary field).

Blue connector terminal:

Neutral conductor (neutral wire) (3NAC only).

Yellow-green connector terminals: Protective conductors.

## 6 Electrical connection

### 6.3 Equipotential bonding

A connection site for optional equipotential bonding is located on the bottom or the back of the device.



### 6.4 Connection values

SCC, CM\_P

	Power [kW] / Current consumption [A]	Fuse [A]
3 AC 200V	5,3 / 15,4	16
3 AC 230V	5,70 / 14,5	16
3 NAC 400V	5,7 / 8,5	10
3 NAC 415V	6,2 / 8,7	10
1 NAC 230V	5,3/22,9	25
1 NAC 240V	5,7/24	25
2 AC 230V	5,3/22,9	25
2 AC 240V	5,7 / 24	25

Maximum permissible tolerance for input voltage (see type label for input voltage) is within the range of -15% to + 10%.

## 7 Water connection

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### 7 Water connection

The device complies with all relevant regulations (SVGW, KIWA, WRAS).

#### 7.1 Prerequisites

- > The user must supply each device with its own water tap.
- > Rinse the water supply line before connecting the device to water!
- > Water pressure 1.5 - 6bar, 3bar recommended.
- > Flow rates required for each unit:  
1,8 g/min

Connect the device to drinking water-quality water.

Connect a flexible drinking-water connection hose in accordance with EN 61770 or EN 13618 or of similar quality. Take any necessary safety precautions with the water tap, such as backflow preventers or CA system separators.

The water connection hose must comply with country-specific hygiene standards for drinking water hoses.

Water connection hoses complying with EN 61770 are available through Rational using part number 2067.0709.

The materials used in this connection hose meet KTW, DVGW W270, WRAS and FDA requirements.

Use only new hoses as water connections. Do not re-use old hoses.



#### **ATTENTION!**

Non-functioning device!

Ensure that the minimum water conductivity value of 50 $\mu$ S/cm (Micro Siemens) is maintained.

## 7 Water connection

Unit CMP XS

due to descaling of the steam generator:

- > Drinking water protection for substance class 3 pursuant to EN 1717, such as a CA system separator pursuant to EN 14367, must be installed in the feed line on the tap at the drinking water network connection point.
- > The CA system separator is supplied for NL and CH, and are available through RATIONAL using part number 50.01.820 for other European countries.

Unit SCC XS

meet the requirements for drinking water protection pursuant to EN1717 in as-delivered condition.

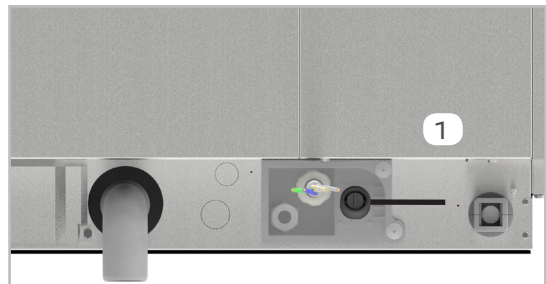
UK only:

WRAS approval IRN R160

To be carried out by the installer:

An approved double check valve or some other no less effective backflow prevention device shall be fitted at the point of connection directly to the water tap.

### 7.2 Device water connection



Water connection legend

1 = 3/4" common water supply line.  
(cold water up to 30°C [86°F])

Note:

The manufacturer recommends preventative inspection be conducted around six months after device commissioning to ascertain the degree of limescale buildup in the steam generator, especially for CMP units.

This inspection should be performed by a trained technician.

## 7 Water connection

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### 7.3 Water treatment

- > The water connection must not use treated water with hardness below 6°e, as such water is aggressive and corrosive, and can shorten the lifespan of the device.
- > Connecting the SCC to water with hardness below 8,75°e:  
When the self-test begins, the system will prompt the user to indicate the hardness of the water the device is connected to. Select "Water hardness below 8,75°e."
- > Observe all country-specific regulations regarding water and sewer connections, especially those regarding installation of water intake points.

In most cases, water connections do not require additional filters or water treatment.

Filtration and/or water treatment (A, B, C, D) may be necessary if water conditions are critical.

Contact the local water supply company to inquire about water chloride levels ( $\text{Cl}^-$ ), chlorine levels ( $\text{Cl}_2$ ) and hardness.

### 7.4 Selecting water filters

#### A) Fine filters

We recommend fine filters with fineness of 5 - 15 $\mu\text{m}$  for filtering water contaminated with sand, iron particles or suspended matter.

#### B) Active carbon filters

If water contains high levels of  $\text{Cl}_2$  (over 0.2mg/l, corresponds to 0.2ppm) (information provided by water supply company), an upstream active carbon filter must be installed.

#### C) Reverse osmosis system

Due to corrosion risks, a reverse osmosis system must be used if and only if chloride ( $\text{Cl}^-$ ) concentrations are above 80mg/l (corresponds to 80ppm, information provided by water supply company).

Note: Ensure that the minimum conductivity value of 50 $\mu\text{S}/\text{cm}$  (Micro Siemens) is being maintained.

## 7 Water connection

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### D) Water softening:

SCC: When used properly, these devices remove lime from water completely independently, so upscale water softening is not necessary.

CMP/CM: Recommended for treating water if severe calcification occurs (without chloride contamination). Systems: Weak acid decarbonization (H<sup>+</sup> ion exchange). Sodium ion exchangers (as are commonly found in dishwashers) are not recommended.  
Phosphate metering is also not recommended due to its negative effects on the water system.

### Important for soft water connections:

Filter size sufficient for:  
7 l/min

Important for filter connections: Water hose with minimum  $\varnothing$  1/2".  
Filter connection  $\varnothing$  3/4".

When using a combination of filters, ensure filter sequence of A-B-C or A-B-D in direction of flow.



## 8 Wastewater connection

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### 8 Wastewater connection

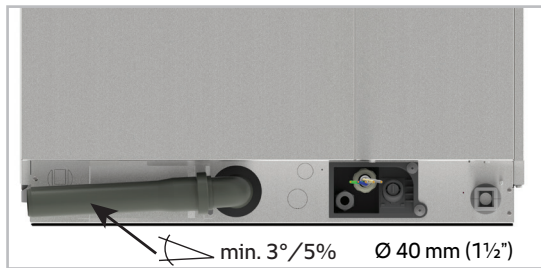
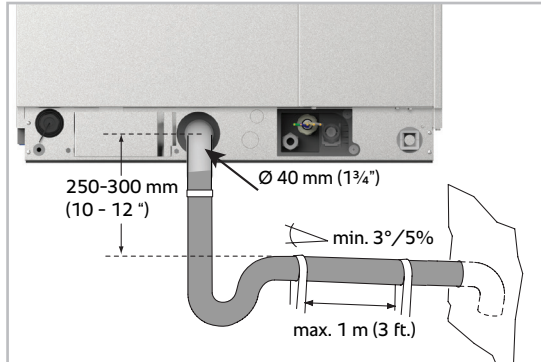


#### ATTENTION!

Use only steam temperature-resistant pipes for wastewater drainage. Do not use hoses.

- > Device complies with all relevant regulations (SVGW, KIWA, WRAS).
- > Connection set for device drain  
DN 40/50 Part number: 8720.1031
- > Welding a drain pipe onto the device drain is not permitted (could result in damage to the device).
- > Use DN 50 pipe (DN 40 for size 60 units) with a constant gradient (at least 5% or 3°); do not reduce pipe diameter.
- > Observe drain dimensioning requirements: steam generator short-term pump-off rate = 0.7l/s
- > Average wastewater temperature: 65°C [149°F]
- > Applicable standard: DIN 1986, T1
- > If floor drain has no odor seal, make sure a 2cm [1" ] free outflow zone is in place.
- > We recommend integrating a siphon into the wastewater connection in order to optimize energy consumption.
- > Unit sizes 60 through 12 may have both a wall drain and a floor drain
- > Each device must have its own wastewater connection (including Combi-Duos).

## 8 Wastewater connection



## 9 Ventilation, technical data, heat dissipation

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### 9 Ventilation, technical data, heat dissipation

- On-site ventilation: When installing an exhaust hood, observe the following:
- > VDI Directive 2052 and local construction authority regulations on exhaust hoods. The exhaust hood should protrude 300-500 mm over the front of the device.
  - > Install the device underneath an exhaust hood if using a VarioSmoker.
  - > Install a grease filter into the protruding part of the exhaust hood.

Technical data                      Noise emissions value: <70dBA  
Water jet protection:              IPX5

Thermal load [kJ/h]:

	SCC	CMP
latent:	1.020	1110
sensible:	1.350	1420

We reserve the right to make technical developments / modifications.

## 10 Initial start-up

### 10 Initial start-up



#### WARNING!

Scalding hazard!

To avoid scalding, when working with liquids or foods that become liquid when heated to higher temperatures, only use containers that are easy to monitor. (DIN: IEC 60335-2-42).

The “Max. rack height for containers with liquid” safety decal is included in the starter kit. After installing the device, attach the decal at a height of 1600 mm (see example)



#### ATTENTION!

Risk of fire!

Remove packaging and transportation materials, starter kit, grids and containers from the cooking chamber.

## 10 Initial start-up

---

### Self test

When first commissioning a new device, start a one-time self-test. This test serves to adjust the device to its specific ambient conditions. It runs automatically, and takes 45 minutes; if an UltraVent is in use, the test will take around 20 minutes longer.

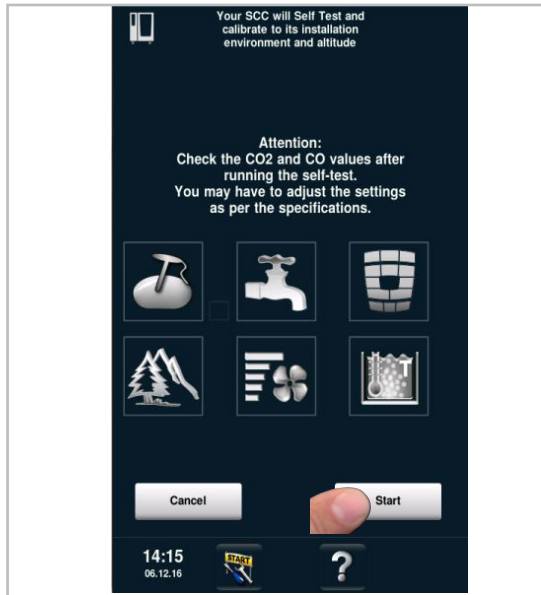
- > To perform the self-test, check the hook ladders and the air baffle to ensure they are seated correctly.
- > The device must be connected to water, wastewater, and electricity as per installation instructions; gas devices must also be connected to gas supply and exhaust lines.
- > The left side panel must be closed.
- > Insert a flat GN container into the middle of the hook ladders, with the opening facing the bottom.



- > Do not open the cooking chamber door during the self-test.

# 10 Initial start-up

SCC




CMP



## 11 Maintenance:

### 11 Maintenance:

Before maintenance:

 **NOTIZ**

Risk of fire!  
Not cleaning the UV can result in the risk of fire.

- > Isolate unit from mains.

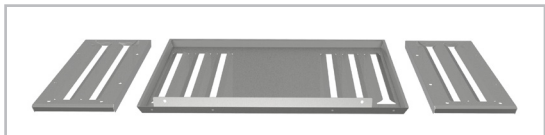
 **WARNING**

Danger of cutting!  
The UV Plus ceiling can be sharp-edged.  
Wearing safety gloves.

- > Remove 2 screws at UV top and remove top cover.



- > Depending on the degree of soiling, unscrew the UV Plus covers and clean them in the dishwasher.



- > Wash inner chamber of UV with hand shower.



- > After cleaning fix the UV top cover back.

# 11 Maintenance:

ONLY UV Plus:

- > Pull out the pre-filter



- > Clean the pre-filter in the dishwasher



Exchange of HEPA filter

The yellow LED indicates when the HEPA filter should be replaced.



- > Isolate unit from mains.
- > Remove the front panel.
- > Loose marked screws, pull out the filter unit.



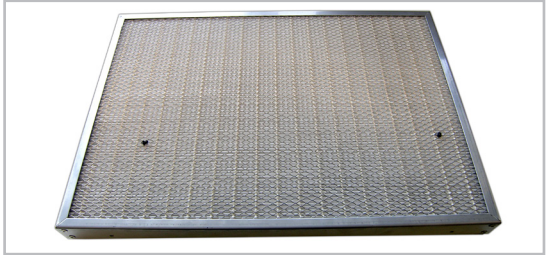


## 11 Maintenance:

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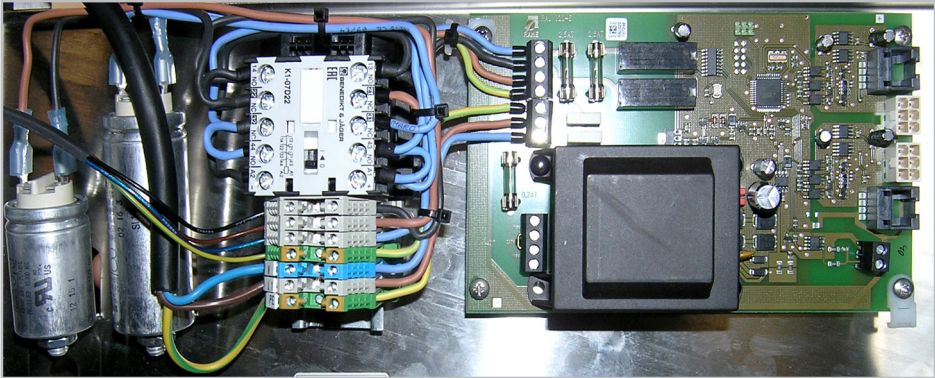
> Change HEPA filter.



## 12 Service parts

### 12 Service parts

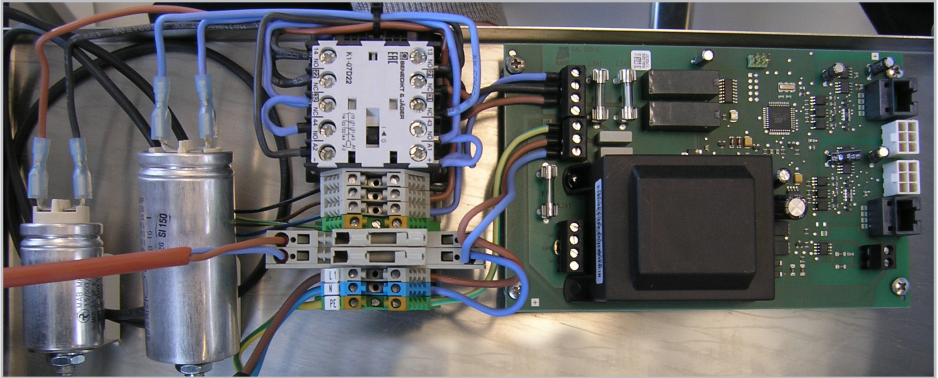
#### 12.1 UltraVent



Art.N.°	Description
42.00.284	PCB UV
40.05.843	Bus cable WA44
40.05.963	Main contactor K1/K2
40.04.151	Capacitor 3,5 $\mu$ F
40.05.413	Capacitor 8 $\mu$ F
60.72.439	Motor UV WA44 (M1) 200-240 V
60.74.459	Mounting frame
60.73.956	Gasket
60.73.957	Cover plate for right hinged units
60.73.958	Cover plate for left hinged units
60.73.960	Front panel

## 12 Service parts

### 12.2 UltraVent Plus



Art.N.°	Description
42.00.284	PCB UV
40.05.843	Bus cable WA44
40.05.963	Main contactor K1/K2
40.04.151	Capacitor 3,5 $\mu$ F
40.04.152	Capacitor 10 $\mu$ F
60.72.439	Motor UV WA44 (M1) 200-240 V
60.74.459	Mounting frame
60.73.956	Gasket
60.73.957	Cover plate for right hinged units
60.73.958	Cover plate for left hinged units
60.74.464	Front panel
60.74.403	HEPA filter
60.74.409	Pre-filter
3017.1014	Differential pressure switch
40.05.972	LED yellow
3019.0117	Fuse 5x20 2,5AT

## 13 Options

### 13 Options

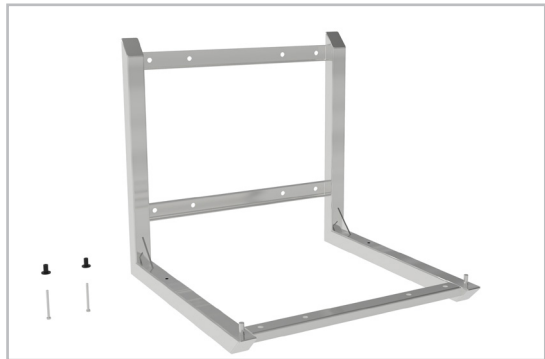
#### Wall mount

The device can be attached to the wall using a wall mount.



#### ATTENTION!

Be sure to follow the corresponding modification instructions when performing wall installations.



Article number: 60.30.968

#### Interfaces

##### SCC

come with an Ethernet interface as part of their standard equipment. An CAT-5 Ethernet cable must be used to connect to a network.

Connection location: on the rear of the unit  
A detailed description on connecting to a network is provided in the user manual.

##### CMP

can optionally be ordered or retrofitted with Ethernet interfaces.

Part number for add-on kit:  
87.01.419

## 14 Conversion tables

### 14 Conversion tables

	°dH	°f	°e	ppm	mmol/l	gr/ gal(US)	mval/kg
1 °dH	1	1.79	1.25	17.9	0.1783	1.044	0.357
1 °f	0.56	1	0.70	10.0	0.1	0.584	0.2
1 °e	0.8	1.43	1	14.32	0.14	0.84	0.286
1 ppm	0.056	0.1	0.07	1	0.01	0.0584	0.02
1 mmol/l	5.6	0.001	0.0007	100	1	0.00058	2
1 gr/gal (US)	0.96	1.71	1.20	17.1	0.171	1	0.342
1 mval/kg	2.8	5.0	3.5	50	0.5	2.922	1

	CaO[mg/l]	CaCO <sub>3</sub> [mg/l]	Ca <sup>2+</sup> [mg/l]
1 °dH (Germany)	10.00	17.86	7.14
1 °f (France)	5.60	10.0	4.00
1 °e (GB)	8.01	14.3	5.72
1 ppm (USA)	0.56	1.0	0.40
1 mmol/l (chem. cons.)	56.00	100.0	39.98
1 gr/gal (USA)	9.60 / 64.8	17.11	6.85
1 mval/kg (milliequivalent)	28.00	50.0	19.99

kPa	mbar	psi	inch/wc
0.1	1	0.0147	0.4014
0.2	2	0.0294	0.8028
0.3	3	0.0441	1.2042
0.4	4	0.0588	1.6056
0.5	5	0.0735	2.0070
0.6	6	0.0882	2.4084
0.7	7	0.1029	2.8098
0.8	8	0.1176	3.2112
0.9	9	0.1323	3.6126
1	10	0.147	4.0140
1.2	12	0.1764	4.8168
1.4	14	0.2058	5.6196
1.6	16	0.2352	6.4224
1.8	18	0.2646	7.2252
2	20	0.294	8.0280

## 14 Conversion tables

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2.5	25	0.3675	10.0350
3	30	0.441	12.0420
3.5	35	0.5145	14.0490
4	40	0.588	16.0560
4.5	45	0.6615	18.0630
5	50	0.735	20.0700
5.5	55	0.8085	22.0770
6	60	0.882	24.0840
6.5	65	0.9555	26.0910
7	70	1.029	28.0980
7.5	75	1.1025	30.1050
8	80	1.176	32.1120
8.5	85	1.2495	34.1190
9	90	1.323	36.1260
9.5	95	1.3965	38.1330
10	100	1.47	40.1400
20	200	2.94	80.2800
30	300	4.41	120.4200
40	400	5.88	160.5600
50	500	7.35	200.7000
100	1000	14.7	401.4000

# 15 Declaration of conformity

## 15 Declaration of conformity

Rational AG  
Iglinger Straße 62  
D-86899 Landsberg  
Germany  
www.rational-ag.com



Product: Commercial CombiSteam Ovens Electric Appliances  
Types: CombiMaster® Plus CMP XS 6 2/3 E, CMP XS 6 2/3 E UV, CMP XS 6 2/3 E UV+  
SelfCookingCenter® SCC XS 6 2/3 E, SCC XS 6 2/3 E UV, SCC XS 6 2/3 E UV+

BG Фирма Рационал потвърждава, че тези продукти съответстват на следващите директиви на ЕС:  
CZ Firma Rational prohlašuje, že výrobky jsou v souladu s následujícími směrniciemi EU:  
D Konformitätserklärung, Rational erklärt, dass diese Produkte mit den folgenden EU-Richtlinien übereinstimmen:  
DK, N Rational erklærer at disse produkter er i overensstemmelse med følgende EU-direktiver:  
E Rational declara que estos productos son conformes con las siguientes Directivas Europeas:  
EE Rationaal deklareer, et antud tooted vastavad järgmistele EU normidele:  
F Rational déclare que ces produits sont en conformité avec les directives de l'Union Européenne suivantes:  
FIN Rationaal vakuuttaa, että nämä tuotteet täyttävät seuraavien EU direktiivien vaatimukset:  
GB Rational declares that these products are in conformity with the following EU directives:  
GR Rationaal δηλώνει ότι τα προϊόντα αυτά συμμορφώνονται προς τις οδηγίες της Ε.Ε.  
H Mi, a Rational kijelentjük, hogy ezen termékek megfelelnek az Európai Unió következő irányelveinek:  
HR Rationaal izjavljuje da su ovi proizvodi sukladni slijedećim smjernicama EU:  
I Rationaal dichiara che questi prodotti sono conformi alle seguenti Directive della Comunità Europea:  
LT Rationaal patvirtina, kad šie produktai atitinka žemiau išvardintas ES normas:  
LV Firma Rational paziņo, ka izstrādājumi atbilst sekojošām ES normām:  
NL Rationaal verklaart, dat deze producten in overeenstemming zijn met de volgende richtlijnen:  
P A Rational declara que estos productos están en conformidad con las siguientes directivas EU:  
PL Firma Rational oświadcza, że dane wyroby są zgodne z niniejszymi wytycznymi UE:  
RO Societatea Rational declară că aceste produse sunt în conformitate cu următoarele directive ale Uniunii Europene:  
RU Фирма Рационал заявляет, что данные изделия отвечают следующим нормам ЕС:  
S Rationaal försäkrar att dessa produkter är i överensstämmelse med följande EU-direktiv:  
SER Rationaal izjavljuje da su ovi proizvodi u saglasnosti sa sledećim smernicama EU:  
SI Rationaal izjavlja, da so ti izdelki v skladu z naslednjimi smernicami EU:  
SK Firma Rational prehlasuje, že výrobky sú v súlade s nasledovnými smernicami EU:  
TR Rationaal bu ürünlerin Avrupa Birliği'ni aşağıdaki Direktiflerine uygunluğuna onaylar:

### Machinery Directive MD 2006/42/EC

- IEC 60335-2-6:2014 (Sixth edition) in conjunction with IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
- IEC 60335-2-42:2002 (Fifth Edition) + A1:2008 in conjunction with IEC 60335-1:2010 (Fifth Edition) incl. Corr. 1:2010 and Corr. 2:2011 + A1:2013
- DIN EN 62233 (VDE 0700-366):2008-11; EN 62233:2008
- DIN EN 62233 Ber.1 (VDE 0700-366 Ber. 1):2009-04; EN 62233 Ber.1:2008
- DIN EN ISO 12100:2011-03; EN ISO 12100:2010

### Electro Magnetic Compatibility EMV 2014/30/EU

- DIN EN 55014-1 (VDE 0875-14-1): 2012-05; EN 55014-1: 2006 + A1: 2009 + A2: 2011
- DIN EN 61000-3-11 (VDE 0838 Teil 11): 2001-04; EN 61000-3-11: 2000
- DIN EN 61000-3-12 (VDE 0838-12): 2012-06;
- DIN EN 55014-2 (VDE 0875-14-2): 2009-06; EN 55014-2: 1997 + A1: 2001 + A2: 2008
- Anforderungen der Kategorie IV / Requirements of category IV


### Restriction of Hazardous Substances RoHS 2011/65/EU

EN 1717: 2011-08 Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow – certified by KIWA.

Bei nicht mit uns abgestimmten Änderungen verliert diese EG-Konformitätserklärung ihre Gültigkeit.  
In case of any not with us attuned modifications, this EG conformity declaration loses its validity.

Landsberg, 01.08.2017

  
i.V. Torsten Brinkmann  
Projektmanagement Key account

  
i.V. Roland Hegmann  
Head of Approval / Compliance

