

MI_2075: Gas hose floor units - dismantling and installation



iCombi Gas 20-1/1;
20-2/1



30 min.



see required tool



11/10/2023

Topics

The information describes the removal and installation of the gas hose for floor units.

Affected product/accessories

iCombi Pro and iCombi Classic Gas:

- 20-1/1
- 20-2/1

Required tool

- Standard
- Torque wrench
- Spanner size 30 with 25 Nm. (Atlas Copco CWR)

Required components

Component:	Item number:
Gas connection 20-1/1G	70.01.609S
Gas connection 20-2/1G	70.01.610S

General information

For the gas components installed in RATIONAL units, the documents of the component manufacturer apply:

NOTICE

The documents of the component manufacturer, as well as the information from RATIONAL, must be read before use.

The documents can be called up by the QR code or the link.



Pict. 4: QR code_en

https://portal.rational-online.com/fs4p/media/service/3_dokumentationen/icombi_pro____icombi_classik/beipack/divers_1/Sicherheitshinweise-Gaskomponenten_en.pdf

NOTICE

Enter the installation of the component on the service level ("Component replacement" tab). This is an integral part of the maintenance history.

Target group

- This document is intended for skilled technicians, who have been certified by the manufacturer after attending training and safety instructions.
- Installation, inspection, maintenance, and repair work must only be carried out by trained technicians.
- It is recommended that only technicians authorised by the manufacturer perform inspection, maintenance and repair work.
- The unit may not be used, cleaned, or maintained by children. The unit may not be used for play. This is prohibited even under supervision.
- The unit may not be used, cleaned, or maintained by people with limited physical, sensory, or mental capacity or those without the necessary experience or knowledge, unless such people are supervised by a person who is responsible for their safety and who has been informed of the hazards of the unit.
- In order to prevent accidents or damage, the manufacturer recommends that technicians attend training and safety instructions.

Safety instructions

DANGER

High voltages when connecting to the mains power

Danger to life due to high voltage.

- Disconnect from the power supply.
- Make sure the unit is disconnected from the power.

CAUTION

Sharp edges on the housing

Risk of cuts on the housing when working in the electrical compartment.
Wear protective gloves.

NOTICE

Do not use leak detection spray when checking gas components for leaks.

The leak detection spray may damage adjacent components.

Revision Log

Changes from previous version of this manual:

- In the chapter "Safety instructions", the note "Do not use leak detection spray when checking gas components for leaks. The leak detection spray may damage adjacent components." has been added.
- In the chapter "Work steps – Installation of the gas hose on floor units", the note "Do not use leak detection spray when checking gas components for leaks. The leak detection spray may damage adjacent components." has been added.

Work steps – dismantling gas hose floor unit

- ✓ The unit is voltage-free and the electrical compartment is open.
1. Note that the position of the gas blowers (steam, upper hot air, lower hot air) are the same for 20-1/1 and 20-2/1, only the cable routing of the gas hoses to the gas valves is different.

> Electrical installation area for iCombi 20-1/1 Gas:



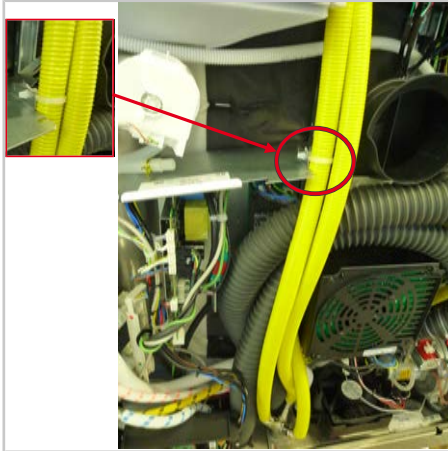
> Electrical installation area for iCombi 20-2/1 Gas:



2. Pull off the hose for fresh air from the gas blower (steam).
3. Remove the hose for fresh air from the gas blower (upper and lower hot air).

Valid for iCombi 20-1/1 Gas:

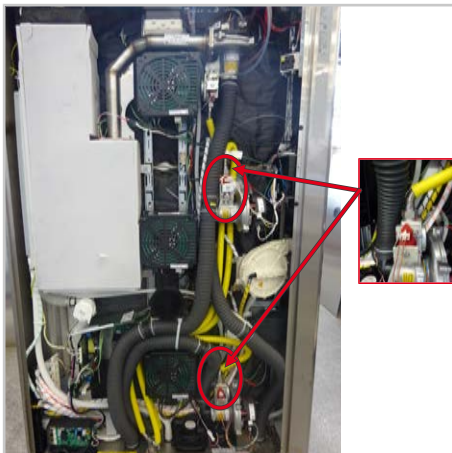
1. Cut the cable tie with the expansion hooks that fixes the two gas hoses to the retaining plate. Remove the cable ties with expansion hooks from the mounting hole.



2. Loosen the gas hose of the gas valve (steam) with a spanner (size 30).



3. Use the spanner (size 30) to loosen the gas hose from the two gas valve connections (hot air) for the iCombi 20-1/1 and 20-2/1.



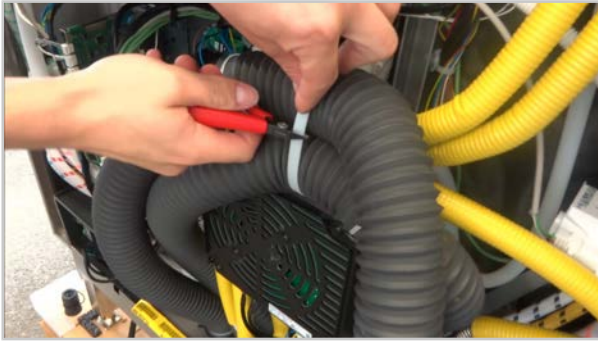
4. Loosen the two screws that secure the gas hose inlet. Remove the whole gas hose.



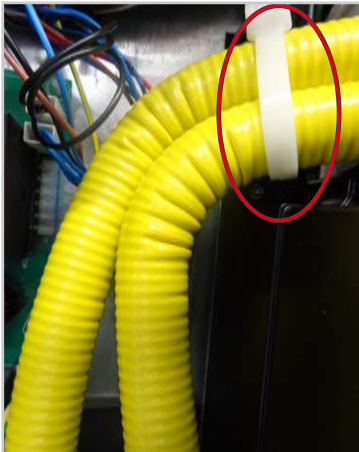
5. Replace the old gas hose with the new one for iCombi 20-1/1 G (Art. no.: 70.01.609S) for iCombi 20-2/1 G (Art. no.: 70.01.610S).

Valid for iCombi 20-2/1 Gas:

1. Remove the cable tie that fixes the air hose in place.



2. Remove the cable ties on the yellow gas hoses behind it.

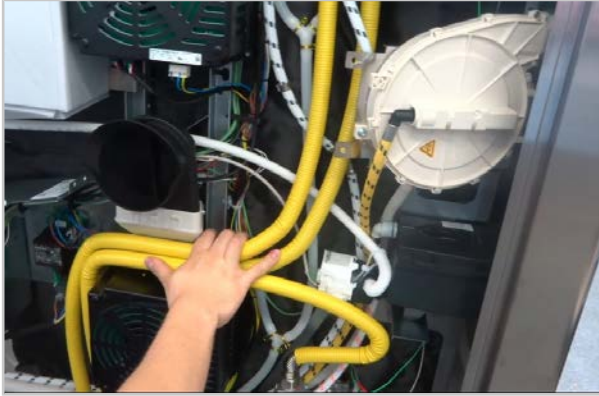


>> The removal is complete.

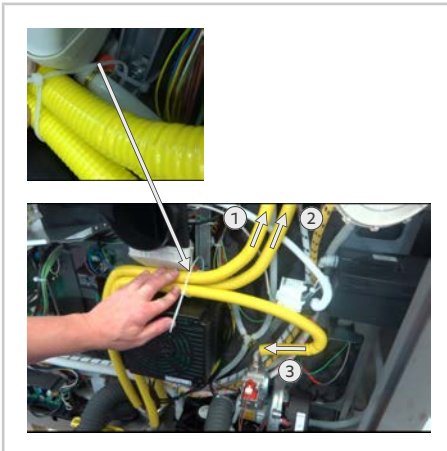
Work steps - installing the gas hose for floor units

1. To install, proceed in reverse order.
2. Insert the gas hose inlet into the square recess in the floor plate. Fix it with two screws.
3. Lay the gas hose for the iCombi 20-2/1 G according to the following guidelines:
 - > To do this, first place the 2 hoses that lead to the gas valves (steam and upper hot air) upwards. Bend these hoses according to the contour and corners of the electrical components in the unit, so that the hoses are properly laid and no electrical components are crossed.

- > Lay the gas hose on the gas valve (lower hot air) and bend the gas hose accordingly, so that it receives the desired contour around the fan motor and does not cross it.

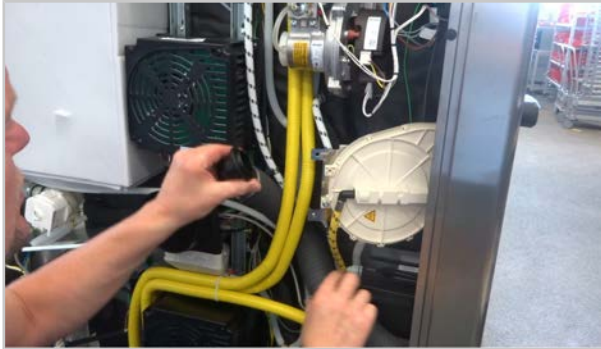


- > Arrange the gas hoses as shown in the following image and use a cable tie to fix the bundle of gas hoses. As shown in the image, the cable tie must be threaded through the loop of the existing cable tie on the metal strut. Also make sure that the tongue closure is positioned as shown in the image, to prevent any injuries or cuts on the gas hoses. Then pull the cable tie closed. Cut off the protruding tongue piece as close as possible to the tongue closure.



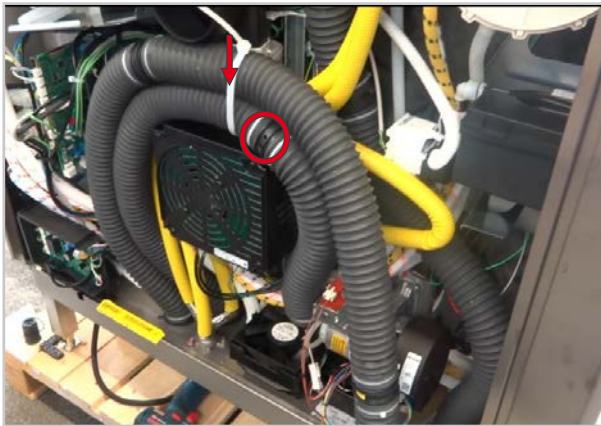
1	To the gas valve (steam)
2	To the gas valve (upper hot air)
3	To the gas valve (lower hot air)

- > Thread the air hose for the gas blower (upper hot air) in such a way that it lies under the two gas hoses.



- > Arrange the two remaining air hoses as follows and also fix them with a cable tie (marked with an arrow here) to the cable tie loop, which is located on the metal strut.

Important: Be careful to keep the two marked holes on the hose clear (circled here).



4. Lay the gas hose for the iCombi 20-1/1 G according to the following guidelines:

- > Lay the short gas hose around the lower fan motor to the gas valve (lower hot air).



- > Connect the air hose for the gas blower (upper hot air). Arrange the other two air hoses as follows and also connect them to the gas blowers (steam and lower hot air).

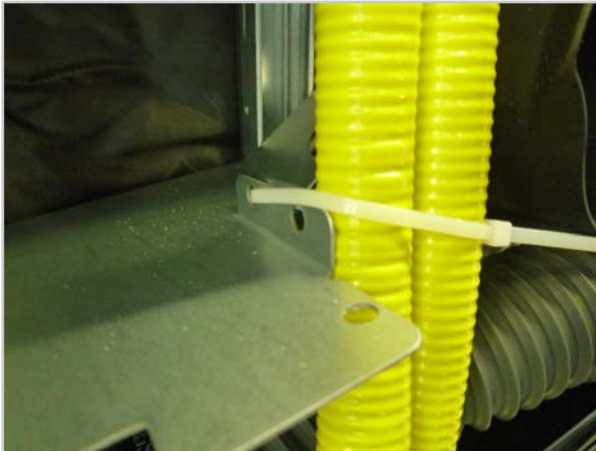
Important: Be careful to keep the two marked holes on the hose clear (circled here):



- > Place the two long gas hoses (steam, upper hot air) facing upwards.



- > Fasten the two gas hoses leading upwards to the gas valves (steam, upper hot air) with a cable tie on the retaining plate.



- > Connect both gas hoses (valid for iCombi 20-1/1 and node:2341871932914590831015 20-2/1) to the gas valves (steam and upper hot air). Ensure proper routing, so that the moistening nozzle is not pushed aside and the gas hose running to the gas valve (upper hot air) does not rest on the gas burner.



- > For unit sizes 20-1/1 and 20-2/1, the open-end wrench (size 20) and the torque wrench size 30 with 25 Nm are needed to connect the gas hoses to the gas valves (hot air and steam).

Important: Only use the open-end wrench on the nuts and not on the hose.



5. After the retrofitting, carry out a leak test and flue gas analysis.
Note: Do not use leak detection spray when checking gas components for leaks. The leak detection spray may damage adjacent components.
 6. After the coupling connections have been resealed, the side panel can be reinstalled.
- >> **The installation is complete.**

