

MI_2143: Removal and installation of fan motor



see affected units



45 minutes



Standard



31.10.2024

Reason:

The information describes the removal and installation of the fan motor.

Affected units (unit size and unit type):

iCombi Electric and Gas

- 6-1/1
- 6-2/1
- 10-1/1
- 10-2/1
- 20-1/1
- 20-2/1

Required tool

- Standard

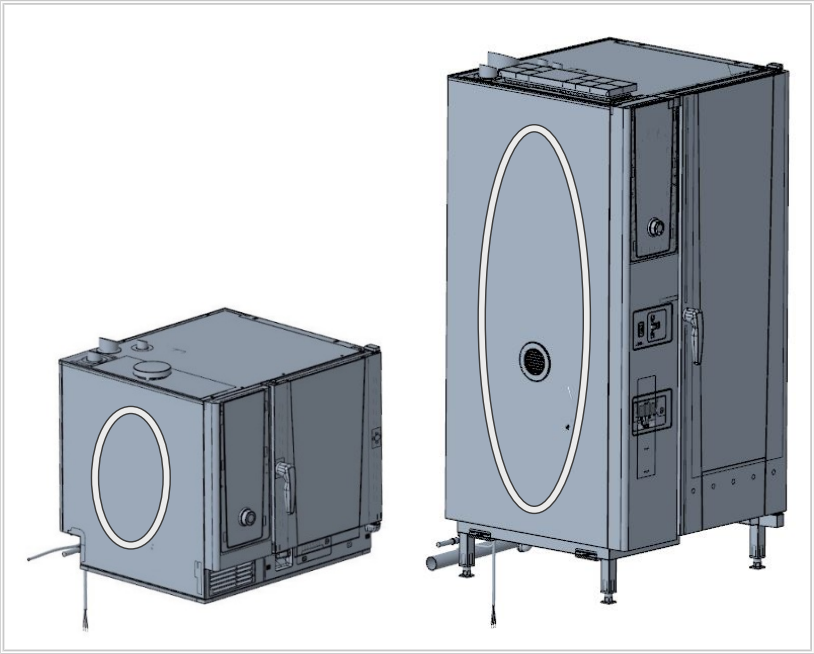
Affected components

There are different article numbers for the fan motor. These are listed in the following list.

Component	Article number
Fan motor complete	87.01.558S
Fan motor complete	87.01.560S
Fan motor complete	87.01.559S
Fan motor complete	87.01.587S
Fan motor complete	87.01.588S
Control electronics for fan motor	42.00.276P
Control electronics for fan motor	42.00.277P
Control electronics for fan motor	42.00.278P
Control electronics for fan motor	42.00.279P
Control electronics for fan motor	42.00.290P

The following accessory kit is always completely included in the fan motor article number.

Component	Article number
Accessory kit fan motor (Motor shaft seal, graphite gasket, mounting gauge, insulation motor retaining plate)	87.01.832S



General information

NOTICE

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

These instructions apply to all article numbers listed under "Required components".

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 unit.
Wear protective gloves.

⚠ WARNING**Hearing damage from loud bang when removing the fan wheel**

If you remove the fan wheel using the puller, there is a risk of hearing injury from a loud bang.

- Wear hearing protection.

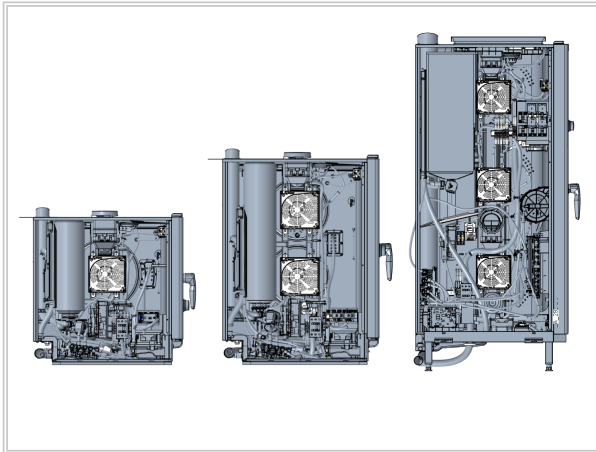
Revision Log

Changes from previous version of this manual:

- Point 4 has been revised in the chapter "Work steps - installing the fan motor".

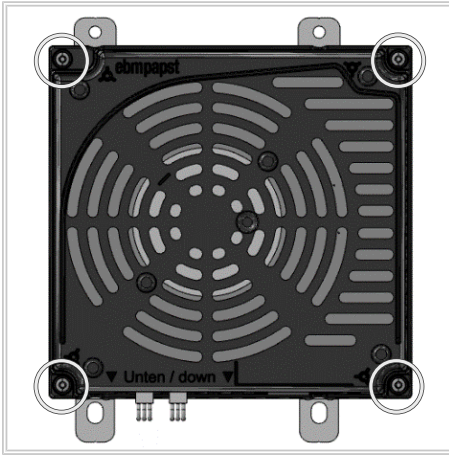
Work steps - removing the electronic unit

- ✓ The unit is voltage-free and the electrical compartment is open.



1. Unplug all supply lines from the electronic unit of the fan motor.

2. Remove the 4 screws from the electronic unit.



3. Pull the electronic unit of the fan motor off the contact pins. It is possible that the electronic unit is difficult to remove.

>> **The removal is complete.**

Work steps – installing the electronic unit

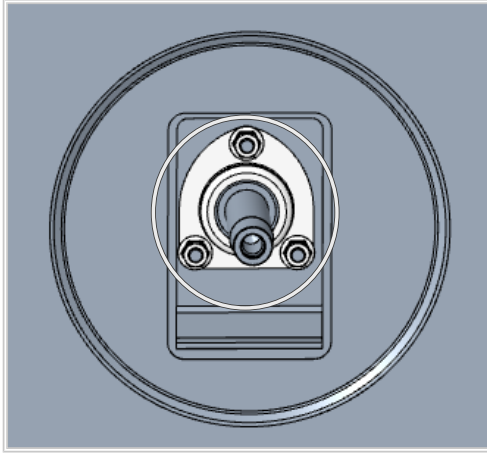
1. To install, proceed in reverse order.
2. Before the unit is ready for use, the motor positioning must be completed. (See instructions for motor positioning iCP/iCC).

>> **Installation is complete.**

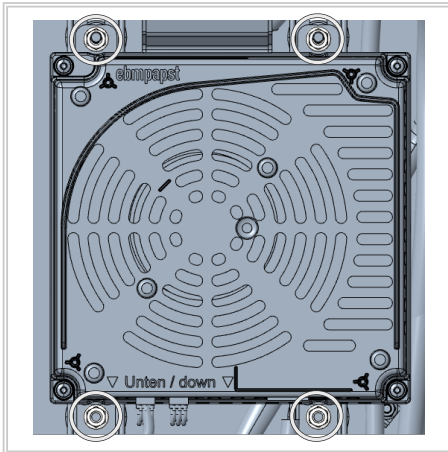
Work steps - removing the fan motor

- ✓ The unit is voltage-free and the electrical compartment is open.
1. Remove the fastening screw on the fan wheel. To prevent the fan wheel from turning, hold the outer ring.
 2. Screw the puller screw into the thread in the middle of the fan wheel.
 3. Put the puller on and tighten it until the fan wheel detaches from the shaft.
WARNING! Use hearing protection.
 4. Remove the puller, the puller screw and the fan wheel.

5. Remove the 3 nuts and take out the flange and the motor shaft gasket. Use the mounting shaft supplied.



6. Remove the 4 nuts on the fan motor in the electronic compartment.

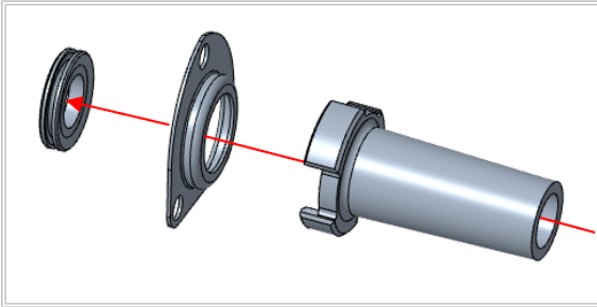


7. Remove the fan motor from the electronic compartment
 8. Take out the retaining plate and remove the graphite gasket.
- >> **The removal is complete.**

Work steps – installing the fan motor

- ✓ **The unit is voltage-free and the electrical compartment is open.**
- 1. Proceed in reverse order to install.

2. Use the mounting gauge supplied.



3. The tightening torque of the fastening screw on the fan wheel is 38 Nm.
4. Motor positioning and calibration must be completed before the unit is ready for use.
Service level in the "Hot air" launcher - "Motor positioning" tab, press "Assign new motor positioning"
Check motor positioning

>> Installation is complete.

