
MI_2134: Unit connection to UPS 3NAC400V 3AC200V_Modification_iCombi Pro



See affected devices



45 min.



Standard

23 July 2024

Topic

Unstable power supply can lead to the destruction of components (e.g. CPU board fan motor, boards). For this reason, we recommend that a voltage stabilizer be connected upstream in the event of an unstable grid or an uninterruptible power supply (UPS) in the event of additional short-term grid failures.

With this modification, the fan motor(s) and boards are supplied with power separately.

Affected product/accessories

iCombi Pro Electric

- 6-2/3
- 6-1/1
- 6-2/1
- 10-1/1
- 10-2/1
- 20-1/1
- 20-2/1

Required tool

- Standard

Required components

- Kit numbers (where available) for this manual are as follows:
 - 40.07.086S 3NAC400V 6 1/1
 - 40.07.087S 3NAC400V 10 1/1
 - 40.07.088S 3NAC400V 20 1/1
 - 40.07.089S 3NAC400V 6 2/1
 - 40.07.090S 3NAC400V 10 2/1
 - 40.07.091S 3NAC400V 20 2/1
 - 40.06.934S 3NAC400V 6 2/3
 - 40.07.553S 3AC200V 6 1/1
 - 40.07.554S 3AC200V 10 1/1
 - 40.07.555S 3AC200V 20 1/1
 - 40.07.556S 3AC200V 6 2/1
 - 40.07.557S 3AC200V 10 2/1
 - 40.07.558S 3AC200V 20 2/1
 - 40.07.562S 3AC200V 6 2/3

- The uninterruptible power supply (UPS) must be ordered separately, as these are not included in the conversion kits.
Use an UPS that provides at least the following power and fuse:

Unit size	Power	Fuse
6-2/3	1KW	10A
6 1/1	1KW	16A
10 1/1	1KW	16A
60 2/1	1KW	16A
10 2/1	1.5KW	16A
20 1/1	1.5KW	16A
20 2/1	2KW	16A

- In addition, the output voltage of the UPS must be as follows:
 - Unit voltage 3NAC400/415V 1NAC230/240V
 - Output unit voltage 3AC200/220/230/240V (identical to the voltage on the type plate).

Components included in delivery:

Each kit contains the following components.

Component	Article number
Cable ties (6x)	4005.0101
UPS connection cable (1x)	---

General information

- With this modification, the fan motor(s) and boards are supplied with power separately.
- Several motors can be connected to the UPS. The instructions describe the conversion for a motor.

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.

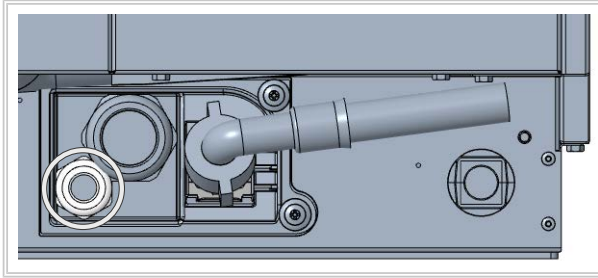
Revision Log

Changes from previous version of this manual:

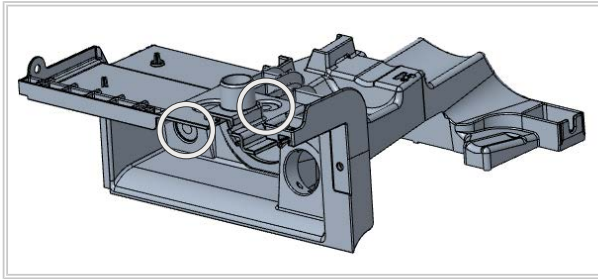
- Additional notes have been added to the item numbers in the chapter “Re-quired components”.

Work steps – Installation of connection cable

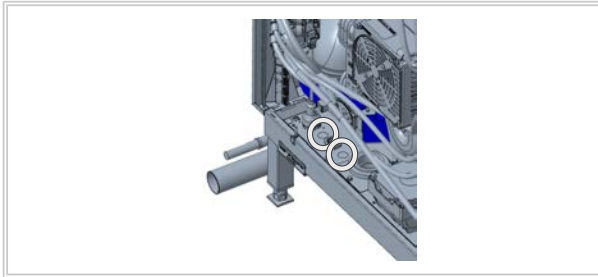
- ✓ The unit is voltage-free and the electrical compartment is open.
- ✓ The UPS is located outside the unit.
- 1. Create an opening for the connection cable.
The following opening options are available:



Pict. 1: Cable opening xs



Pict. 2: Cable opening for tabletop units



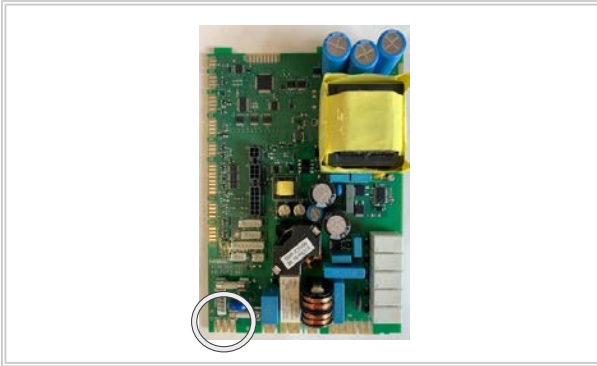
Pict. 3: Cable opening for floor unit

2. Loosen the cable gland from the connection cable.
3. Screw the cable gland to the opening provided.
4. Pull the connection cable through the cable gland from the inside to the outside and tighten.
5. Attach the sticker to the connection cable.
6. Remove the power supply from the fan motor and securely tie the cable into the wiring harness. The number of plugs varies depending on the unit size.

7. Install the motor plug of the UPS connection cable on the fan motor.



8. Remove the plug (X21) from the I/O board and securely tie the cable into the wiring harness.
9. Install the UPS connection cable on the I/O board (X21).



10. Install the UPS connection cable with the UPS (uninterruptible power supply). The UPS is located outside the unit.
 11. Connect the unit to the mains and perform a test run.
 12. Attach the voltage-specific stickers to the left side panel.
 13. Perform appropriate electrical tests in accordance with local regulations.
- >> The modification is complete and the unit is ready for use again.

