

Automation upgrade

Plaza / Piccolo ON eco EDA -> eWind

NOTE!

Fan rotation guards must be disabled in the new eWind settings.

Warning!

According to regulations, an ordinary electricity consumer is only allowed to perform some minor service tasks.

**According to Finnish regulations,
a list of the allowed tasks can be found at the Tukes home page (www.tukes.fi).**

Always make sure that the power supply is turned off before opening the service door.

Wait two minutes before beginning the maintenance work. The fans rotate for some time by themselves, and the heating element may be hot even if the power supply of the ventilation unit is switched off. Electrical housing may be opened only by a trained electrician.

Electrical installations must comply with local regulations.

**Continuously check and compare the electrical diagrams at the end
of this instruction as the upgrade progresses!**

Always make sure that the power supply is turned off before opening the service door.

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Disconnect **the power supply (1)**.



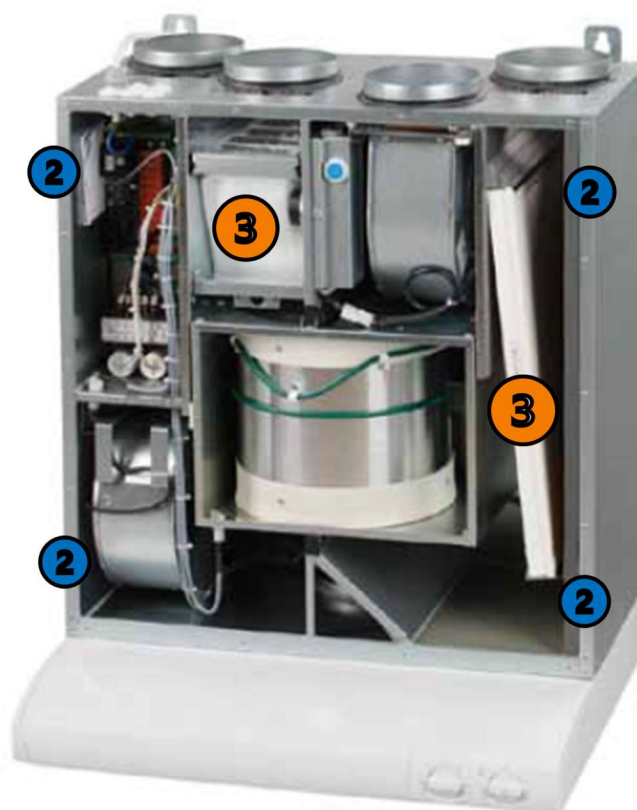
1



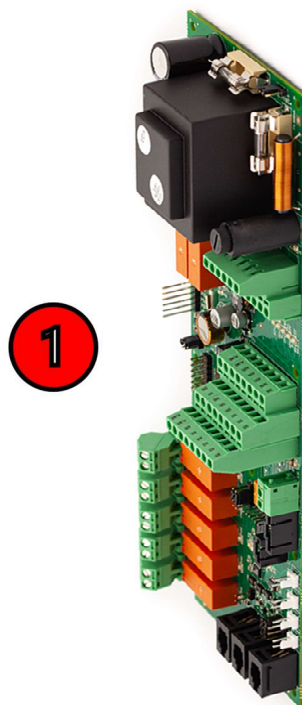
Open the service door by releasing **four screws (2)**.

NOTE! Ensure that no voltage is occurring in the unit before proceeding!

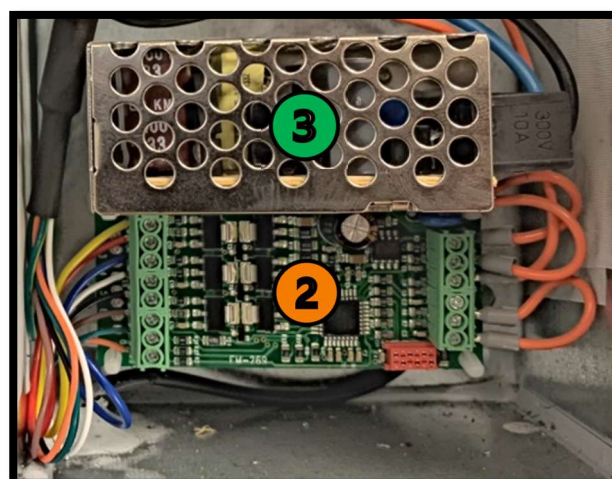
Remove **the filters (3)** by pulling.



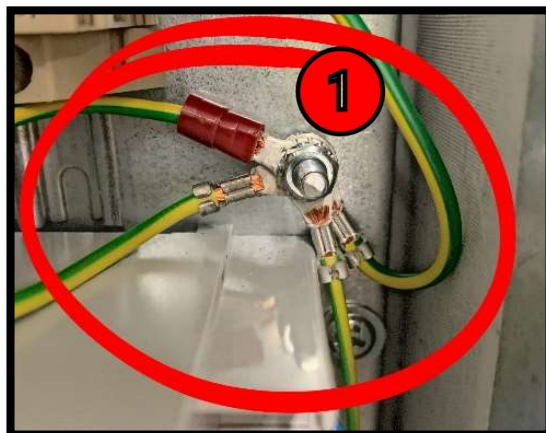
Mark all wires/sensors according to the marking on the main board and disconnect them from **the EDA main board (1)**.



Disconnect the wires from **the HRW circuit board (2)** and **the transformer (3)**.

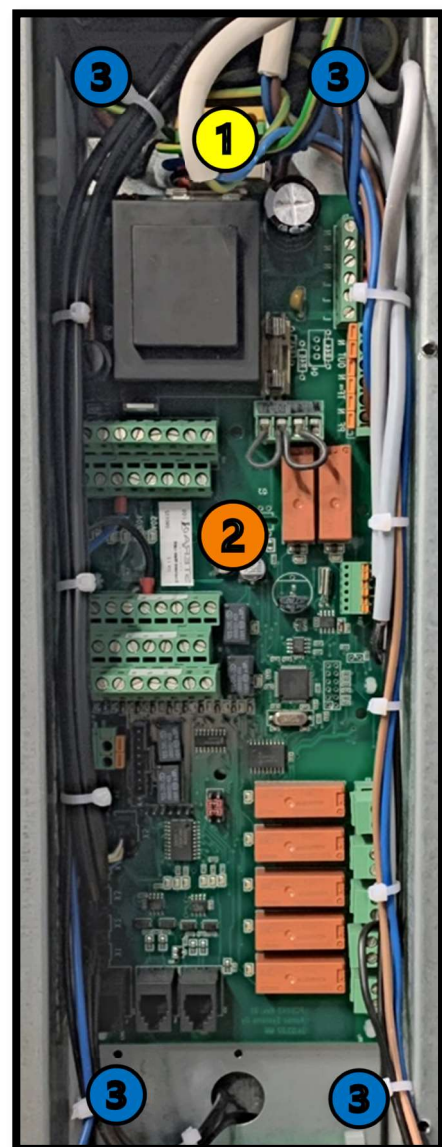


Disconnect **all ground wires (1)** from the automation base ground point.



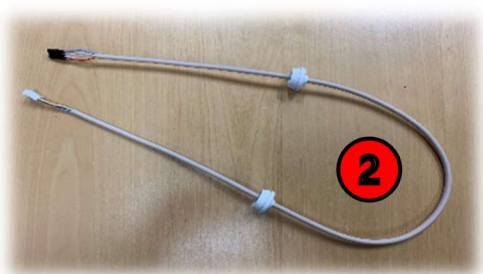
Disconnect the main switch wires from **the terminals (1)**.

Remove **the screws (3)** and remove the automation base incl. **terminals (1)** and **EDA main board (2)**.



If the unit has an electrical after heater installed; release the after heater by removing the screws and by pulling, along with the cables connected to **the after heater (1)**.

Remove the old triac control cable and install **the new triac control cable (2)** (40030313).
Ignore if no electrical after heater installed.



Remove **the extract air sensor cable (3)**.

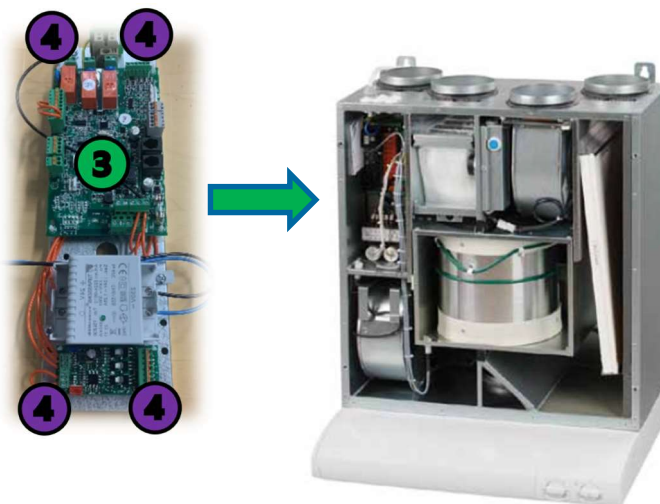


Install **the new extract air sensor (4)** (40029224) and attach it with cable ties (40030997) on top of the old sensor.
Install the extract air sensor cable into **the electrical box (5)**.



Install **the new automation (3)** in the electrical box. Make sure no installed cable / sensor get stuck behind the automation base and that they are available in front of the main board.

Attach the automation base (40029602) to the electrical box with **four self tapping screws (4)** (40031530).

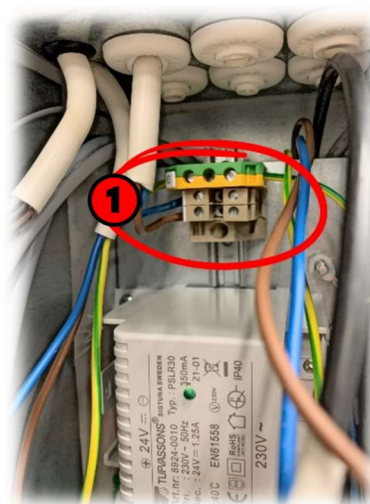


Connect **the main power cable to the terminals (1)**.

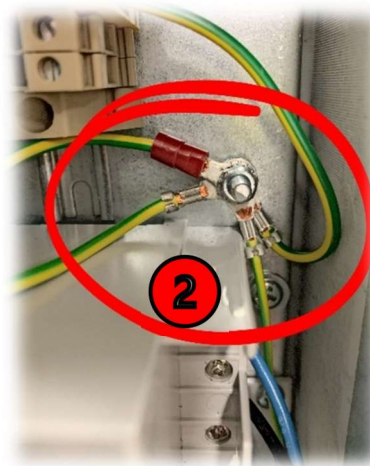
L: Brown

GND: Green/yellow

N: Blue



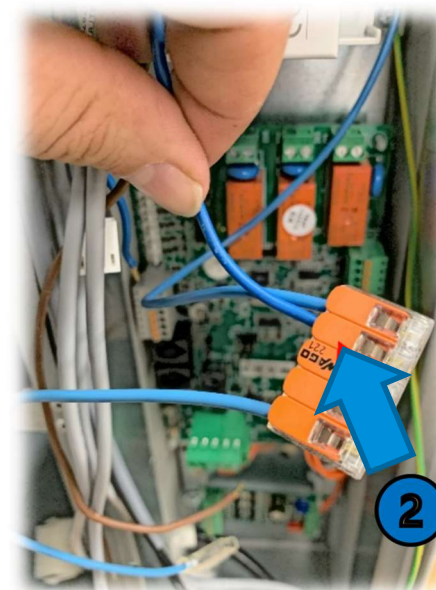
Connect **all ground wires** to **the automation base ground point (2)**. Tighten with **the nut** (40031489).



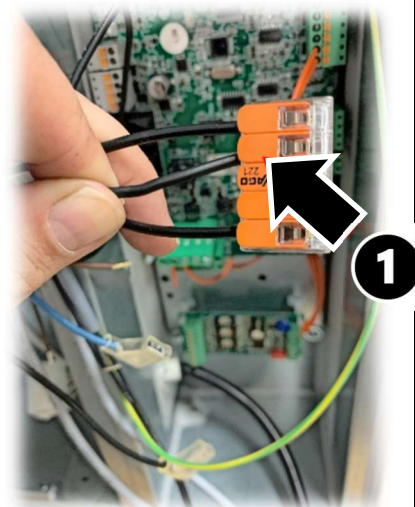
Install **the connection terminals (1)** (40029982).
One for "L" and one for "N".



Connect **the blue wire** from the electrical after heater
to **the blue connection terminal (2)** (40029982).
Ignore if no electrical after heater installed.



Connect **the black wire** (40028774)
to **the black connection terminal (1)** (40029982).



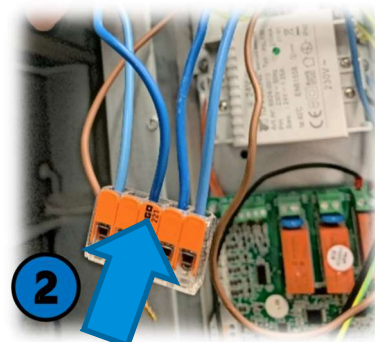
Connect **the same black wire** (40028774)
to **"DO2" (2)** on the main board.



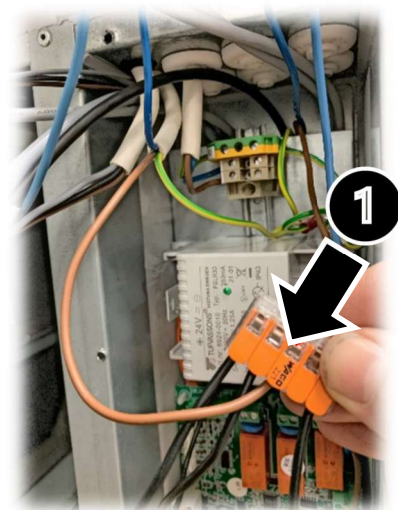
Connect **the brown wire** from the electrical after heater to **"DO2" (2)**.
*If there is a water coil after heater installed,
the circulation pump power wire (L) would be connected here.*



Connect **the blue wires / or the wires marked "2"** from the fan power cables to **the blue "2" connection terminal (2)** (40029982).



Connect **the brown wires / or the wires marked "1"** from the fan power cables to **the black connection terminal (1)** (40029982).

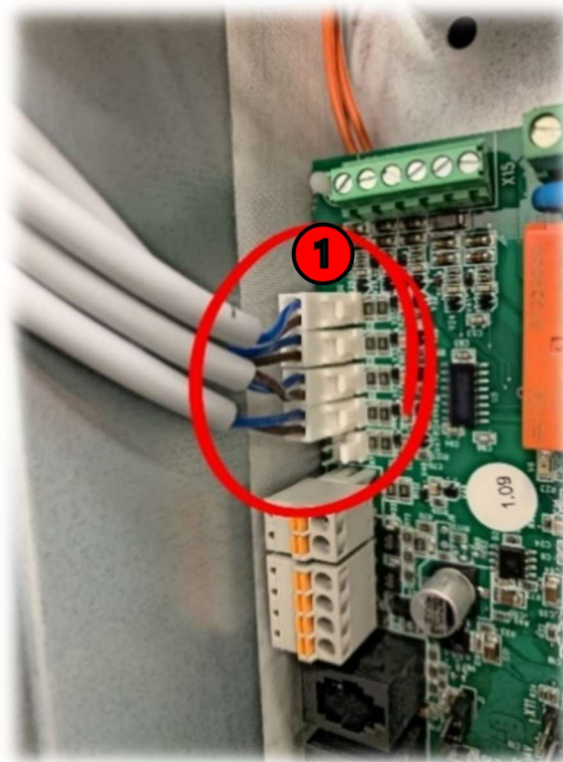


Connect **the extract air sensor (3)** (40029224) to the main board (X29).



Connect **the sensors (1)** to the main board according to the markings.

TE01: Outside air
TE05: HRW supply air
TE10: Supply air
TE32: Waste air

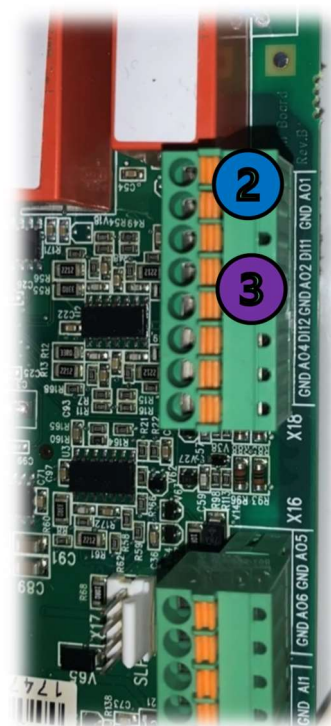


Connect **the wires from the supply air fan control cable (2)** to the main board.

AO1: 1
GND: 2

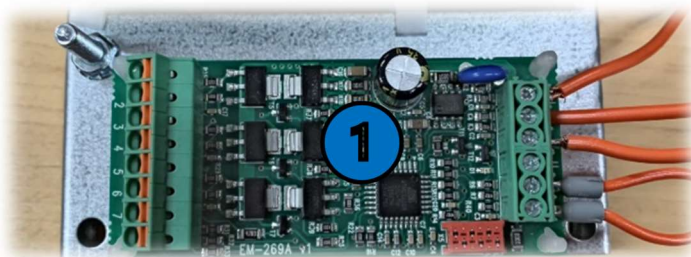
Connect **the wires from the extract air fan control cable (3)** to the main board.

AO2: 1
GND: 2



Install **the old DC HRW circuit board (1)** to the new automation base, and connect it to the main board according to the electrical diagram (**page 20**).

The old transformer won't be used anymore!



Connect **the wires from the HRW cable to the HRW control board (2)**.

1: Yellow

2: Red

3: Blue

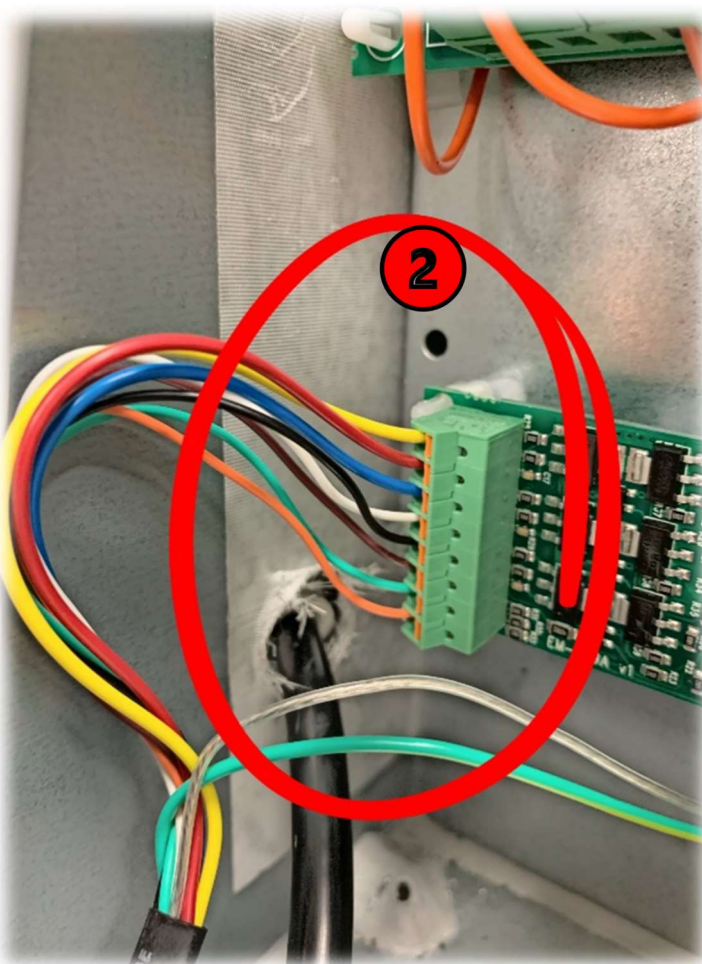
4: White

5: Black

6: Brown

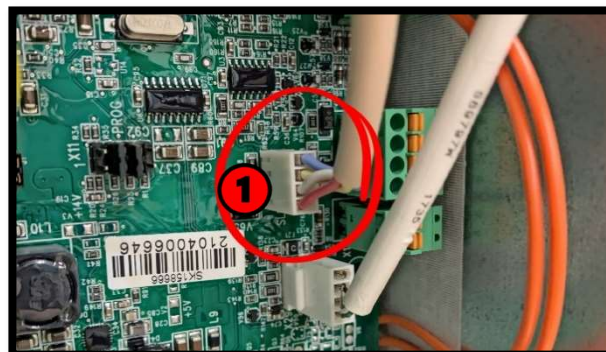
7: Green

8: Orange



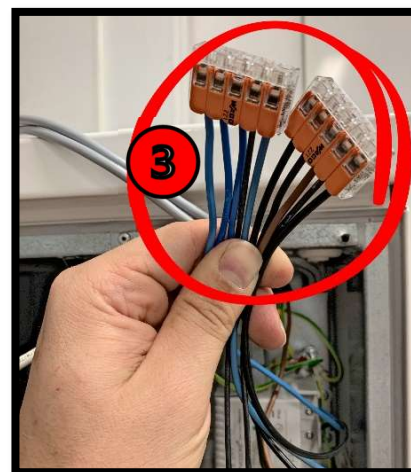
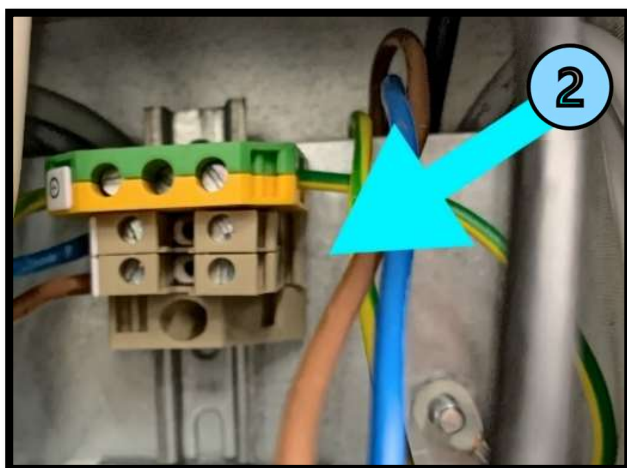
Connect **the after heater control cable (1)** to the main board (X17).
Ignore if the unit has a water coil after heater installed.

Connect other components (for example actuator for cooling coil or water coil after heater) according to the electrical diagrams (pages 19-22).



Connect the wires (40028774 & 40028779) to **the terminals (2)** and to the **black & blue connection terminals (3)** (40029982).

Attach all cables and wires together with cable ties (40030997).



Install **the filters (1)**.

Connect **the display cable (2)**
to the main board.



Disconnect and remove the old display.
Install **the new display (3)** (40031115).



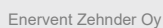
Perform insulation and ground continuity test according to regulations.

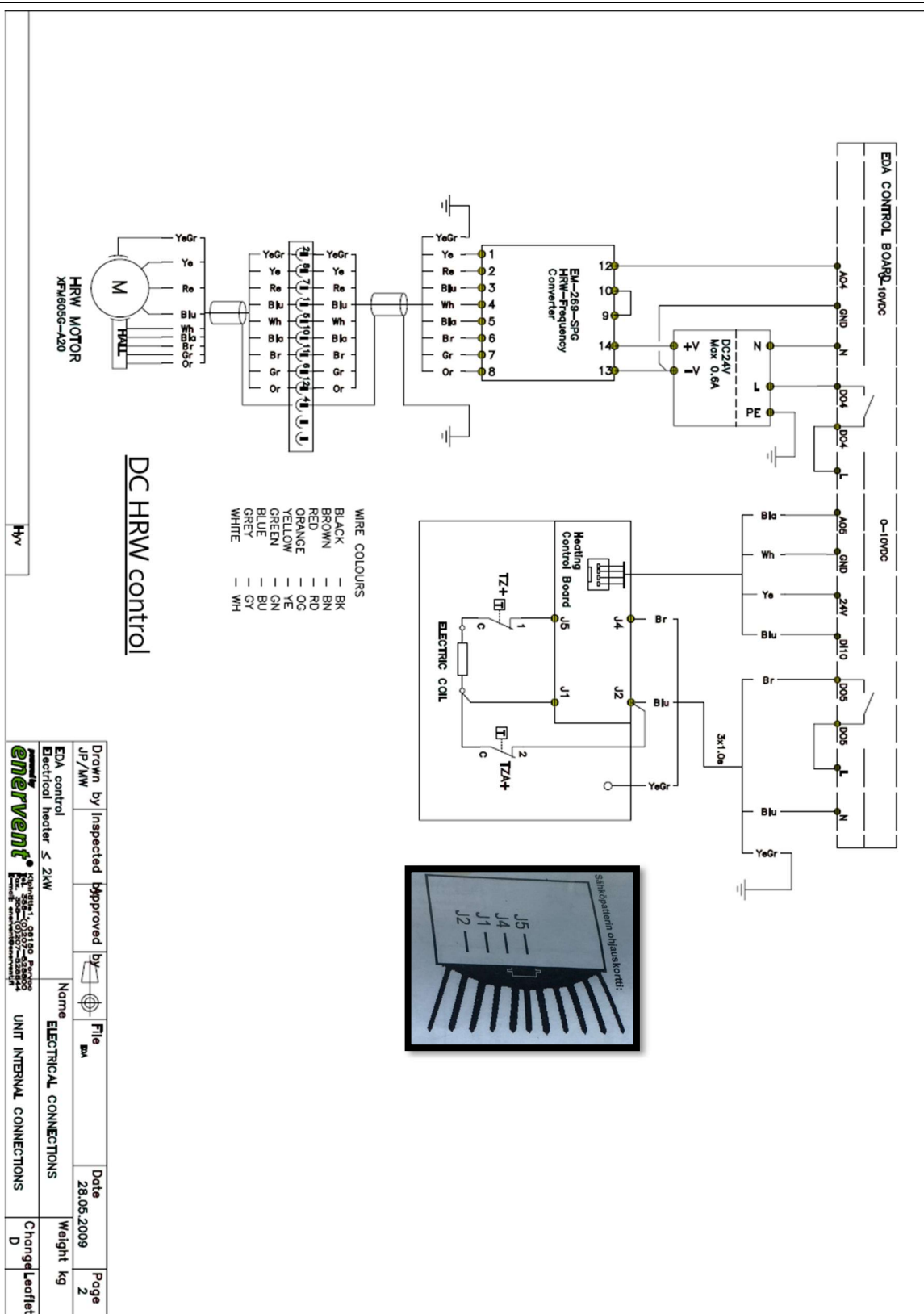


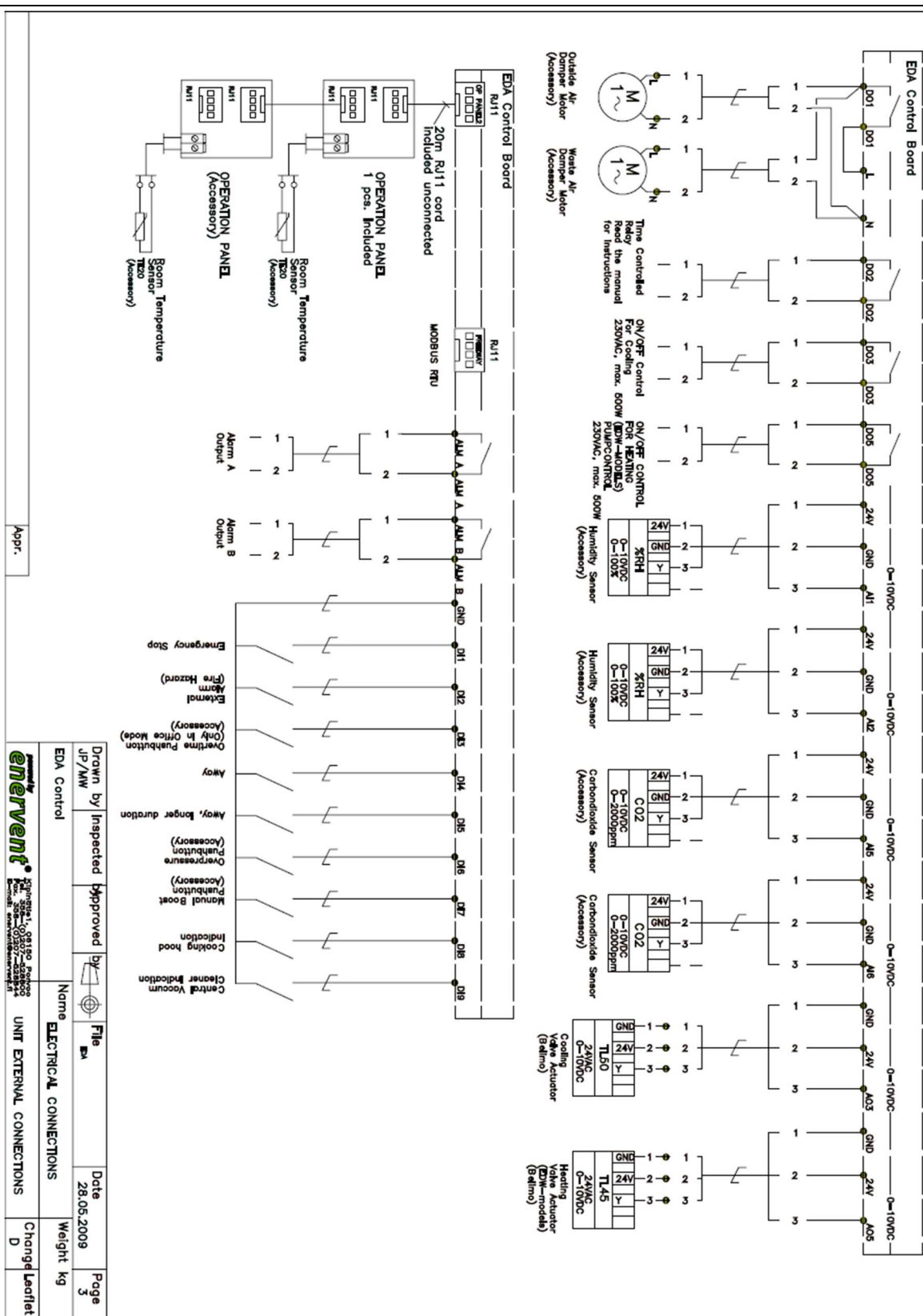
Attach the service door to the unit with **four screws (1)**.

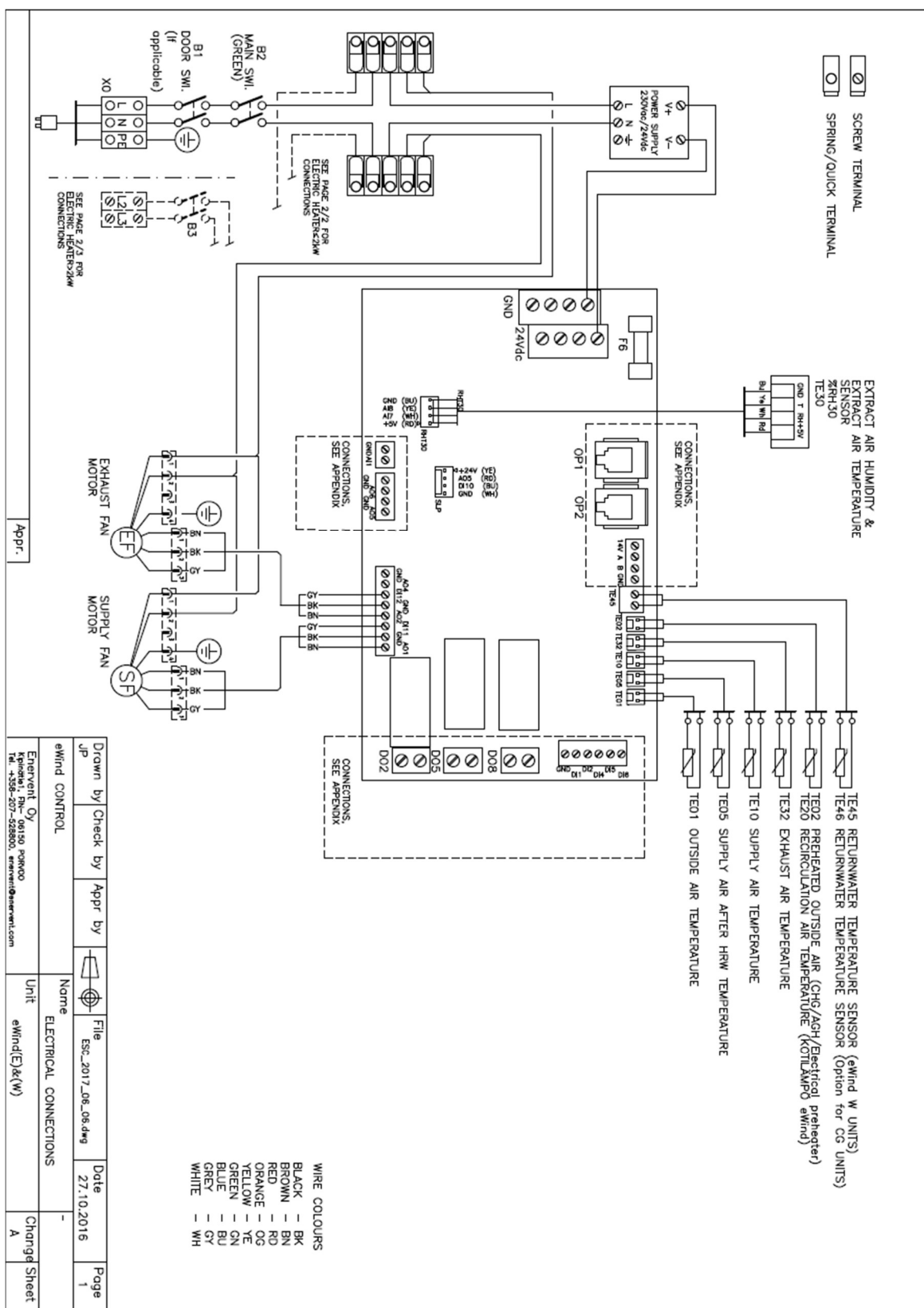
Install **the new type plate sticker (2)** to the service door.

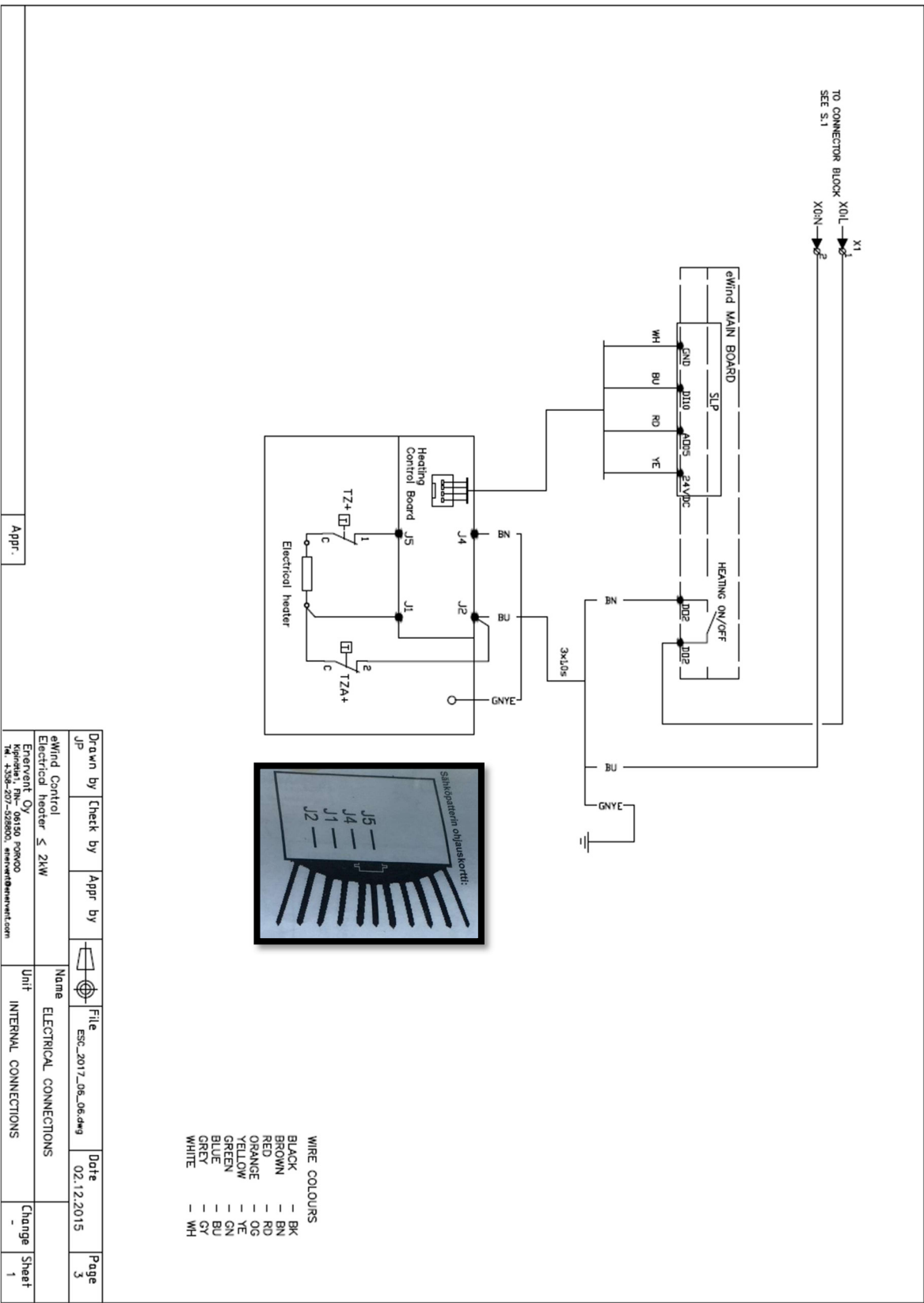


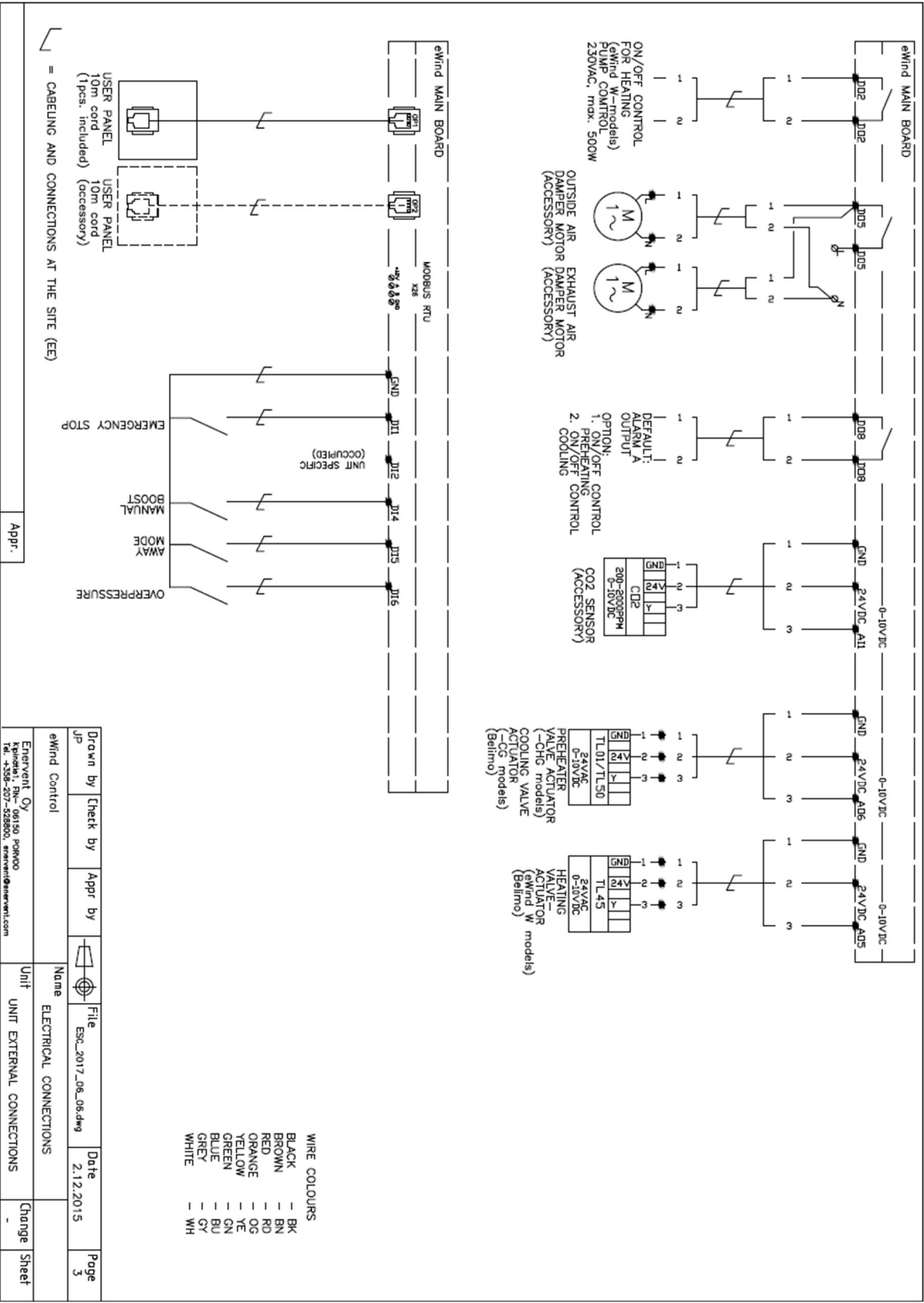












MANDATORY PARTS

10025907 CONTROL UPDATE KIT PLAZA/PICCOLO ON ECO EDE → EWIND E 1

Code	Description	Pcs.
10025907	CONTROL UPDATE KIT PLAZA/PICCOLO ON ECO EDE → EWIND E	

Automation

40030936	PCB support KGLS-6S	4
40030937	PCB support LCBSM-6-01	4
40031695	Screw DIN 7981 ZN 3,9x9,5	4
40031631	Screw DIN 7985 ZN M4x20	1
40031537	Washer 6798-A ZN M4x8	3
40031489	Nut DIN 934/8 ZN M4	1
40028772	Wire 65mm orange 0,75mm2	1
40028773	Wire 340mm orange 0,75mm2	5
40028774	Wire 255mm 1mm2 black	1
40028779	Wire 255mm 1mm2 blue	1
40031094	eWind main board	1
40029195	Power supply Tufvassons PSLR24	1
40028788	Ground wire 100mm	1
40029341	Terminal SL 4/15	1
40029343	Terminal ES 15 PA	1
40029340	Terminal SRK 2,5/15 PA	2
40029330	PMC SB 5/50 So ERDE	1
40029329	PMC SB 5/50 So L	1
40029327	PMC SB 5/50 FW N	1
40029602	Automation base	1

Components

40029224	Humidity/temperature sensor Amphenol 600mm	1
40029982	WaGo 221-415	2
40031530	Screw ZN 4,2x25	4
40028774	Wire 255mm 1mm2 black	2
40028779	Wire 255mm 1mm2 blue	1
40031537	Washer 6798-A ZN M4x8	1
40031489	Nut DIN 934/8 ZN M4	1
40030997	Cable tie 2,5x200mm	10
40031115	eWind panel package	1
40030313	Triac cable 1000mm 4-pole	1
40034288	WiFi module package	1

Manuals etc. (depends on model)

eWind installation manual	1
eWind user manual	1
eWind electrical diagrams	1

Notes: