

Automation upgrade

LTR-6 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!**

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Electrical diagrams EDA21

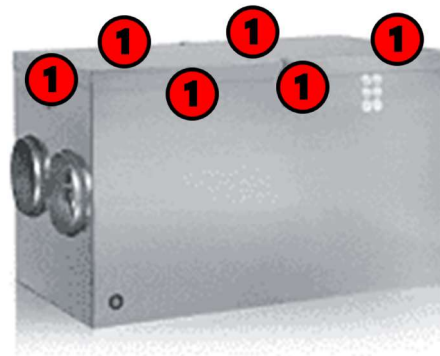
Electrical diagrams eWind25

Parts list eWind E29

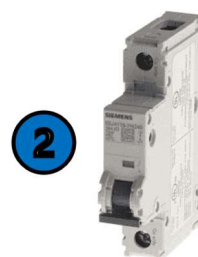
Parts list eWind W30

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Remove **the service door (1)** by releasing the locks.



Cut **the power to the unit (2)** (and other power supplies if available).

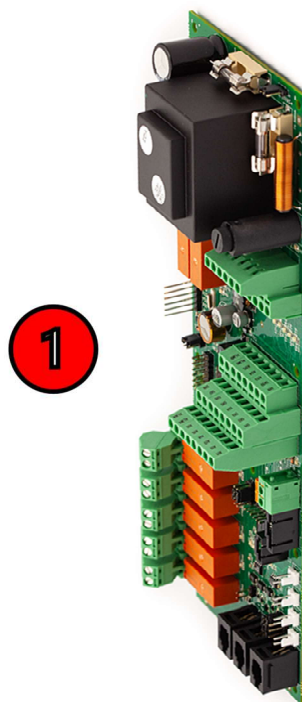


Remove **the cover to the electrical box (3)**.

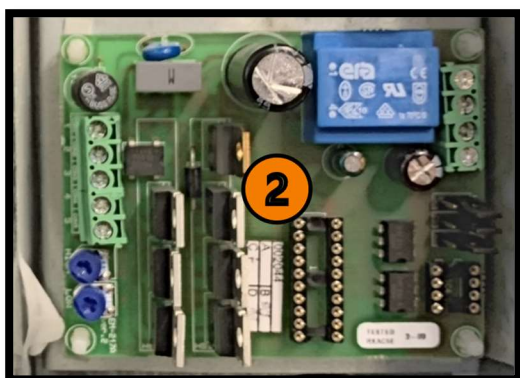
Note! Ensure that no voltage is occurring in the electrical box before proceeding!



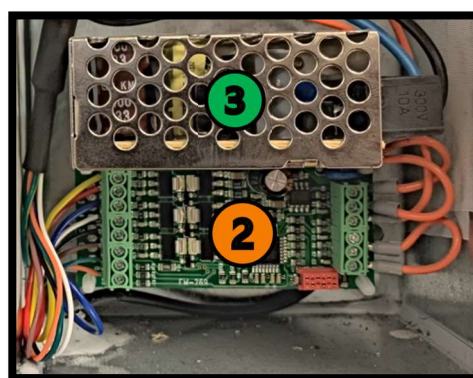
Mark all wires/sensors according to the marking on the main board and disconnect them from **the EDA main board (1)**.



Mark all wires according to the marking on the circuit board and disconnect them from **the HRW circuit board (2)** and **possible transformer (3)**.
Type of HRW depends on year of manufacture.



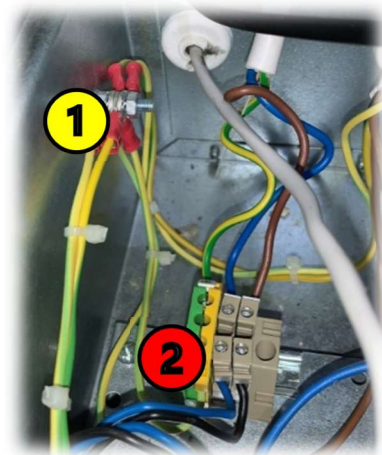
AC HRW circuit board.



DC HRW circuit board.

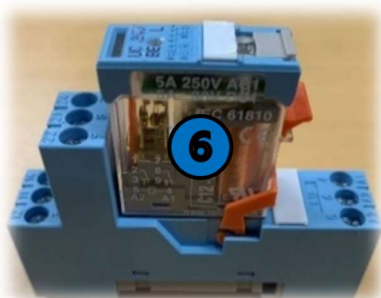
Disconnect **all ground wires (1)** from the ground point.

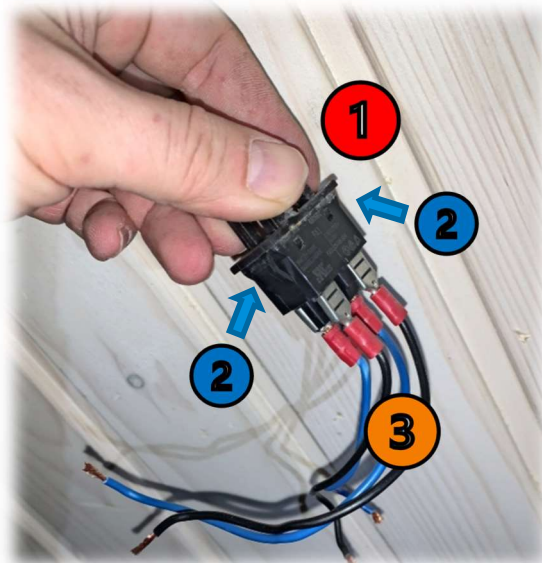
Disconnect the main power wires from **the terminals (2)**.



Remove **the screws (3)** and remove the automation base incl. **terminals (2)**, **PCB supports (4)** and **EDA main board (5)**.

If there is a **blue relay (6)** installed, remove the relay along with the wires and replace the electrical after heater with the new delivered one.





Remove **the main switch (1)** by pressing **the clips (2)**.
Disconnect and remove **the wires (3)** from the main switch.

Install **the new electrical after heater (10023275)**
if there was a **blue relay** installed in the electrical box.
Otherwise:

Open **the after heater (4)** (four screws).
Remove the old triac control cable and
install **the new triac control cable (5)** (40030313).
Install the other end of the triac control cable
into the electrical box.
Ignore if the unit has a water coil after heater installed.



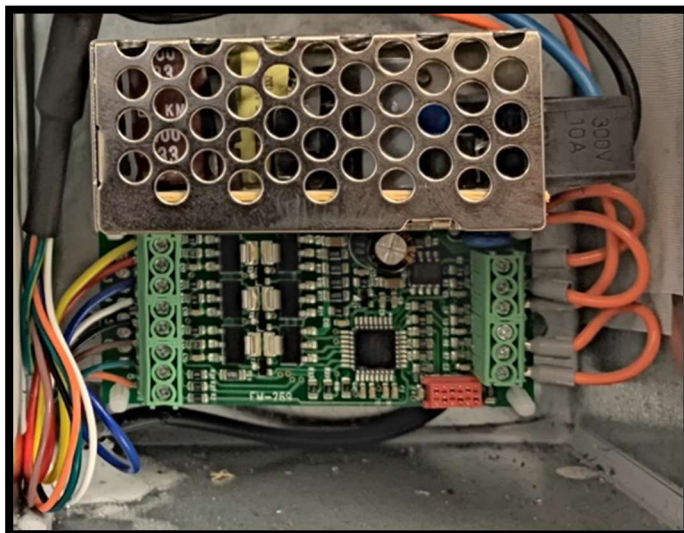
Remove **the old extract air sensor (6)**
and the cable (two screws).



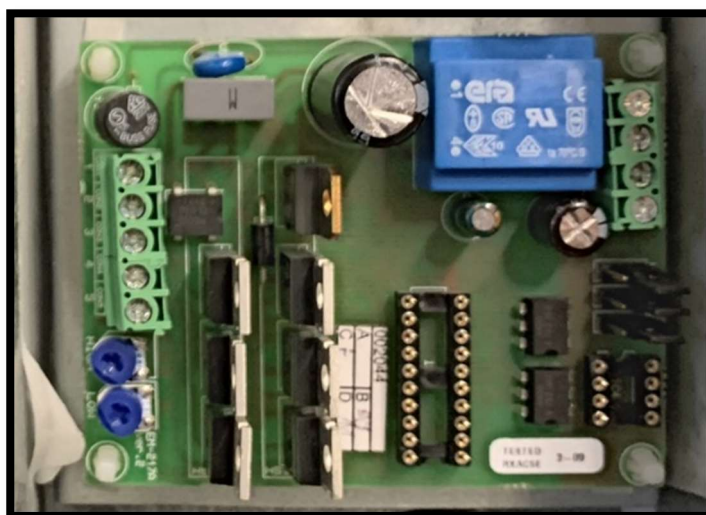
Drill a new 15mm hole in the corner of the electrical box
and install **the new extract air sensor (7)** (40029224)
with a cable sealing in the extract air chamber.



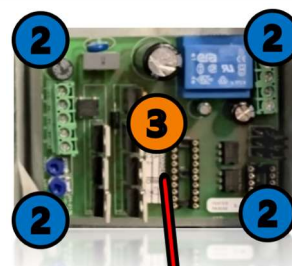
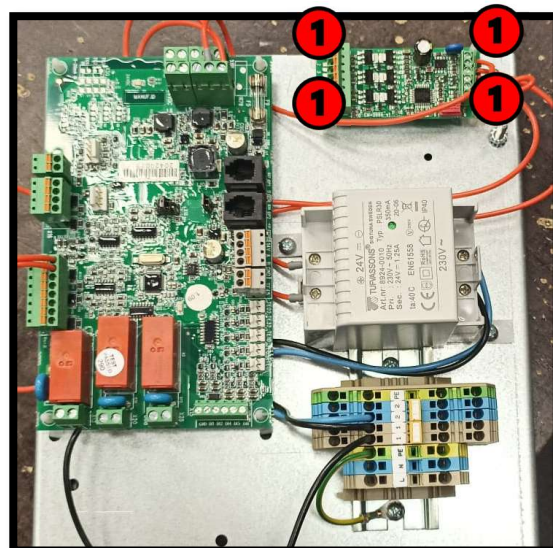
If the unit has a DC HRW installed, jump to *page 11*.



If the unit has an AC HRW installed, follow the instructions on *the next page*.

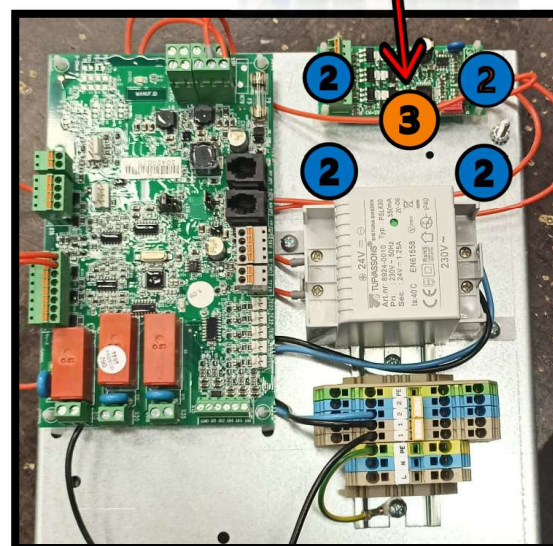


Remove **the PCB supports (1)** from the new automation base.



Mark **the holes (2)** for the **AC HRW circuit board (3)** to the automation base.

Drill **four 4,5mm holes (2)** according to **the previous markings (2)**.

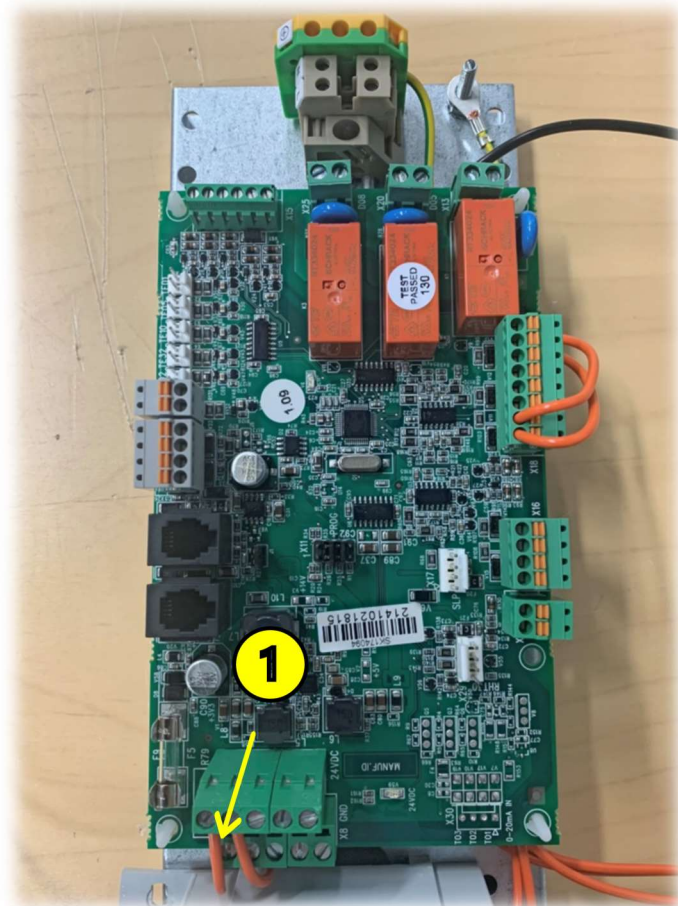


Install **the old PCB supports (4)** into **the drilled holes (2)**.

Attach **the AC HRW circuit board (3)** to **the PCB supports (4)**.



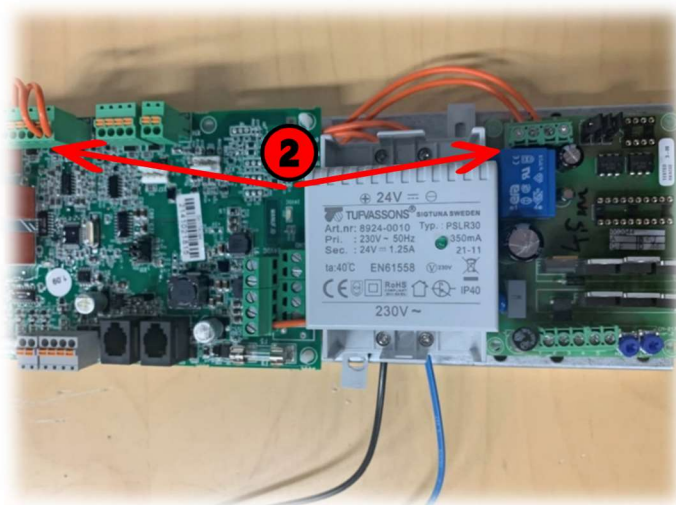
Disconnect and remove
the possible extra wire (1).



Connect **the wire from the main board connector "AO4" to AC HRW circuit board "8".**

Connect **the wire from the main board connector "GND" to AC HRW circuit board "7".**

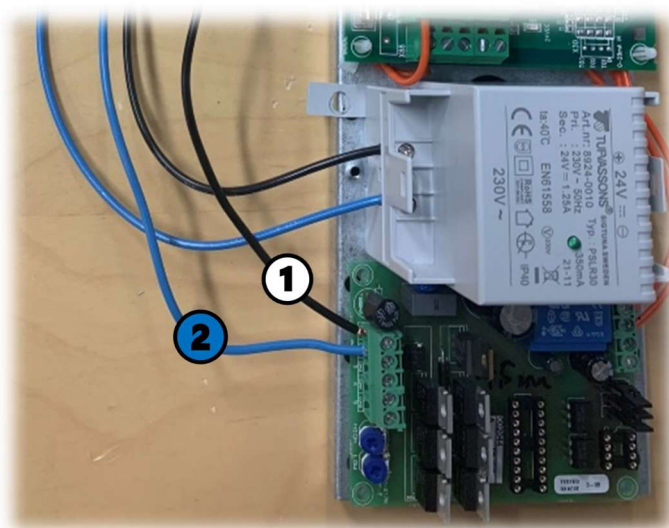
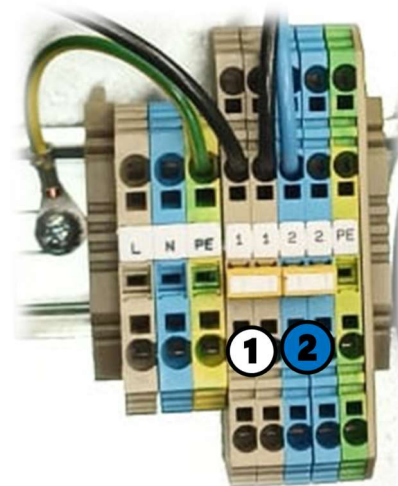
2



Connect **the wires (1, 2)** (40028774 & 40028779)
to the connection terminals and to the AC HRW
circuit board connectors:

1: Black

2: Blue



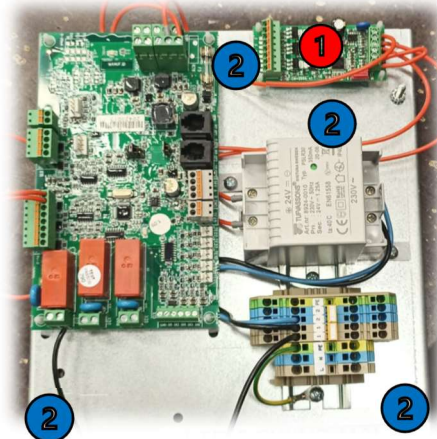


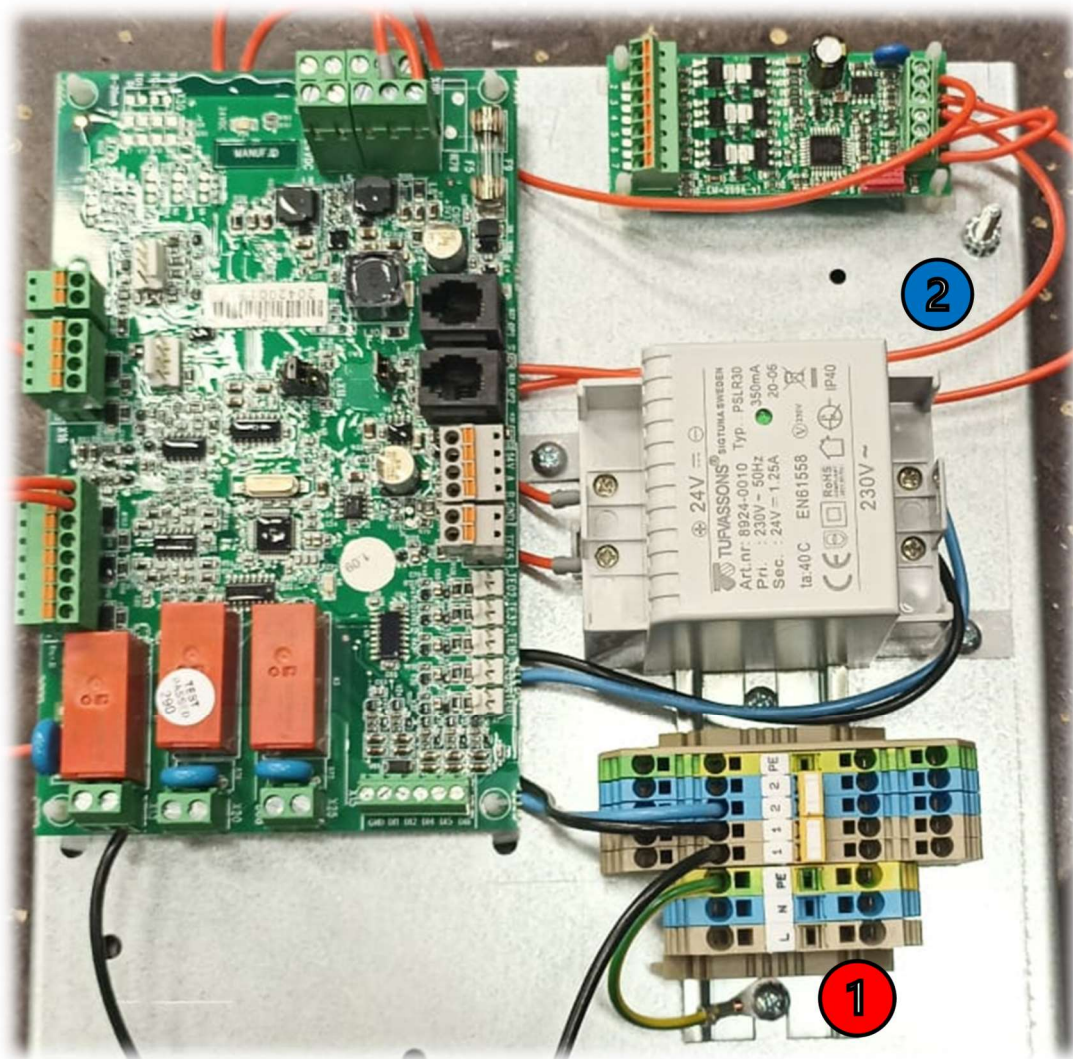
Move **the DC HRW control board (1)** to the new automation base. Connect **the DC HRW control board (1)** according to the electrical diagram (**pages 16 & 26**).

Install **the new automation** 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 (40029740)** to the electrical box with **four self tapping screws (2)** (40031530).





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

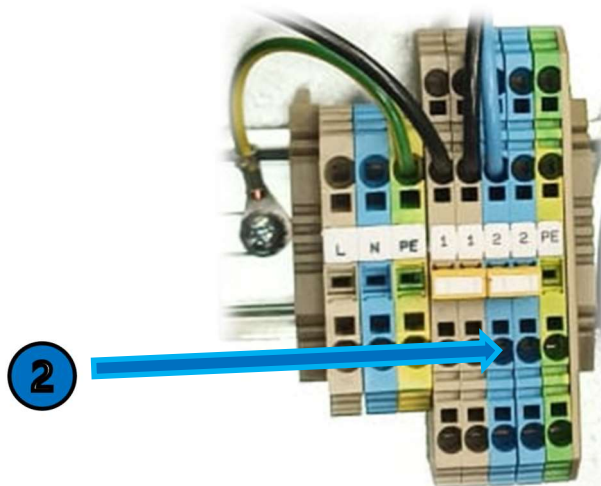
L: Brown
PE: Green/yellow
 N: Blue

Connect **all ground wires** to **the automation base ground point (2)**.

Supply air fan, extract air fan, (after heater), HRW.

Tighten with **the nut (40031489)**.

Connect **the blue wire** from the electrical after heater to **the blue "2" connection terminal (2)**.
Ignore if the unit has a water coil after heater installed.

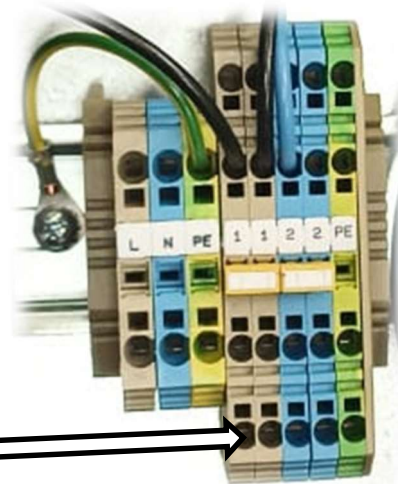


Connect **the brown wire** from the electrical after heater to **"DO2" (2)**.
If there is a water coil after heater installed, the circulation pump power wire (L) would be connected here.



Connect **the brown wires** / **the wires marked "1"** in the fan power cables to **connection terminal "1"** (1).

1



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

2



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



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

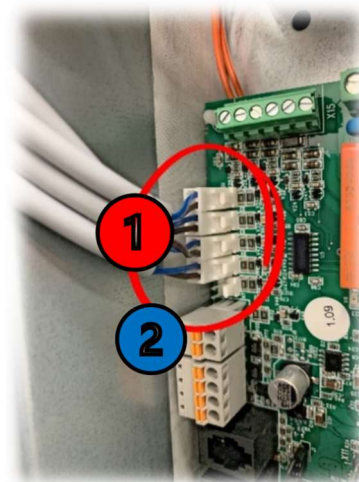
TE01: Outside air

TE05: HRW supply air

TE10: Supply air

TE32: Waste air

TE45: Return water sensor (2),
if the unit has a water coil after heater installed.



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

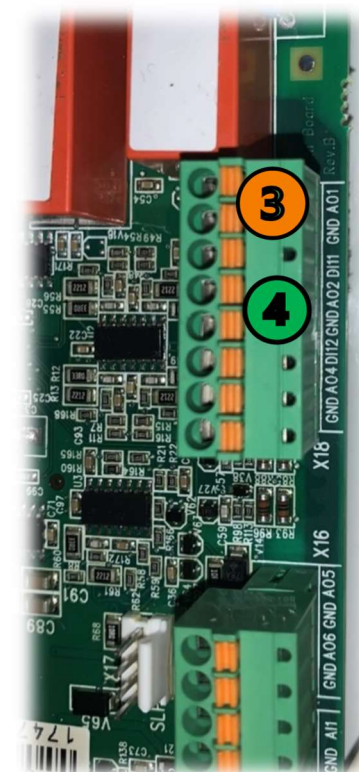
AO1: 1 (brown)

GND: 2 (black)

Connect **the wires from the extract air fan control cable (4)** to the main board.

AO2: 1 (brown)

GND: 2 (black)



Connect **the wires from the HRW cable to the HRW control board (1).**

1: Yellow

2: Red

3: Blue

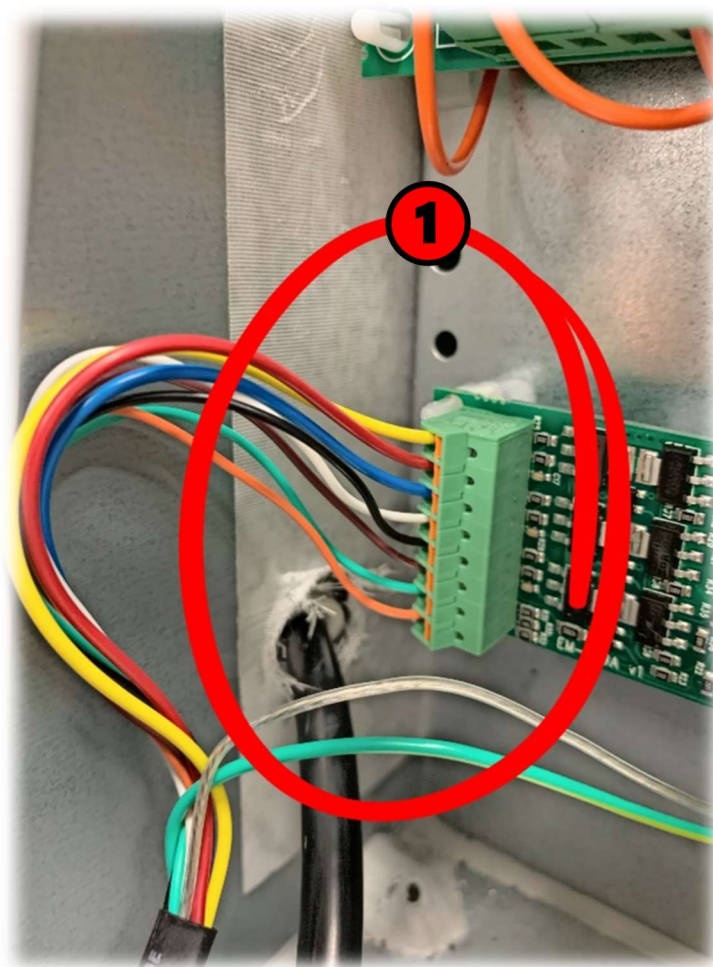
4: White

5: Black

6: Brown

7: Green

8: Orange



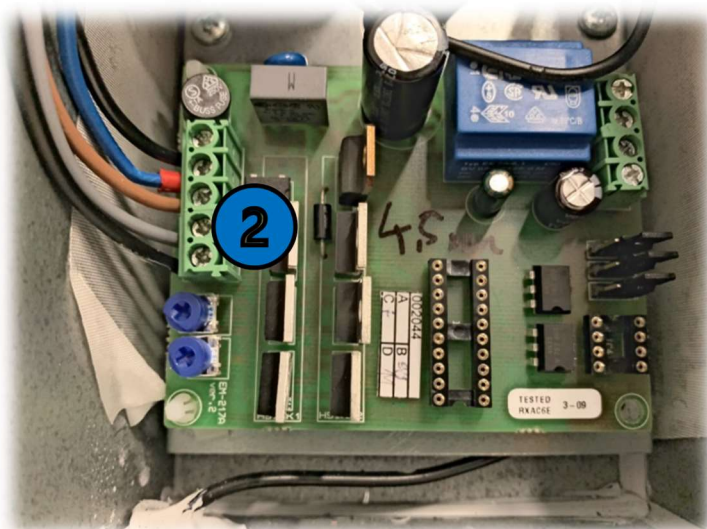
If AC HRW:

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

3: Brown

4: Gray

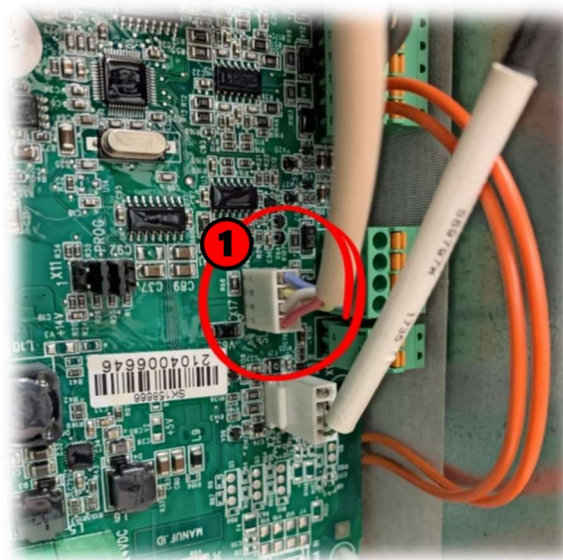
5: Black



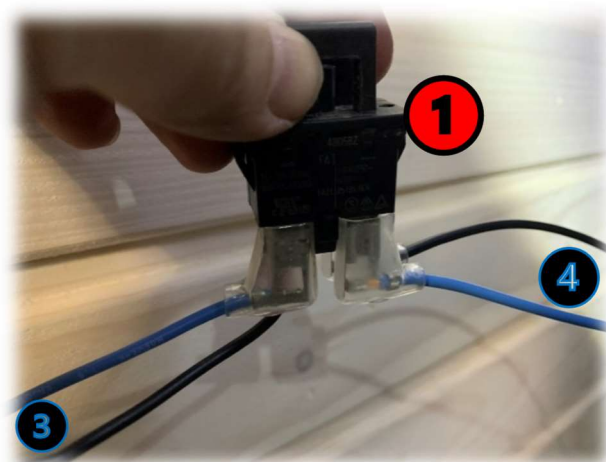
Connect *the after heater control cable (1)* to the main board (X17).

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 25-28).

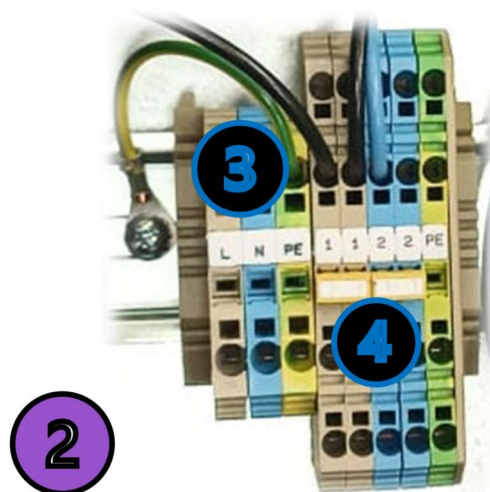


Connect **the pairs of wires with flat connectors**, (40028820, 40028819) to **the main switch (1)**, install the main switch and connect the wires to **the connection terminals (2)**.



L: Black (3)
N: Blue (3)

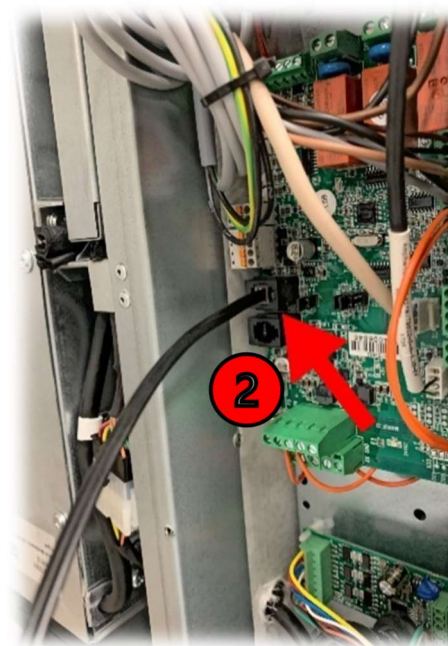
1: Black (4)
2: Blue (4)



Install *the new type plate sticker (1)*.



Connect *the display cable (2)* to the main board.
Close the cover to the electrical box.



Replace the old display with *the new display (3)* (40031115).

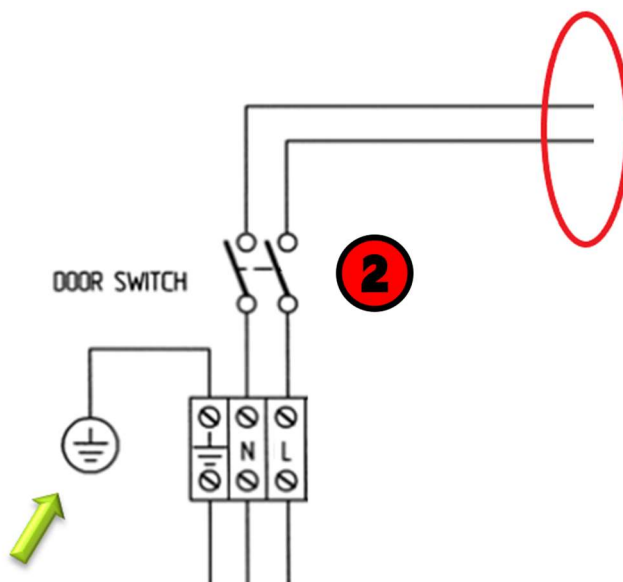


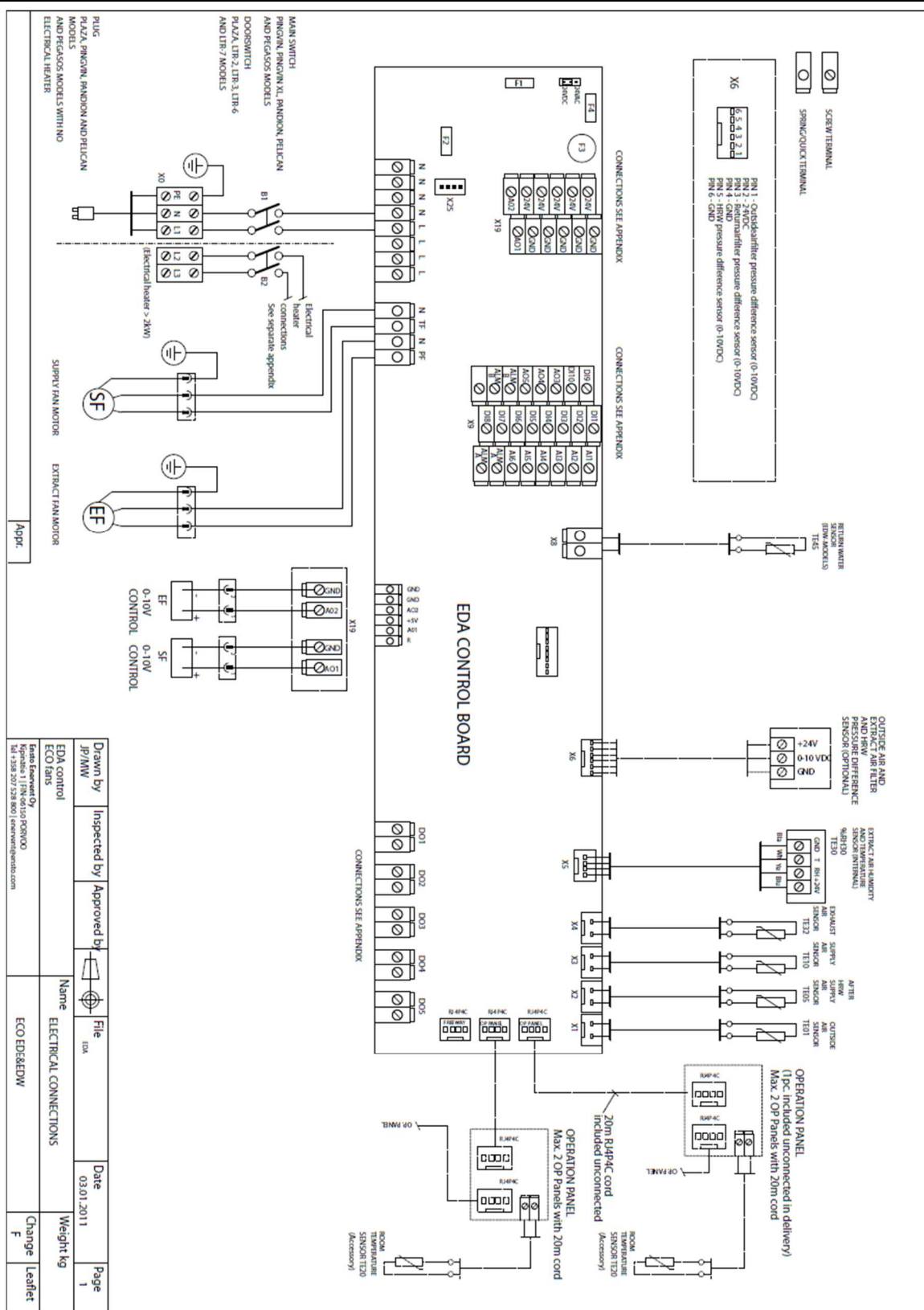
1

Install **the WiFi module (1)** (40034288).

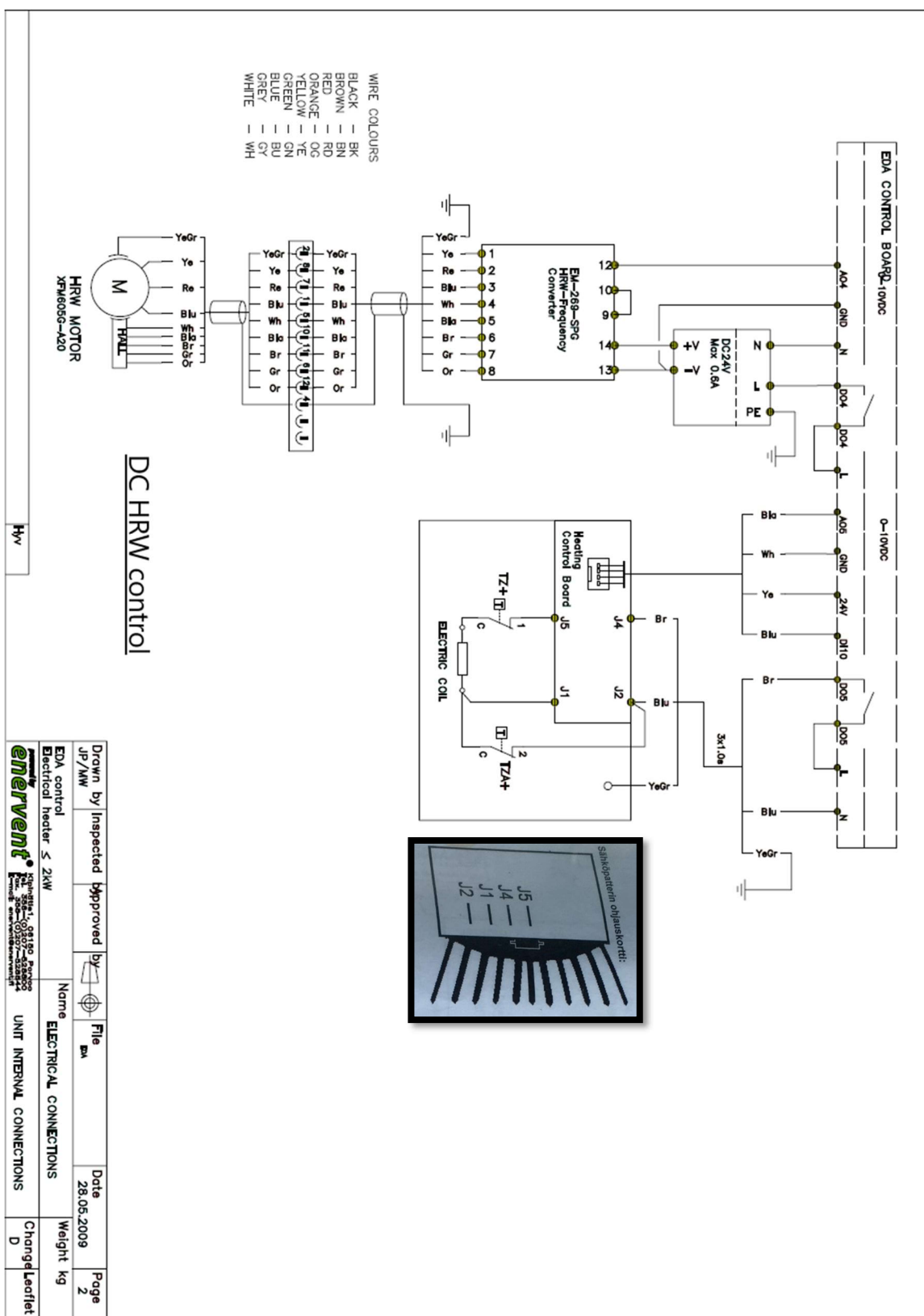


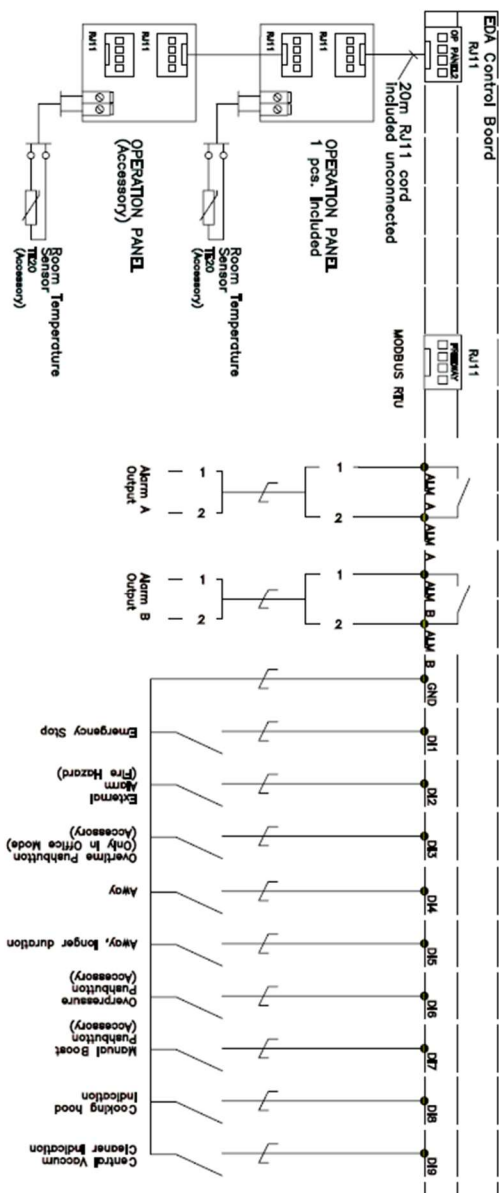
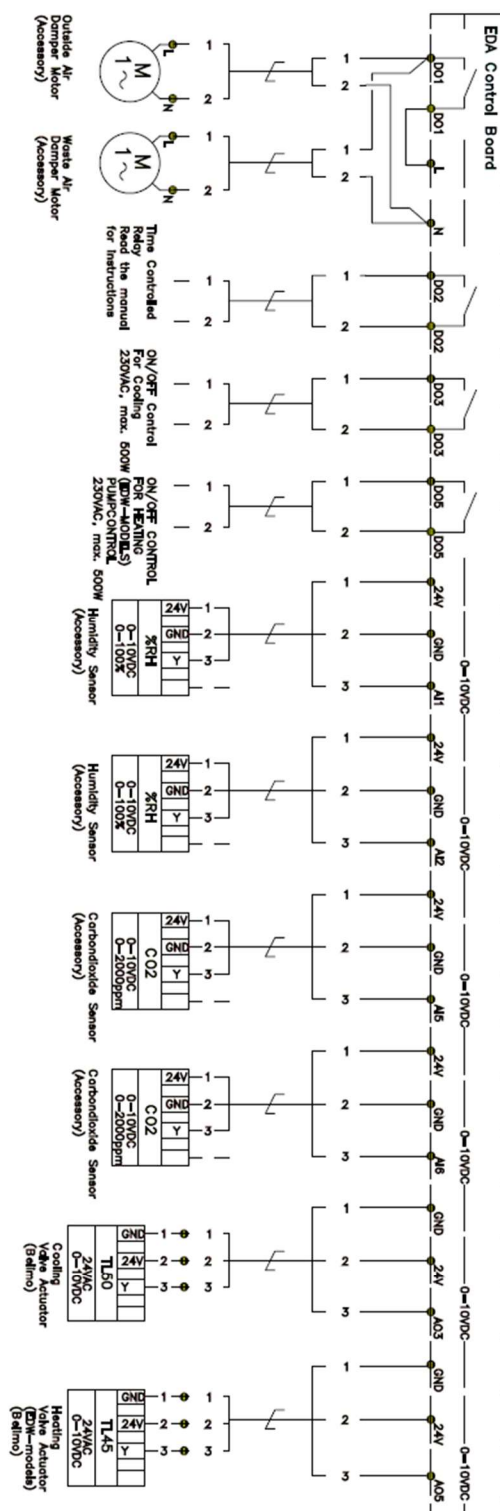
Press down **the main switch (2)** and perform insulation and ground continuity test according to regulations.



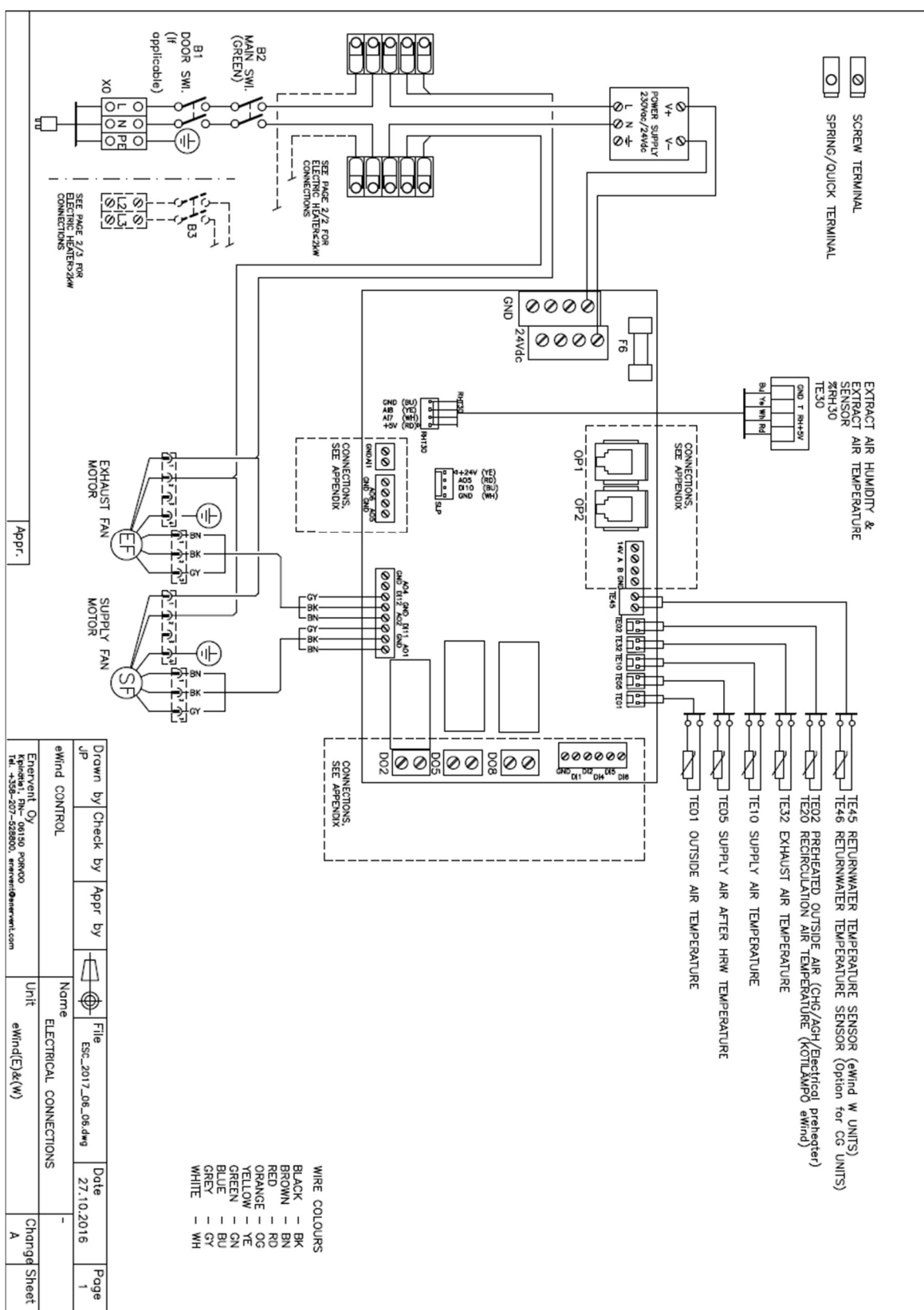


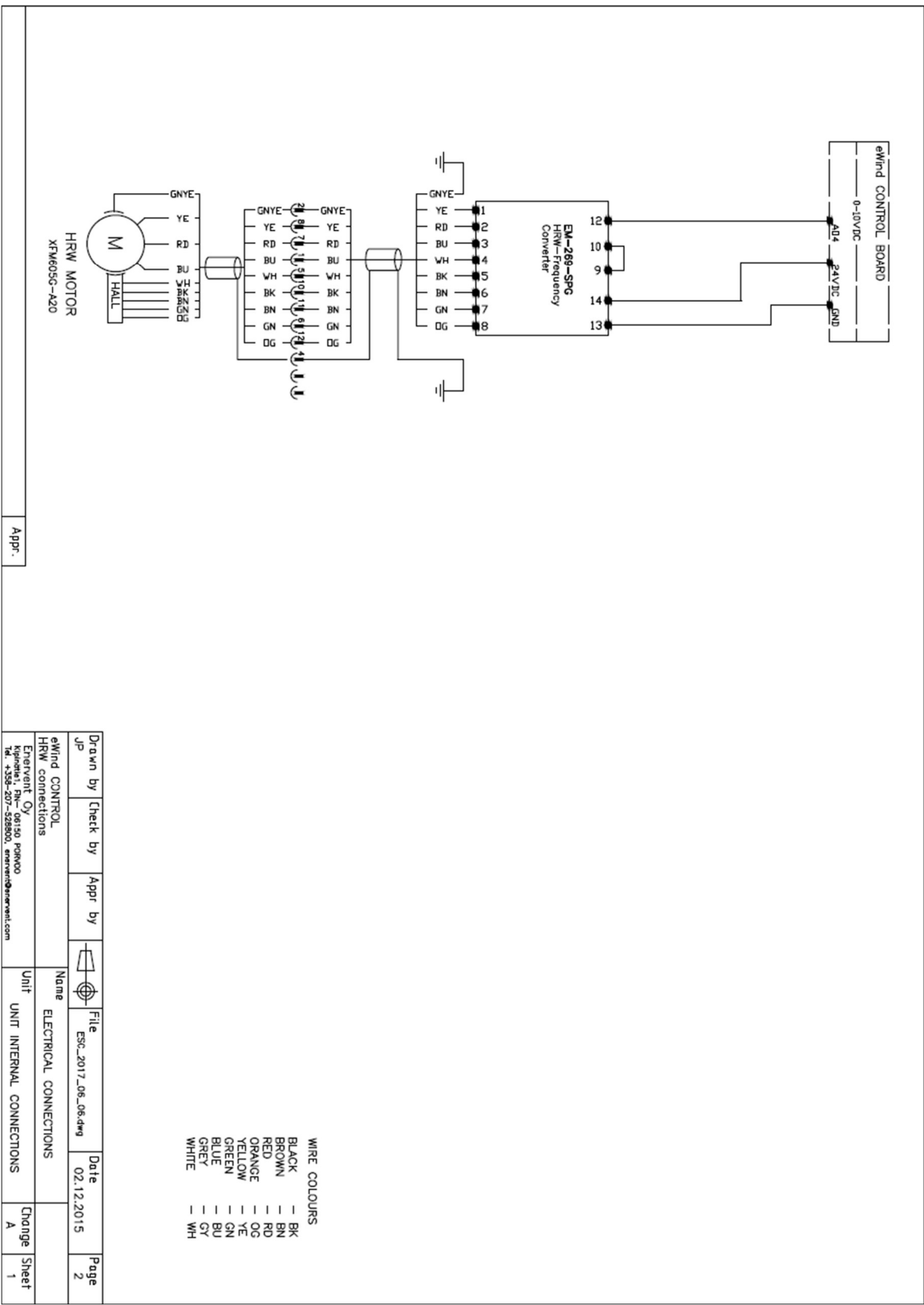


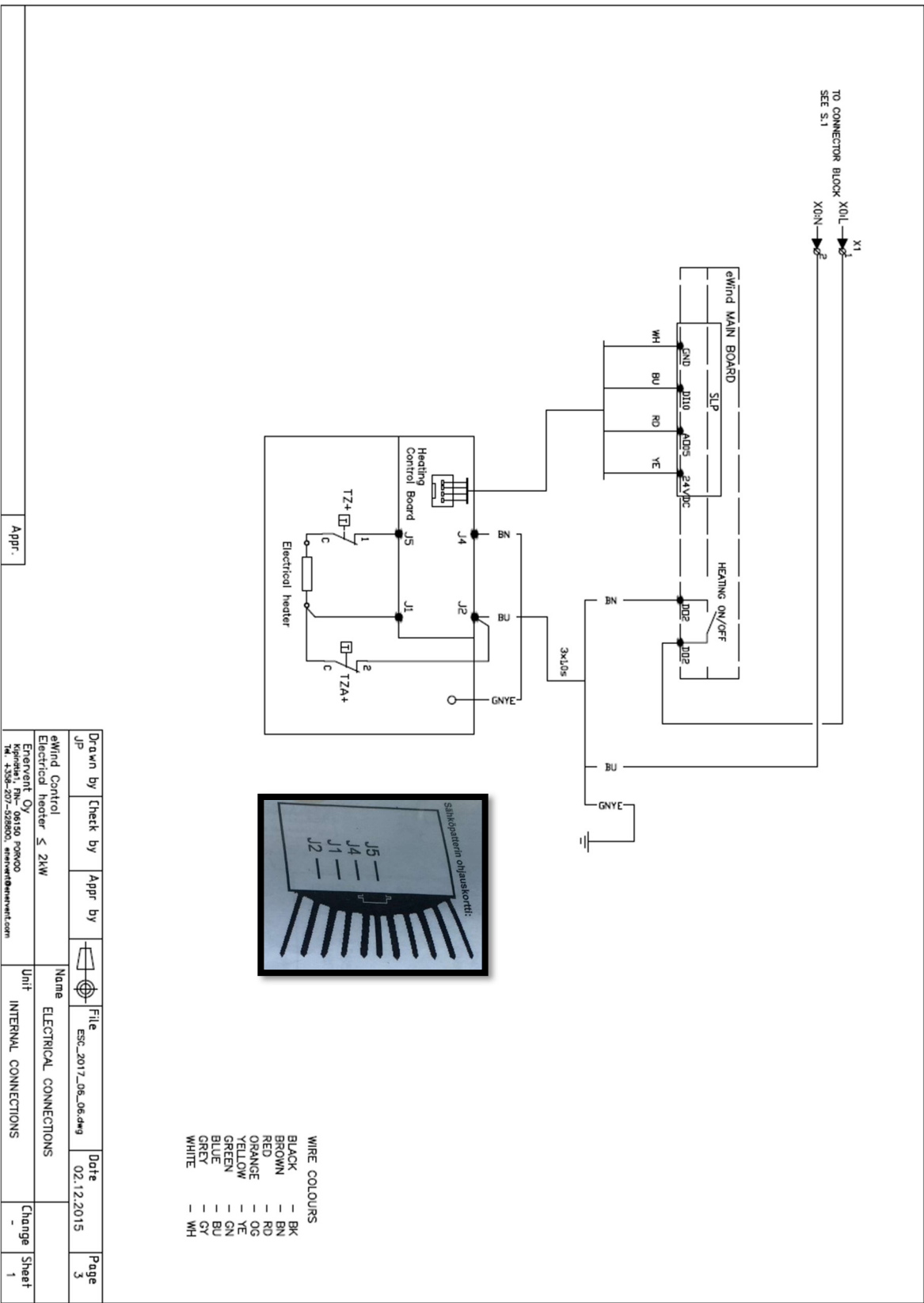


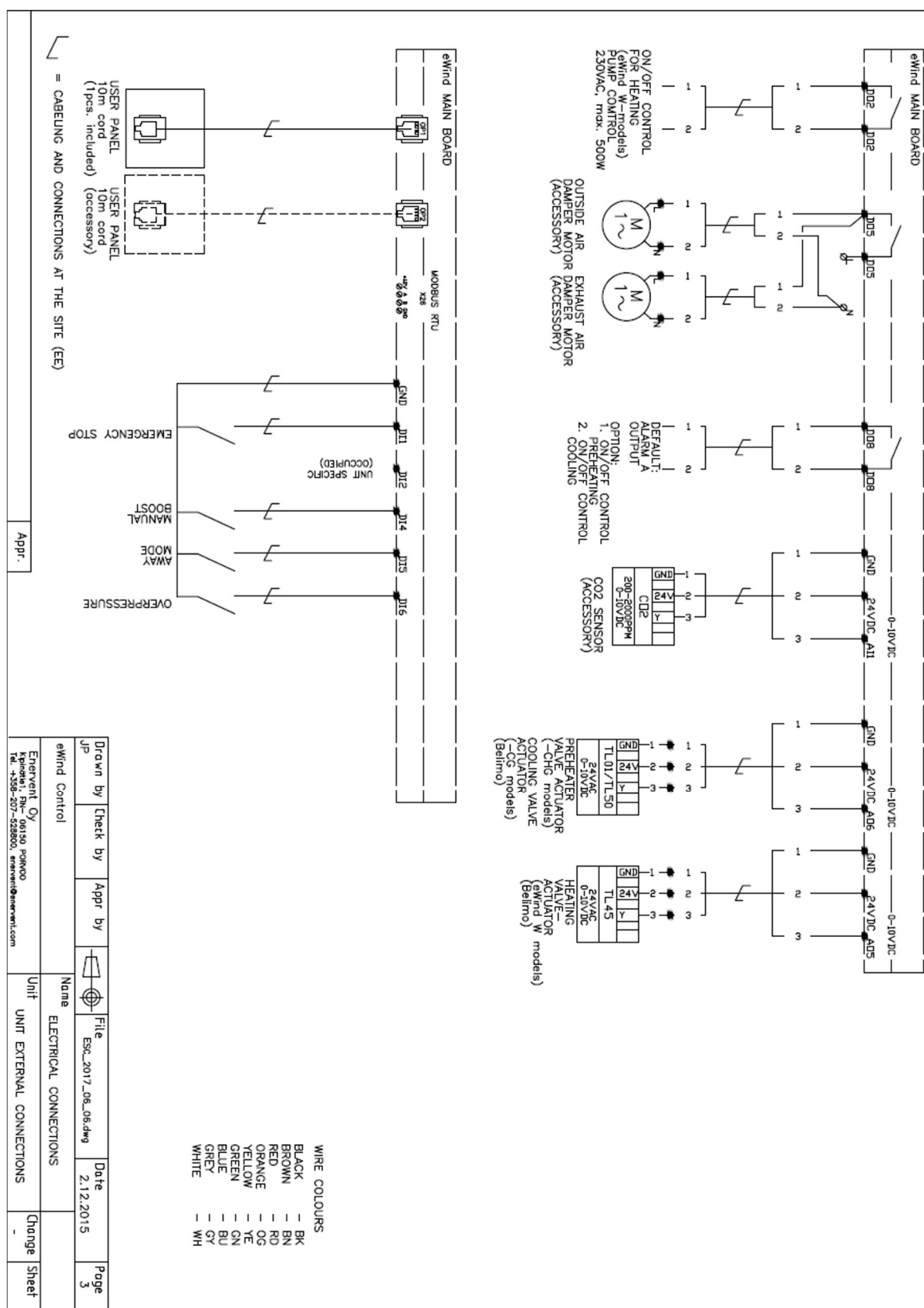


Drawn by	Inspected	Approved	by	File	Date	Page
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MANDATORY PARTS

10024016	CONTROL UPDATE KIT LTR-6 eco EDA → EWIND	1
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OPTIONAL PARTS

10023275	ELECTRICAL HEATER 2kW	1
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<u>Code</u>	<u>Description</u>	<u>Pcs.</u>
10024016	CONTROL UPDATE KIT LTR-6 eco EDA → EWIND	
	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
40028773	Wire 340mm orange 0,75mm ²	5
40028774	Wire 255mm 1mm ² black	1
40028779	Wire 255mm 1mm ² blue	1
40031094	eWind main board	1
40029195	Power supply Tufvassons PSLR24	1
40028788	Ground wire 100mm	1
40029740	Automation base	1
40029344	Terminal package	1
	Components	
40029224	Humidity/temperature sensor Amphenol 600mm	1
40031530	Screw ZN 4,2x25	4
40028820	Wire 600mm black (main switch)	2
40028819	Wire 600mm blue (main switch)	2
40028774	Wire 255mm 1mm ² black	2
40028779	Wire 255mm 1mm ² 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

MANDATORY PARTS

10024016 CONTROL UPDATE KIT LTR-6 eco EDA → EWIND 1

Code Description Pcs.

10024016 CONTROL UPDATE KIT LTR-6 eco EDA → EWIND

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
40028773	Wire 340mm orange 0,75mm ²	5
40028774	Wire 255mm 1mm ² black	1
40028779	Wire 255mm 1mm ² blue	1
40031094	eWind main board	1
40029195	Power supply Tufvassons PSLR24	1
40028788	Ground wire 100mm	1
40029740	Automation base	1
40029344	Terminal package	1

Components

40029224	Humidity/temperature sensor Amphenol 600mm	1
40031530	Screw ZN 4,2x25	4
40028820	Wire 600mm black (main switch)	2
40028819	Wire 600mm blue (main switch)	2
40028774	Wire 255mm 1mm ² black	2
40028779	Wire 255mm 1mm ² 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: