HUOLTO OHJE REVISIO: B
19.7.2024
Oscar Husman

Automation upgrade

LTR-3 AC -> eWind

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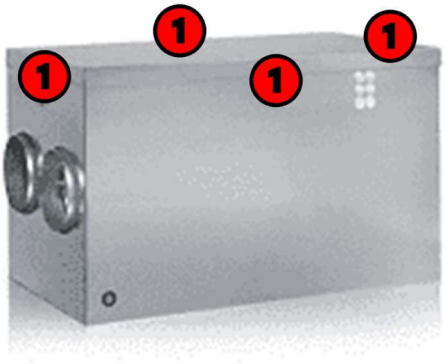
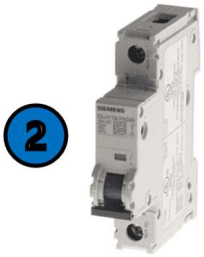
Remove ***the service door (1)*** by releasing the locks.

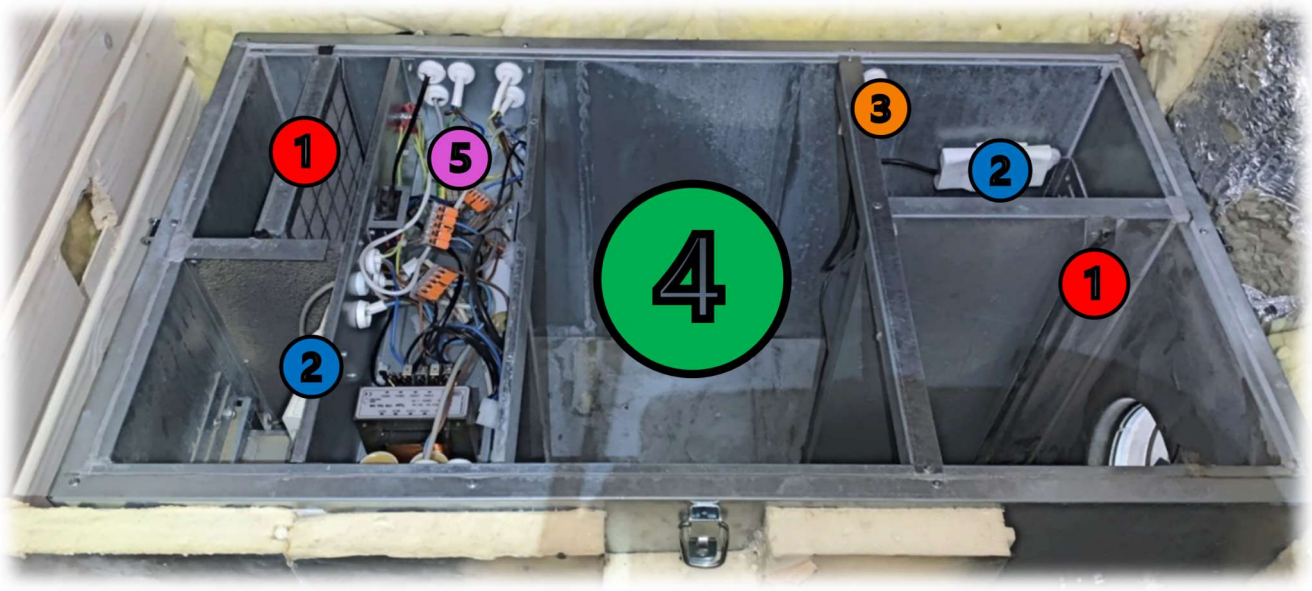


Cut ***the power to the unit (2)*** (and other power supplies if available).



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

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



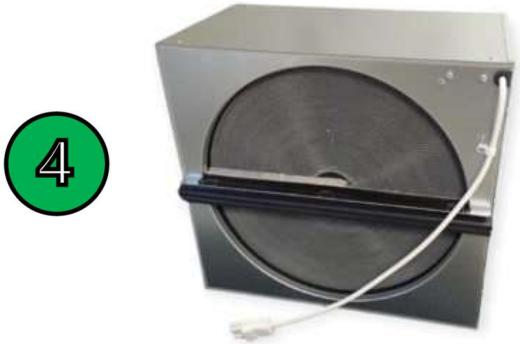
Remove ***the filters (1)*** by pulling.

Disconnect ***the fan connectors (2)***.

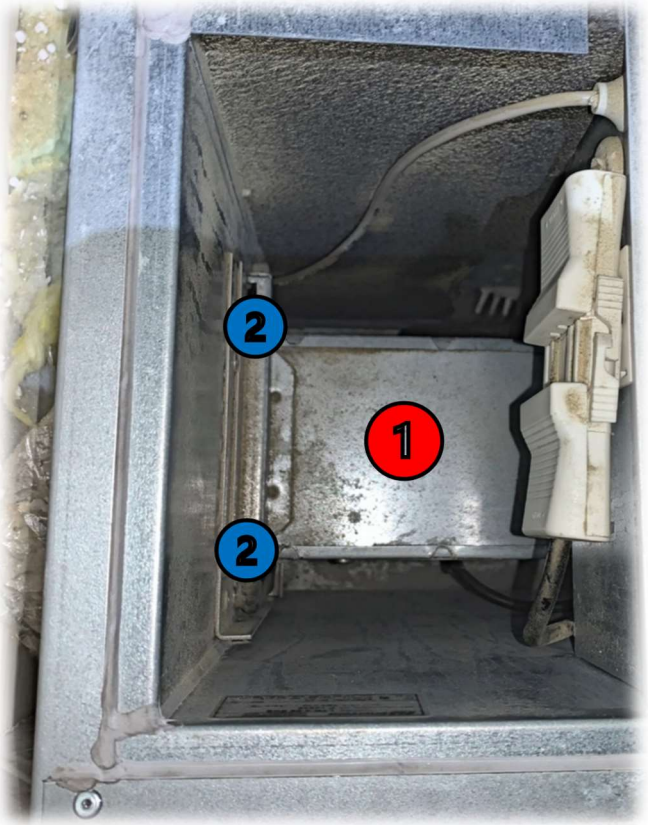
Disconnect ***the HRW connector (3)***.

Remove ***the HRW (4)*** by pulling.

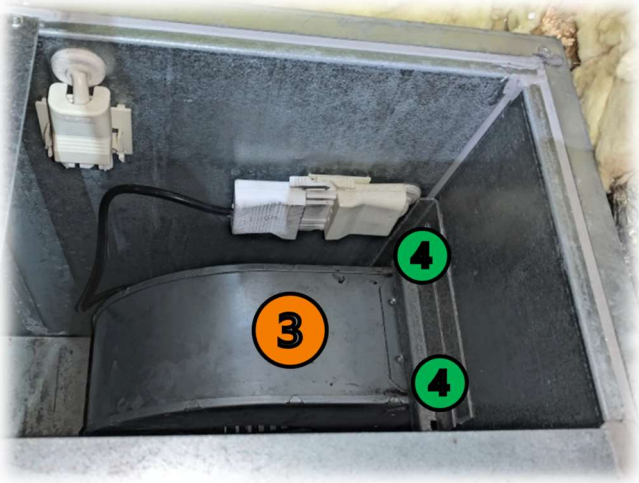
Disconnect the main switch power wires from ***the terminals (5)***.



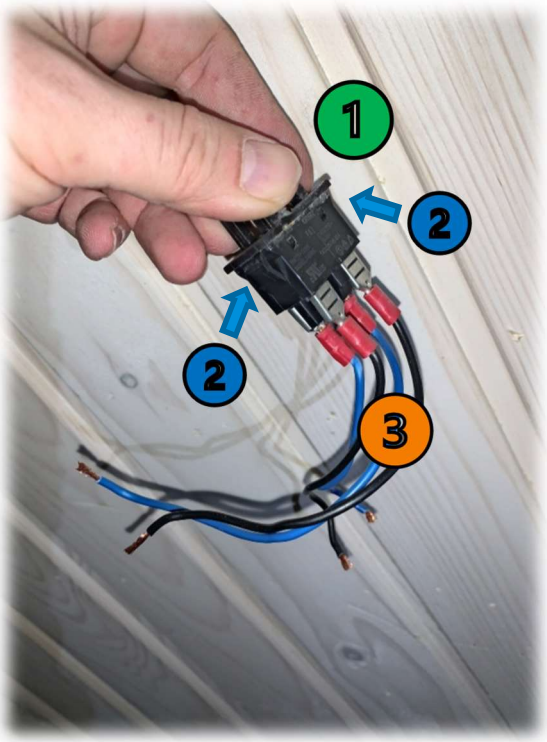
Remove ***the supply air fan (1)*** by releasing ***the screws (2)***.



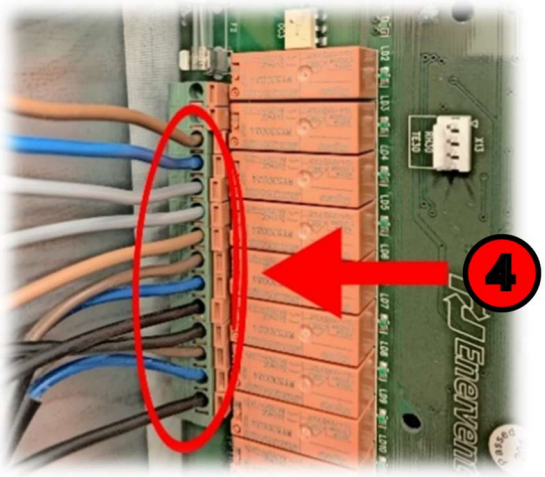
Remove ***the extract air fan (3)*** by releasing ***the screws (4)***.



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



Remove ***the wires (4)*** from the main board
by pressing the orange button next to the wire.



Disconnect ***the ground wire (1)*** from the main board and remove it.

If a water coil after heater is installed (ACW), the actuator is connected ***here (2)***.
Disconnect and remove the wires.
The actuator can´t be used anymore.
Install the new actuator afterwards according to the electrical diagram ***(page 38)***.

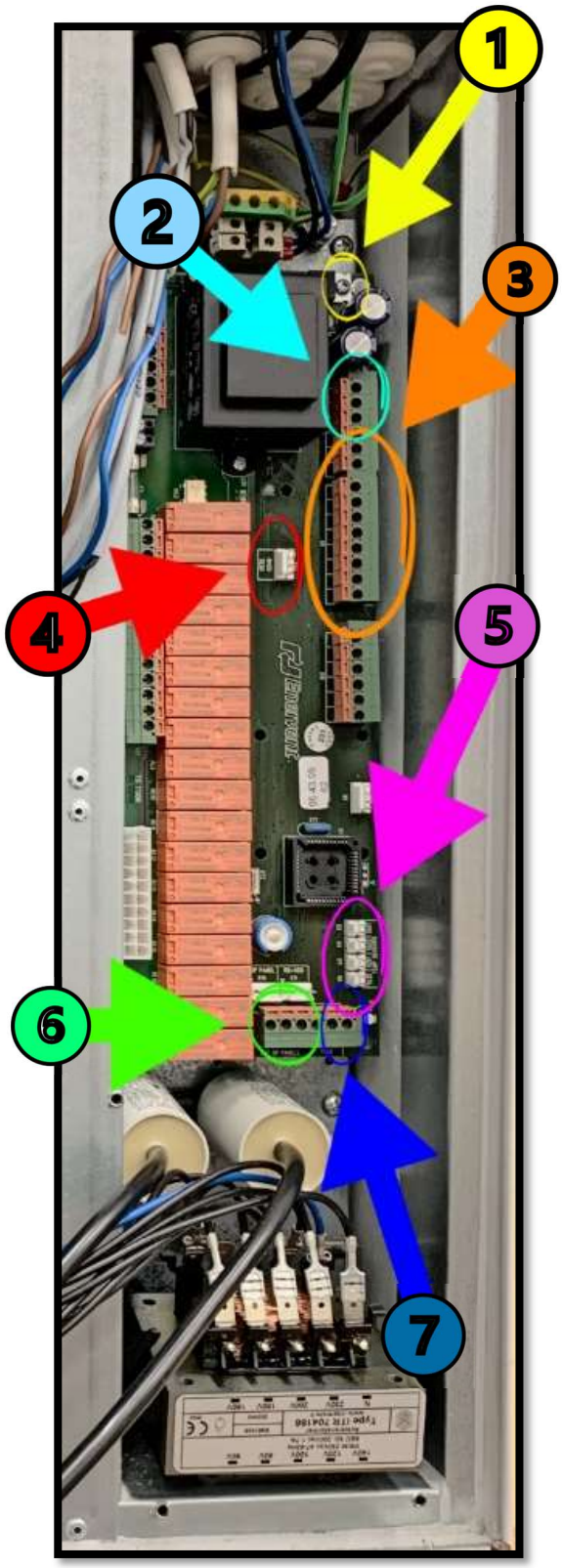
If there are wires connected ***here (3)***, mark them according to the reading on the main board and disconnect.

Disconnect ***the cable (4) and remove the extract air sensor (two screws) and reattach the two screws***.

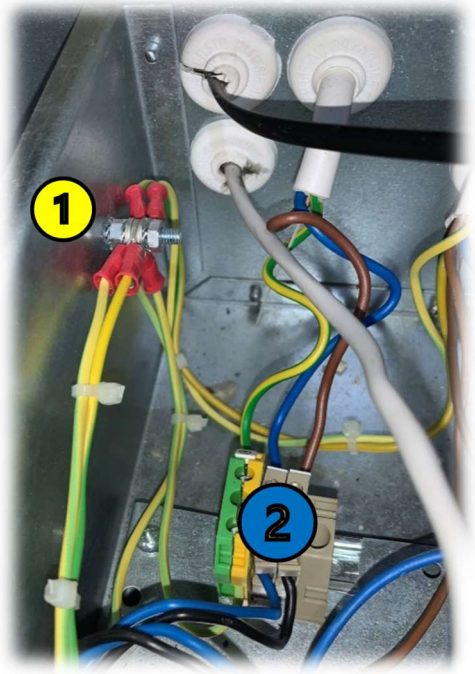
Disconnect ***the sensors (5)***.

Disconnect ***the wires (6)***.
Don´t remove this cable, it might be needed later.

If a water coil after heater is installed (ACW), the return water sensor is connected ***here (7)***.
Disconnect and remove the wires.
The sensor can´t be used anymore.



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



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

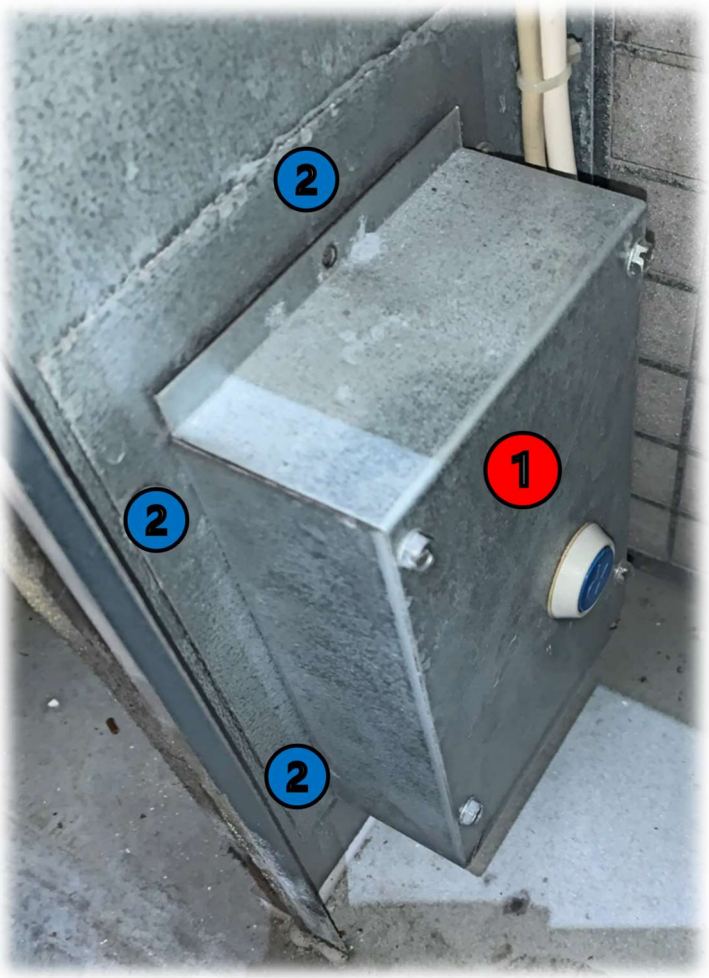
Remove ***the screws (2)*** and remove the automation base,
incl. ***terminal blocks (1)***, ***main board (3)***, ***capacitors (4)*** and ***transformer (5)***.

Remove ***the supply air sensor (1)***.
Ignore if the unit has a water coil after heater or a cooling coil installed.

Remove ***the supply air fan cable (2)***.

Remove ***the HRW supply air sensor (3)***.

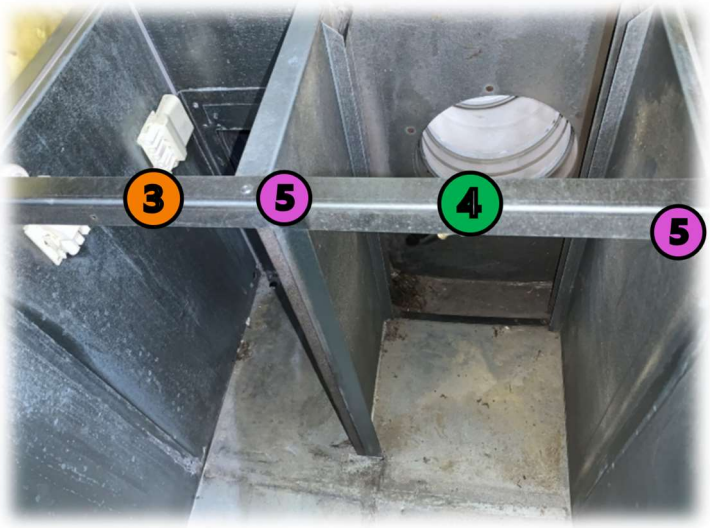
Remove ***the after heater and the cables (1)*** by releasing ***the five screws (2)***.
Ignore if no electrical after heater installed.



Release ***the waste air sensor (3)***.

Release ***the outside air sensor (4)***.

Remove ***the cable sealings (5)***.

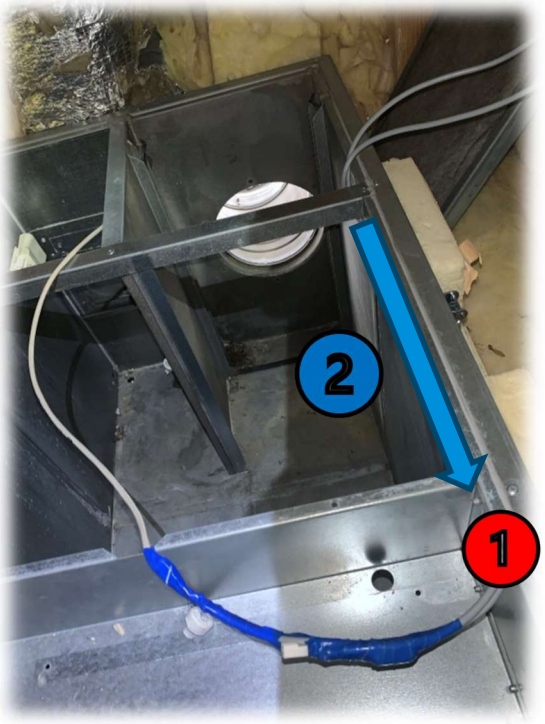


Attach ***the new sensors (1) (1700mm)*** *(40029167)* to ***the old sensors (2)*** with strong tape.

Mark the new sensors in both ends:
”TE01” (outside air)
”TE32” (waste air)

Remove ***the cable sealings (1)***.

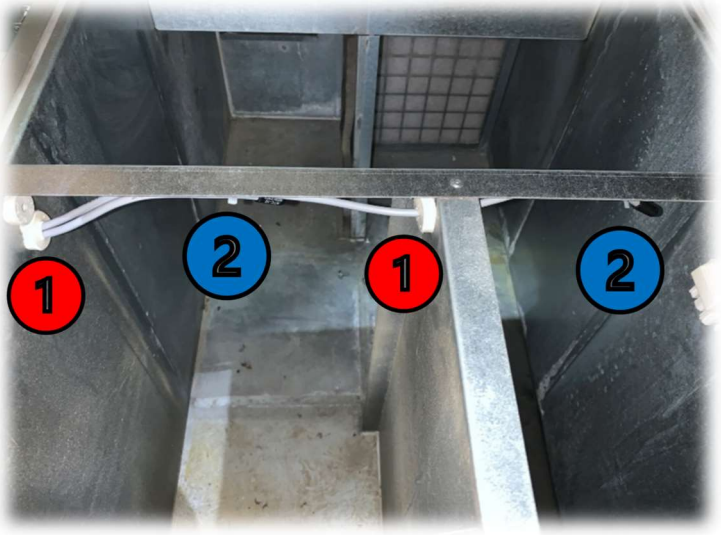
Install ***the new sensors (1700mm)*** *(40029167)* ***into the electrical box (2)***.



Install ***new cable sealings (3)*** *(40030100)*.

Install ***new cable sealings (1)*** *(40030100)*.

Attach the sensors to ***the frame (2)***
with cable ties *(40030997)*.



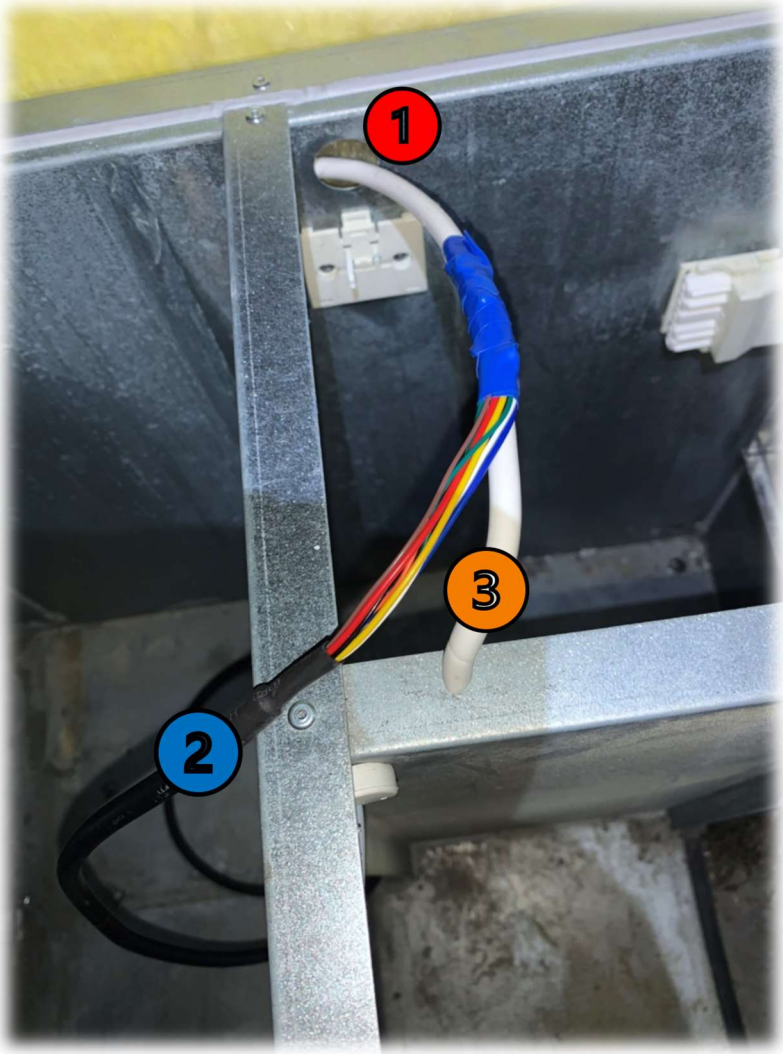
Install ***the new HRW supply air sensor (850mm) (3)*** *(40029165)*.

Mark the sensor:
"TE05" (HRW supply air)

Install ***the new supply air sensor (850mm) (4)*** *(40029165)*.

Mark the sensor:
"TE10" (supply air)

Ignore if the unit has a water coil after heater or a cooling coil installed. Replace the old supply air sensor with ***the new supply air sensor (3000mm)*** *(40029168).*

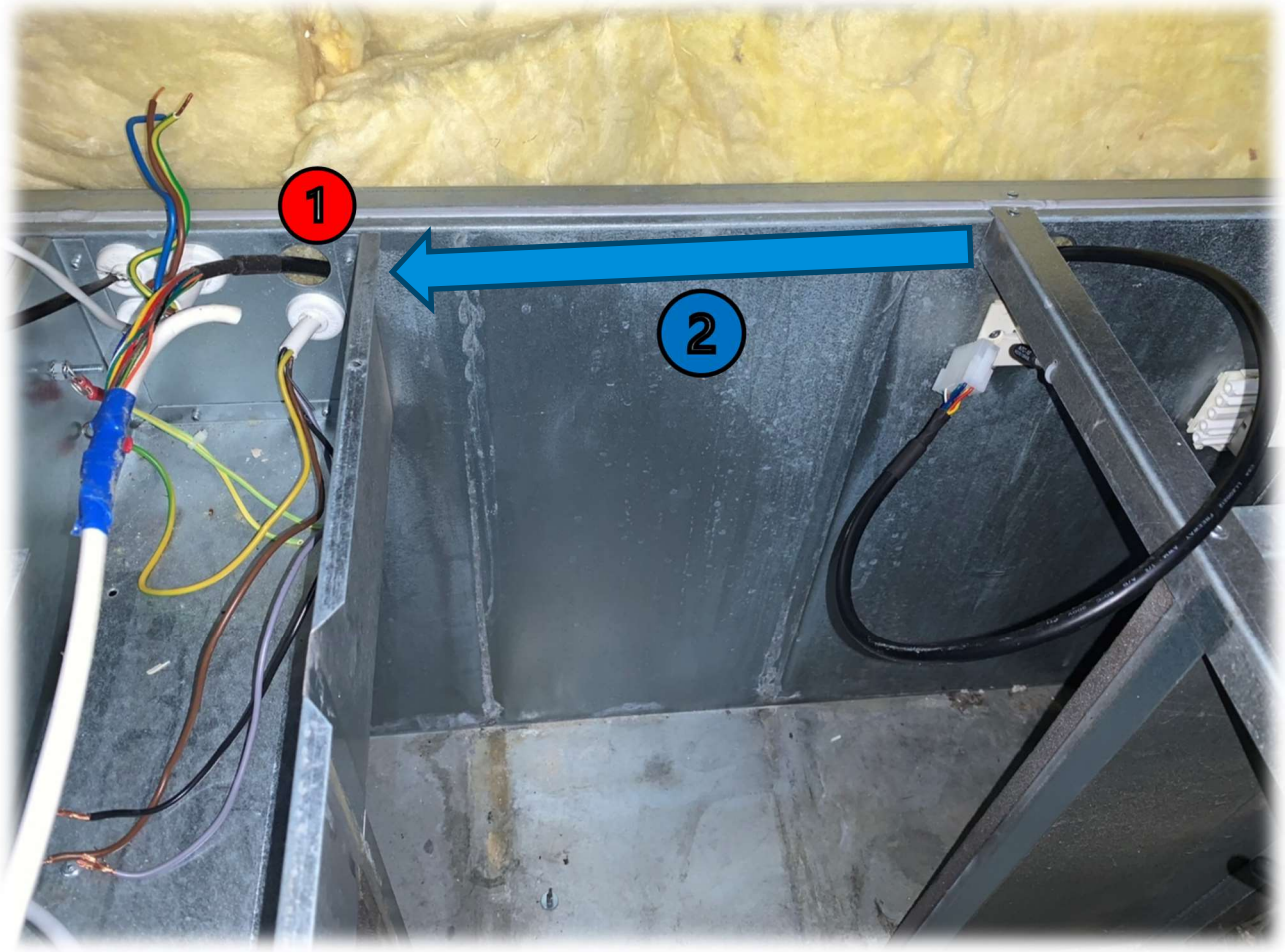


Remove ***the cable sealing (1)***.

Cut ***the old HRW cable (3)***.

Install ***a new cable sealing*** *(40029244)* ***to the new HRW cable (2)*** *(40033952)*.

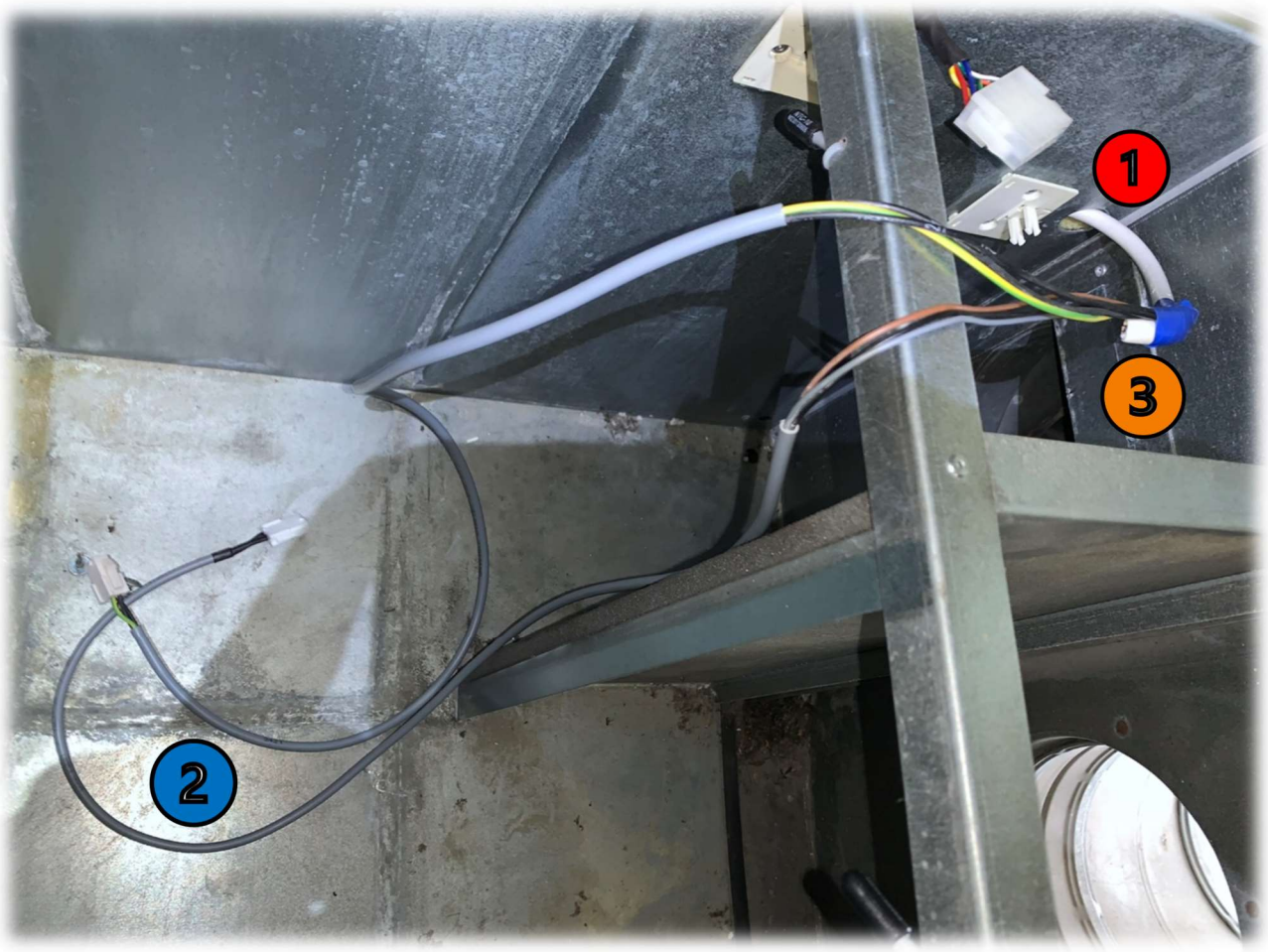
Attach ***the new HRW cable (2)*** *(40033952)* to ***the old HRW cable (3)*** with strong tape.



Remove ***the cable sealing (1)***.

Install ***the new HRW cable*** *(40033952)* ***to the electrical box (2)***.

Install ***a new cable sealing (1)*** *(40029244).*



Remove ***the cable sealing (1)***.

Cut ***the old extract air fan cable (3)***.

Install ***a new cable sealing*** *(40029244)* ***to the new extract air fan cables (2)*** *(40028803, 40028802)*.

Attach ***the new extract air fan cables (2)*** *(40028803, 40028802)*
to ***the old extract air fan cable (3)*** with strong tape.

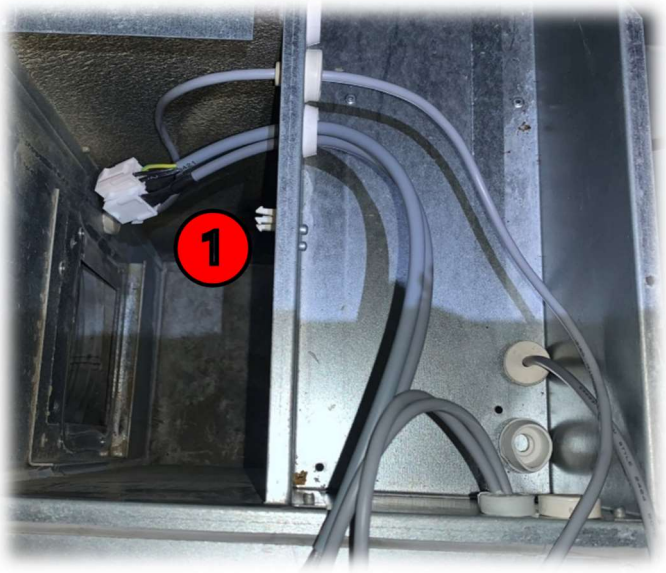
Remove ***the cable sealing (1)***.

Install ***the new extract air fan cables (2)*** *(40028803, 40028802)* ***into the electrical box (2)***.

Install ***a new cable sealing (1)*** *(40029244)*.

New cables installed.

Install ***the new supply air fan cables (1)*** *(40028782, 40028784)* to the electrical box.



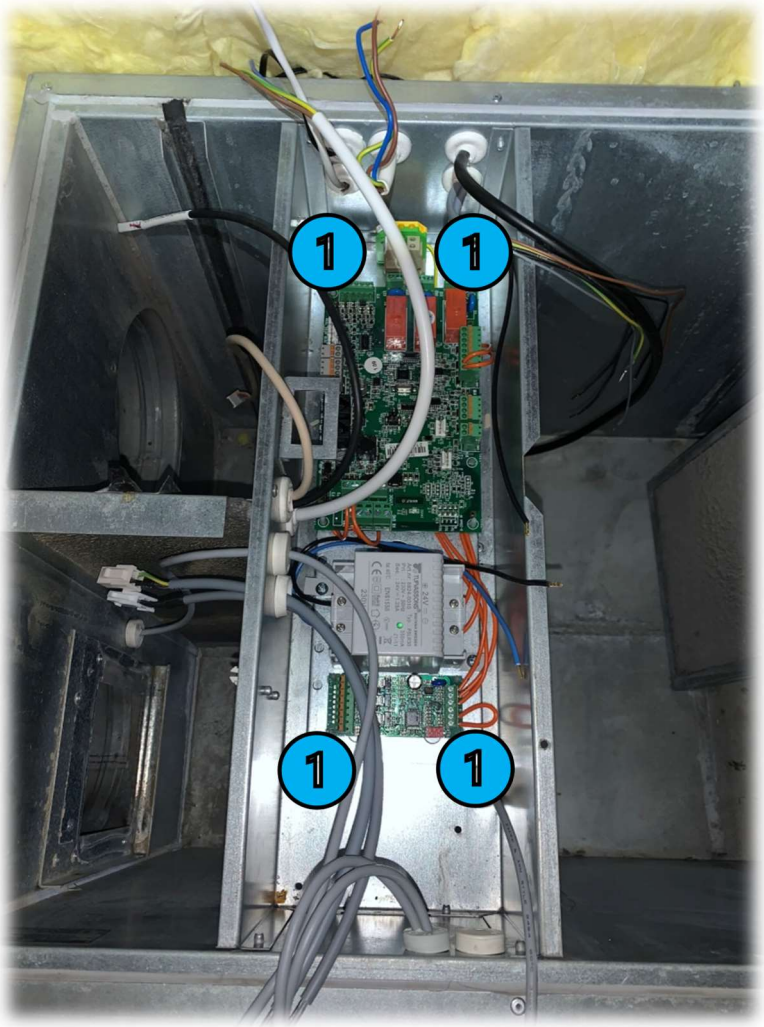
Install ***the new electrical after heater (2)*** *(10023290)* and install the cables in the electrical box.
Ignore if the unit has a water coil after heater installed.

Install ***the new extract air sensor (3)*** *(40029223).*

Install ***the new automation base*** *(40029647)* in the electrical box.

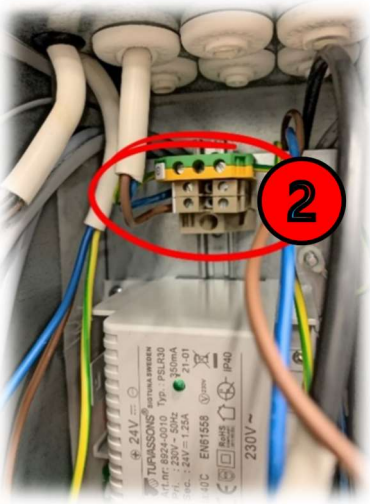
Make sure no installed cable / sensor get stuck behind the automation base and that they are available in front of the main board.

Attach ***the new automation base*** *(40029647)* to the electrical box with ***four self tapping screws (1)*** *(40031530)*.

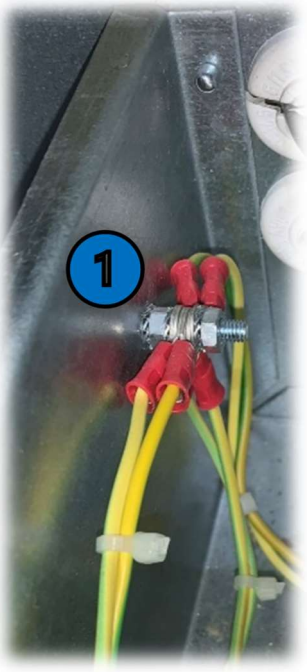


Connect ***the main power wires to the terminals (2)***.

L: Brown
PE: Green/yellow
N: Blue

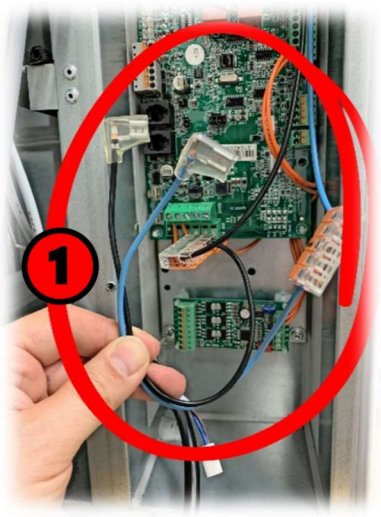


Connect ***all ground wires*** to ***the ground point (1)***.
Supply air fan, extract air fan, (after heater), (HRW), ground terminal.
Tighten with ***the nut*** *(40031489).*

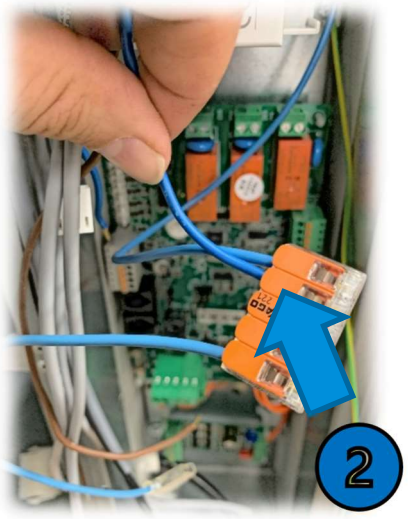


Install ***the connection terminals (2)*** *(40029982).*
*One for "**L**" and one for "**N**".*

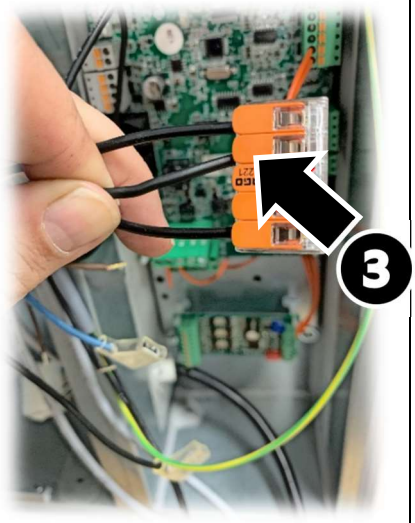
Connect one pair of ***the wires with flat connectors*** *(40028776, 40028777)* ***to the connection terminals (1)*** *(40029982)*.



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



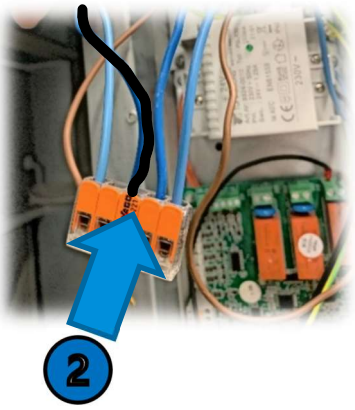
Connect ***the black wire*** (*40028774)* to ***the black connection terminal (3)*** *(40029982)*.



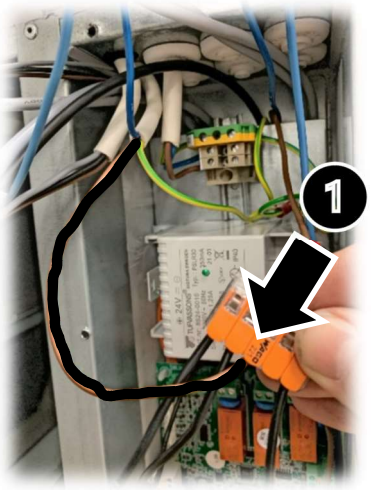
Connect ***the black wire*** *(40028774)* to ***"DO2" (2)*** on the main board.

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.

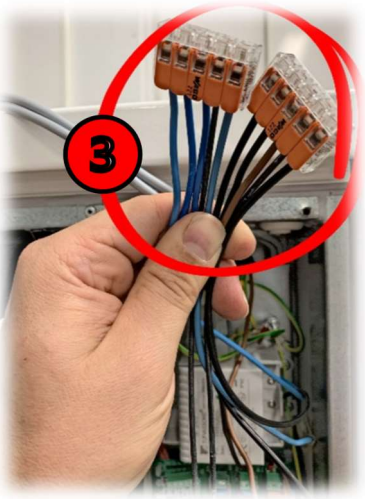
Connect ***the wires marked "2"*** in the fan power cables *(40028782, 40028803)*
to ***the blue connection terminal (2)*** *(40029982)*.



Connect ***the wires marked "1"*** in the fan power cables *(40028782, 40028803)*
to ***the black connection terminal (1)*** *(40029982)*.

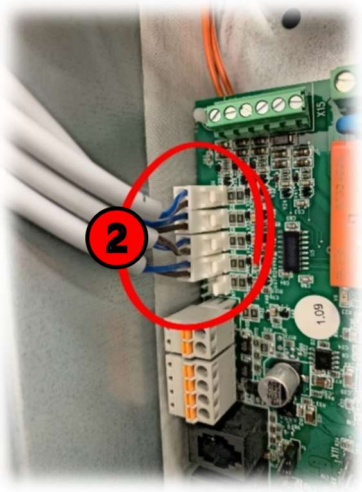


Power wires connected (3).



Connect ***the extract air sensor (1)*** *(40029223)* to the main board *(X29)*.

Connect ***the sensors (2)*** to the main board according to the markings.

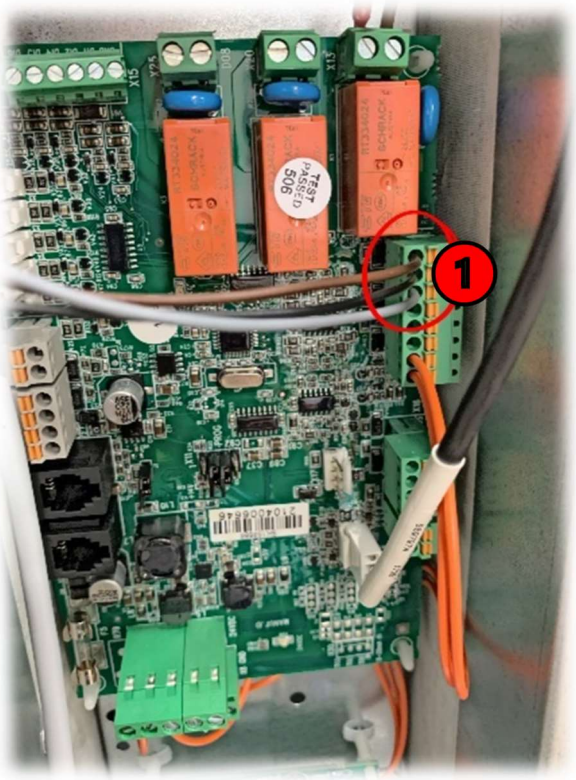


TE01: Outside air (40029167)
TE05: HRW supply air (40029165)
TE10: Supply air (40029165 / 40029168)
(to be installed in the supply air duct as the last measuring point)
- *after the water coil (ACW)*
- *after the cooling coil (ACW-CG)*
- *after the cooling coil (ACE-CG)*

TE32: Waste air (40029167)
TE45: Return water sensor (4029228),
if the unit has a water coil after heater installed.

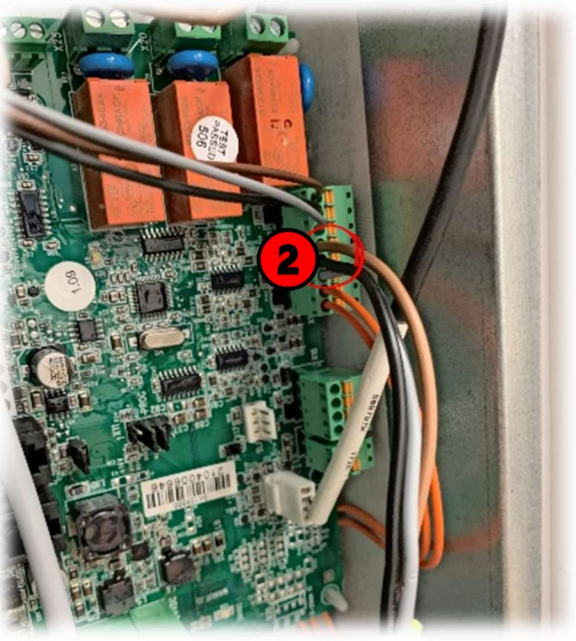
Connect ***the wires from the supply air fan control cable (1)*** *(40028784)* to the main board.

AO1: Brown
GND: Black
DI11: Gray

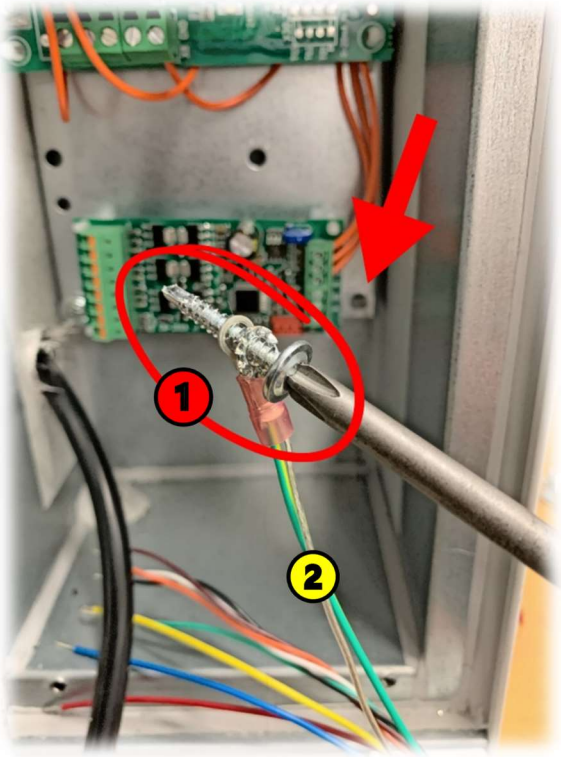


Connect ***the wires from the extract air fan control cable (2)*** *(40028802)* to the main board.

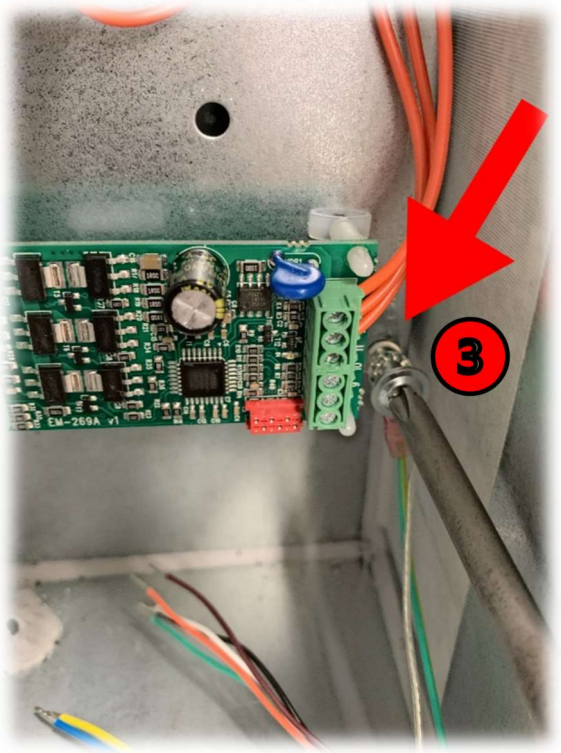
AO2: Brown
GND: Black
DI12: Gray



Release ***the screw (1)*** and attach ***the ground wire (2)*** from the HRW cable to the screw, along with ***a washer***.

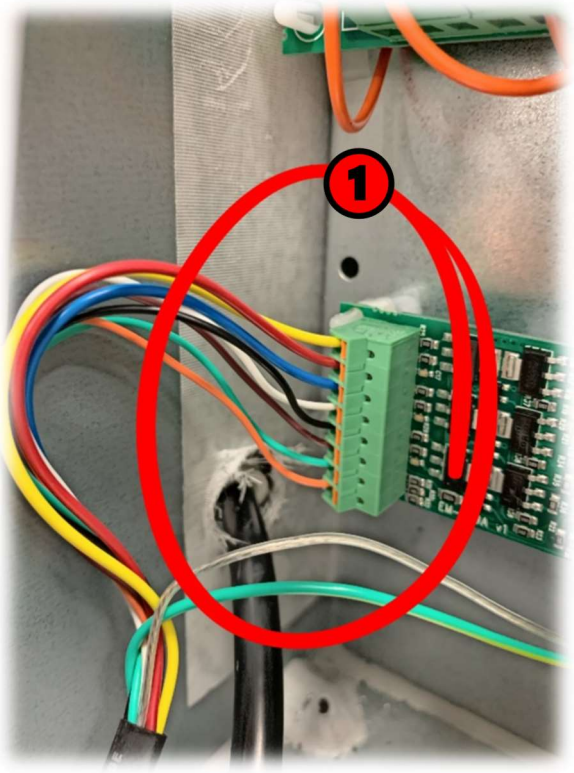


Reattach ***the screw (3)*** to the automation base.



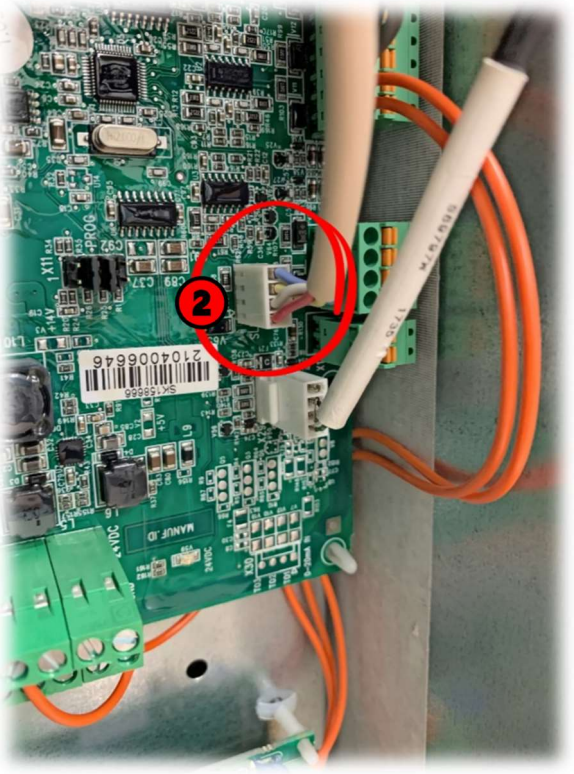
Connect ***the wires from the HRW cable*** *(40033952)*
to the HRW control board (1).

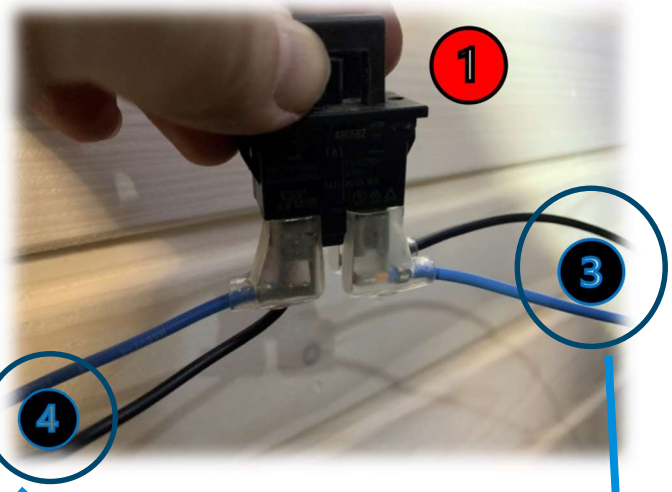
1: Yellow
2: Red
3: Blue
4: White
5: Black
6: Brown
7: Green
8: Orange



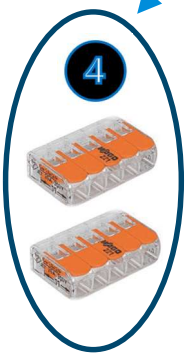
Connect ***the after heater control cable (2)***
to the main board *(X17).*
Ignore if no electrical after heater installed.

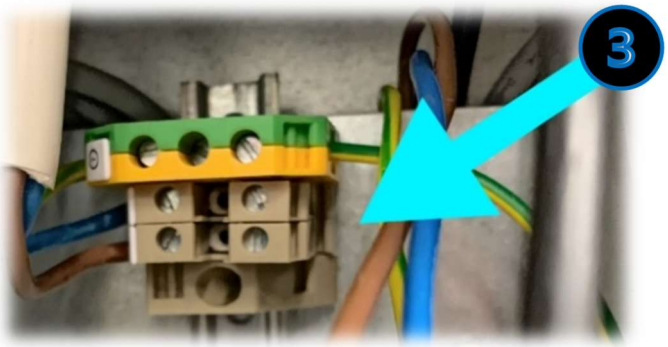
Connect other components (for example return water sensor, actuator for water coil after heater or cooling coil) according to the electrical diagrams (pages 38-41).





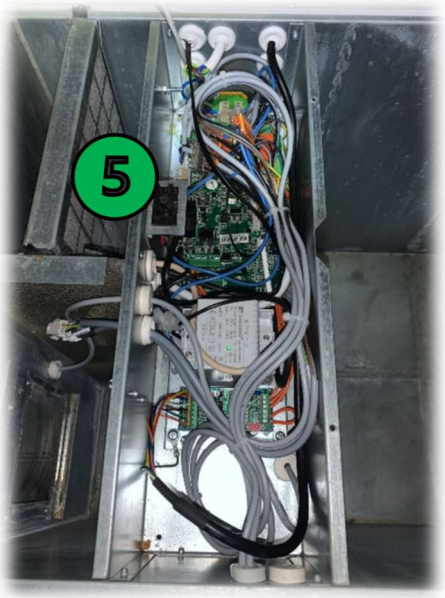
Connect the pairs of wires with flat connectors, *(40028776, 40028777)* to the ***main switch (1)***, ***install the main switch (5)*** and connect ***the wires (3 & 4)*** to ***the connection terminals (3 & 4)***.



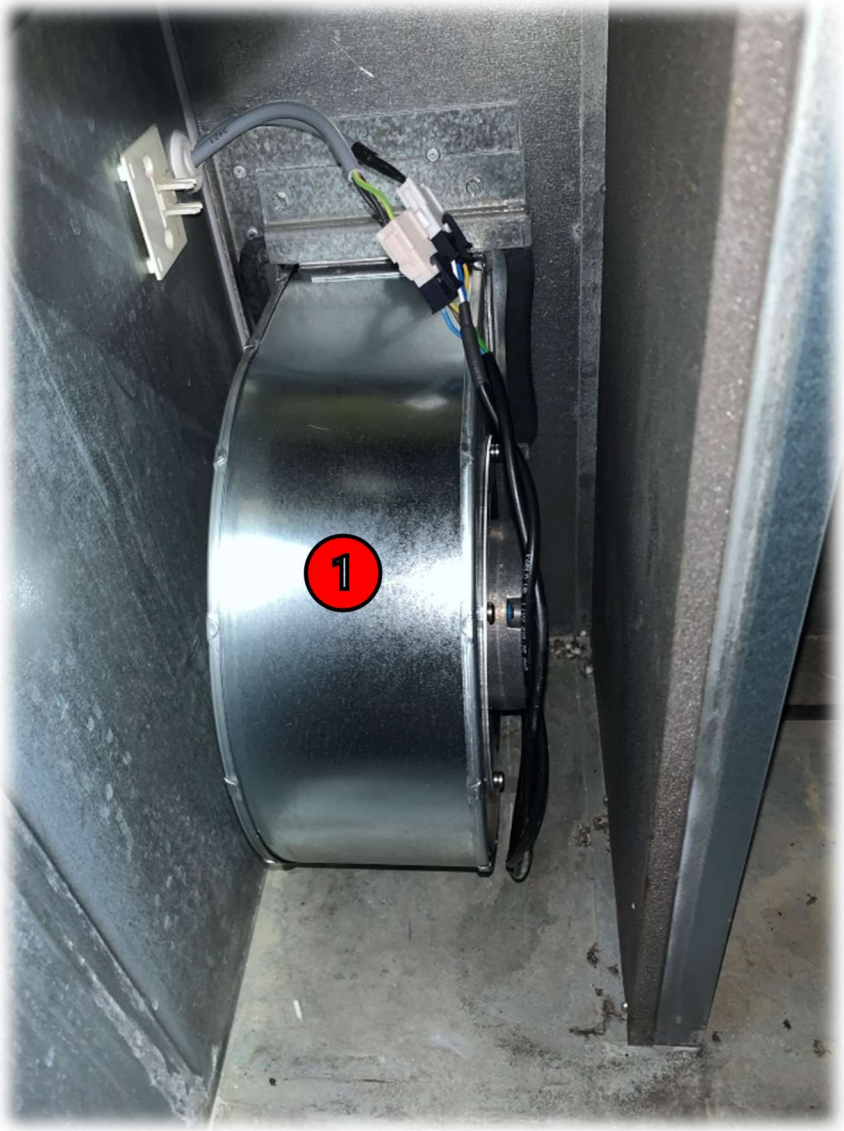


L: Black (3)
N: Blue (3)

Black connection terminal: Black (4)
Blue connection terminal: Blue (4)



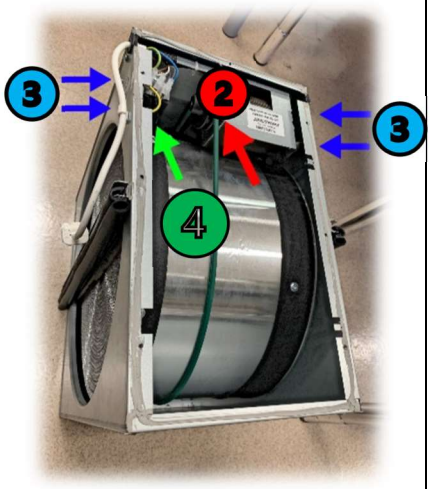
Attach the cables together with ***cable ties*** *(40030997)*.



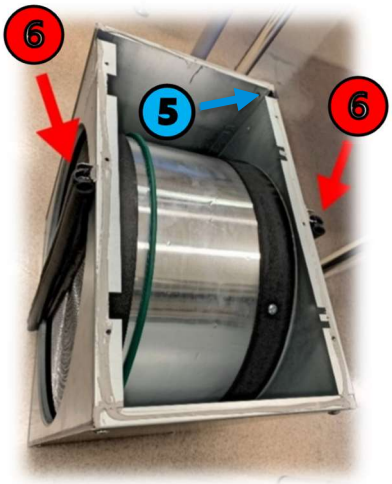
Install and connect ***the new fans (1)*** *(10023157).*

Remove ***the screws (1)*** from the HRW cover.

Remove ***the belt (2)*** from the wheel.
Remove ***the screws (3)*** from the motor package.
Remove ***the ground wire (4)***.

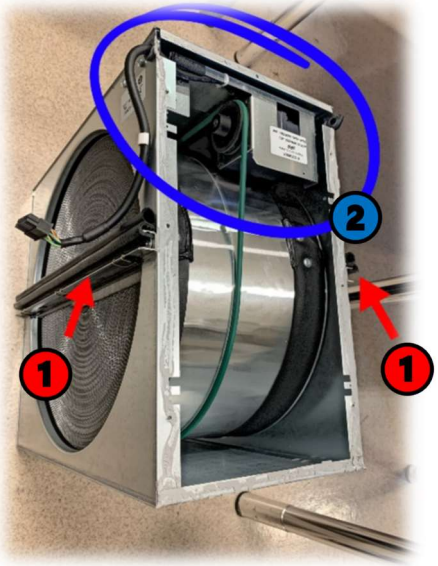


Remove ***the motor package***.
Cut ***a gap for the new motor cable (5)***.
Check that ***the brush clips (6)*** are in place.

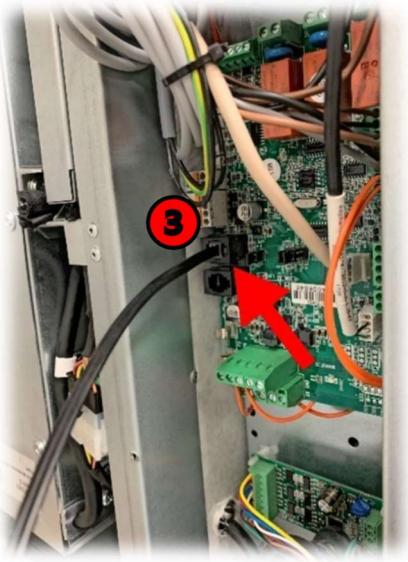


Install ***the new motor package (2)*** *(40028737)*.
Check that ***the brush clips (1)*** are in place.

Install the HRW cover.



Connect ***the new display cable (3)*** to the main board.
The old display cable may also be used, but the joints has to be done carefully and in a proper way.
Close the cover to the electrical box.



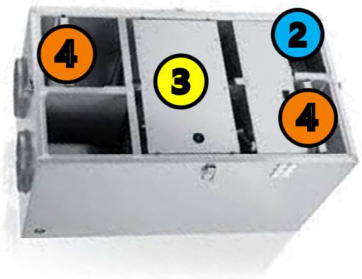
Install ***the new display (4)*** *(40031115)* in a desired place.

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

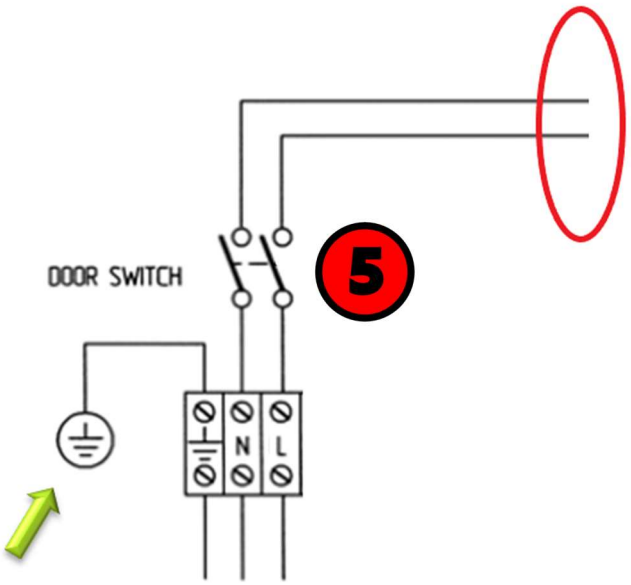
Install ***the new type plate sticker (2)***.

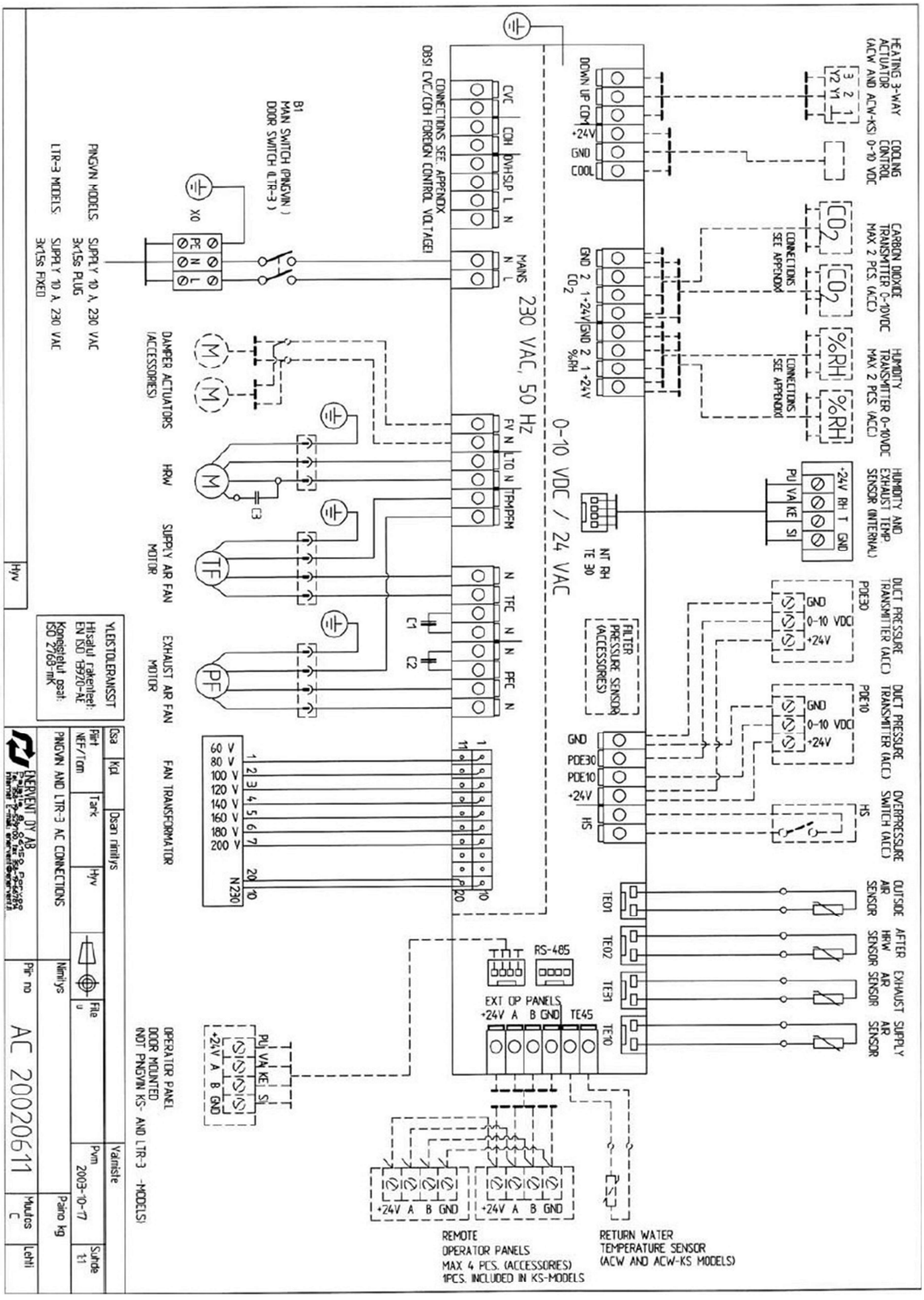
Install and connect ***the HRW (3)***.

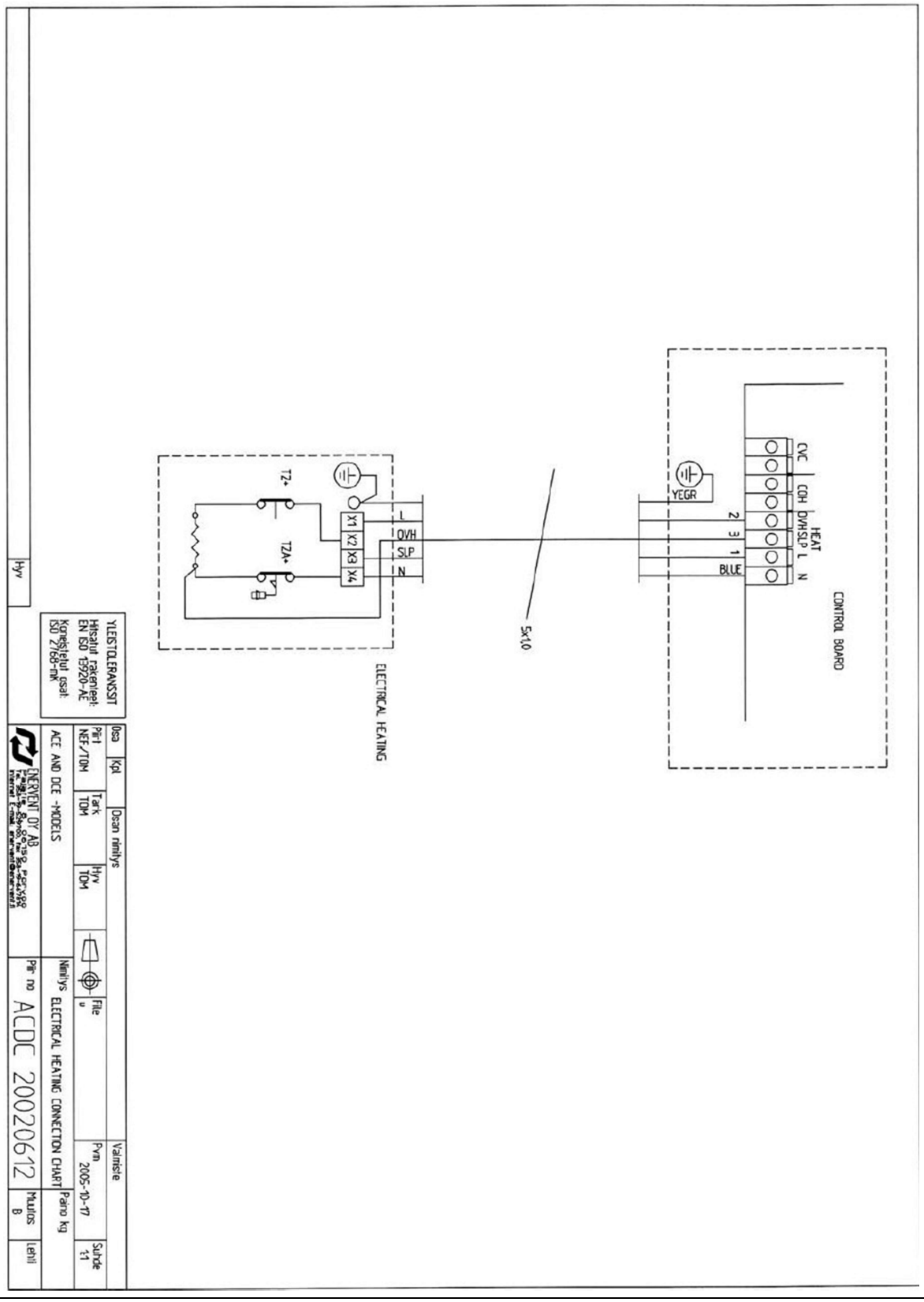
Install ***the filters (4)***.

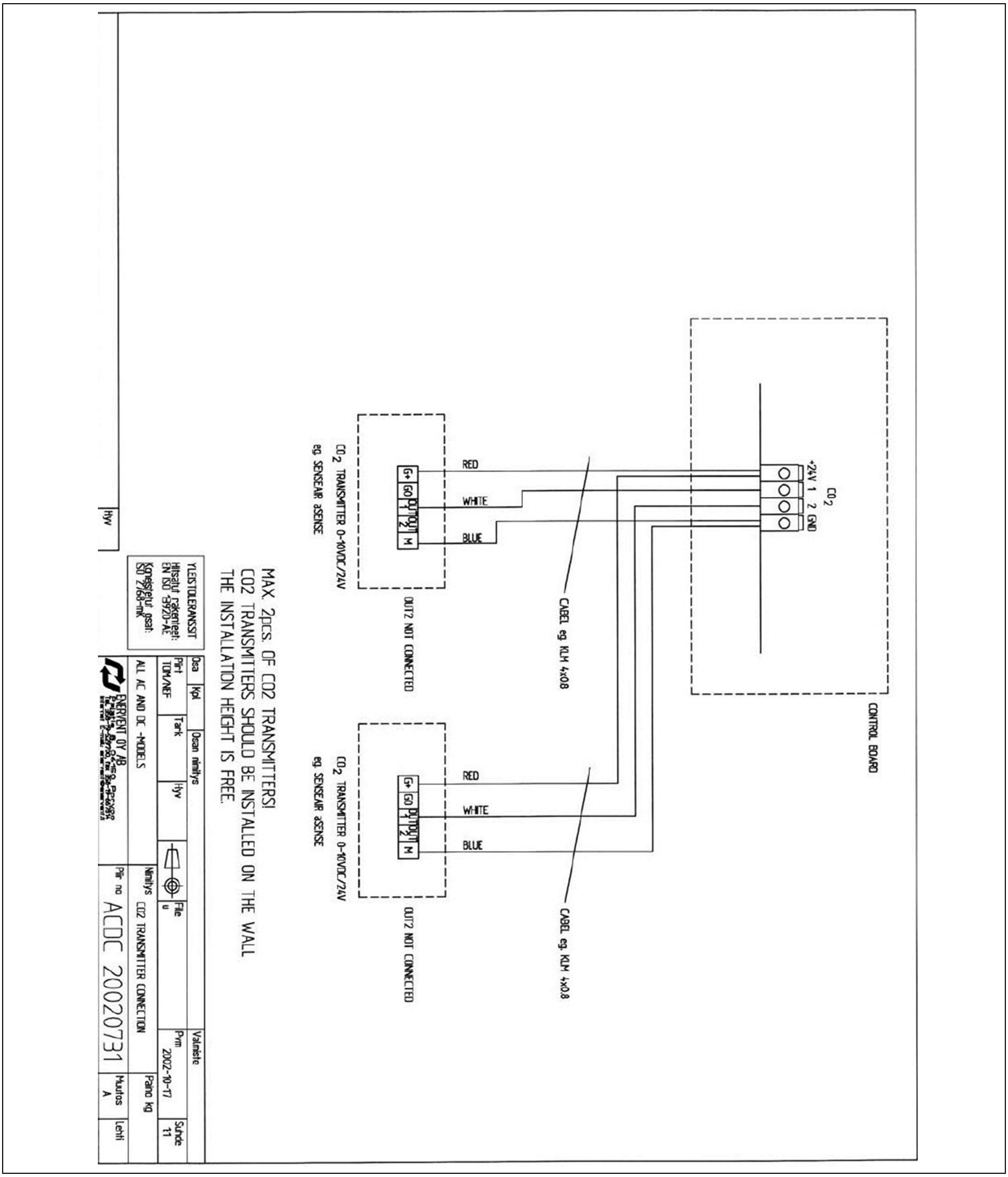


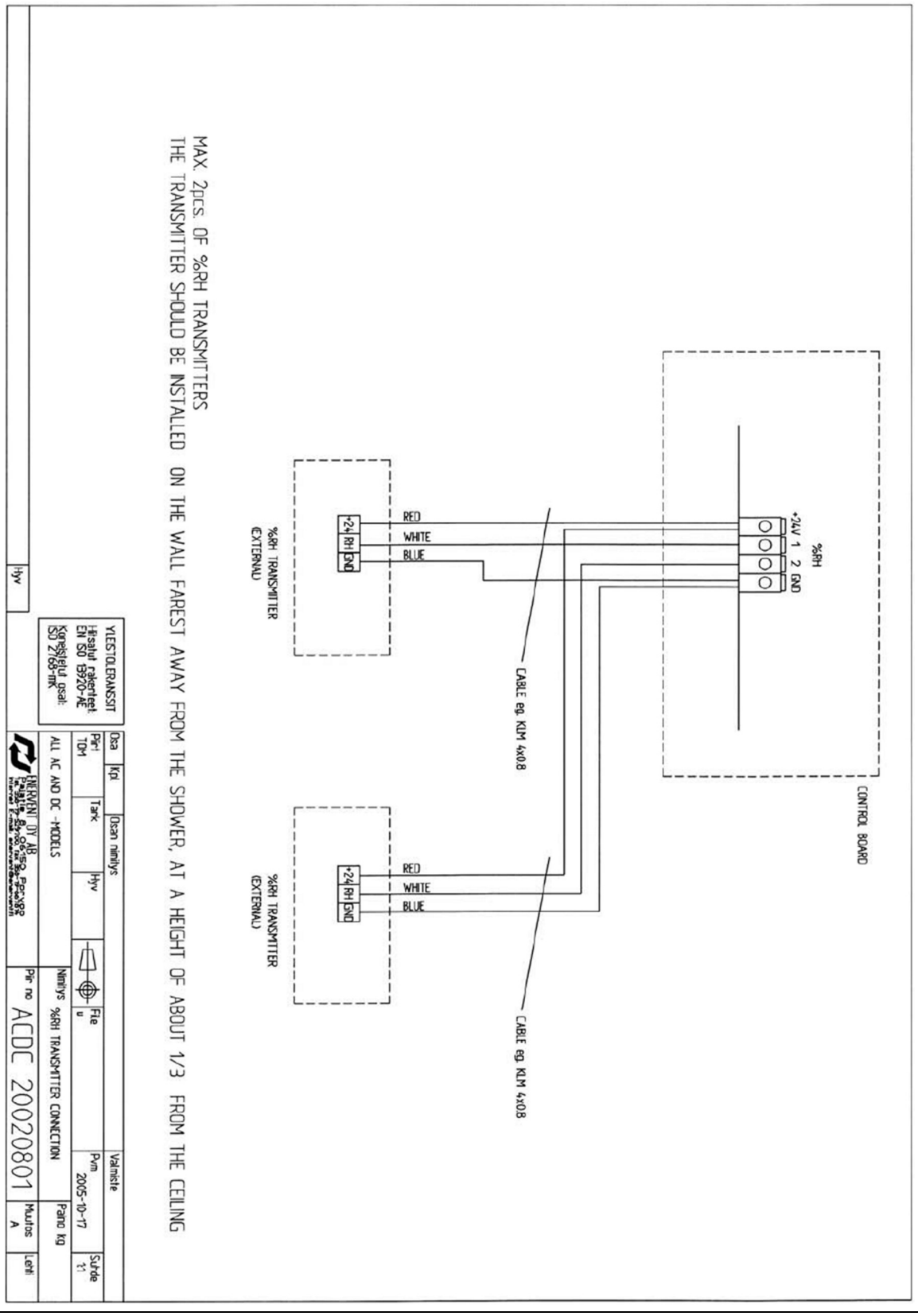
Press down ***the main switch (5)*** and perform insulation and ground continuity test according to regulations.

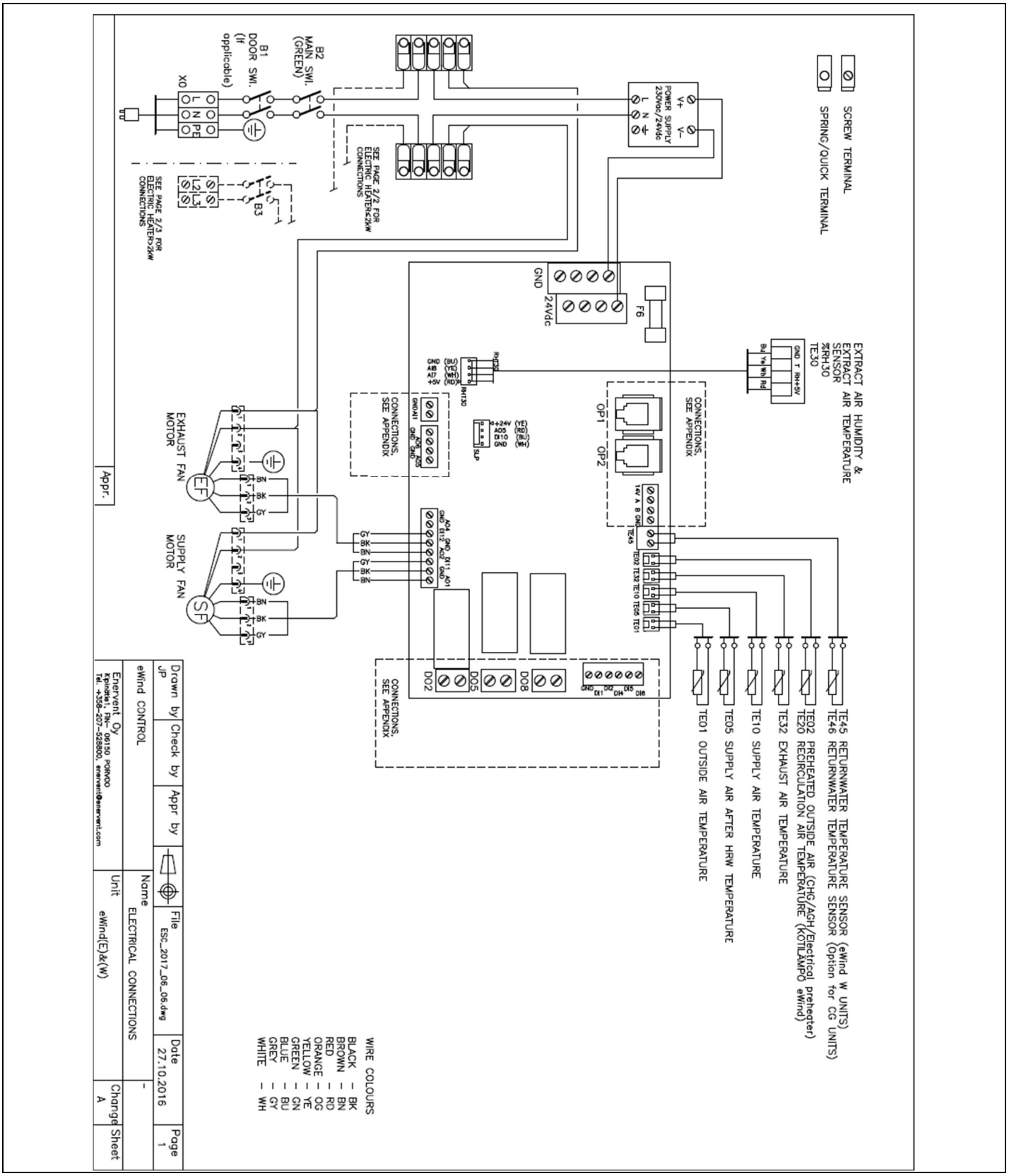


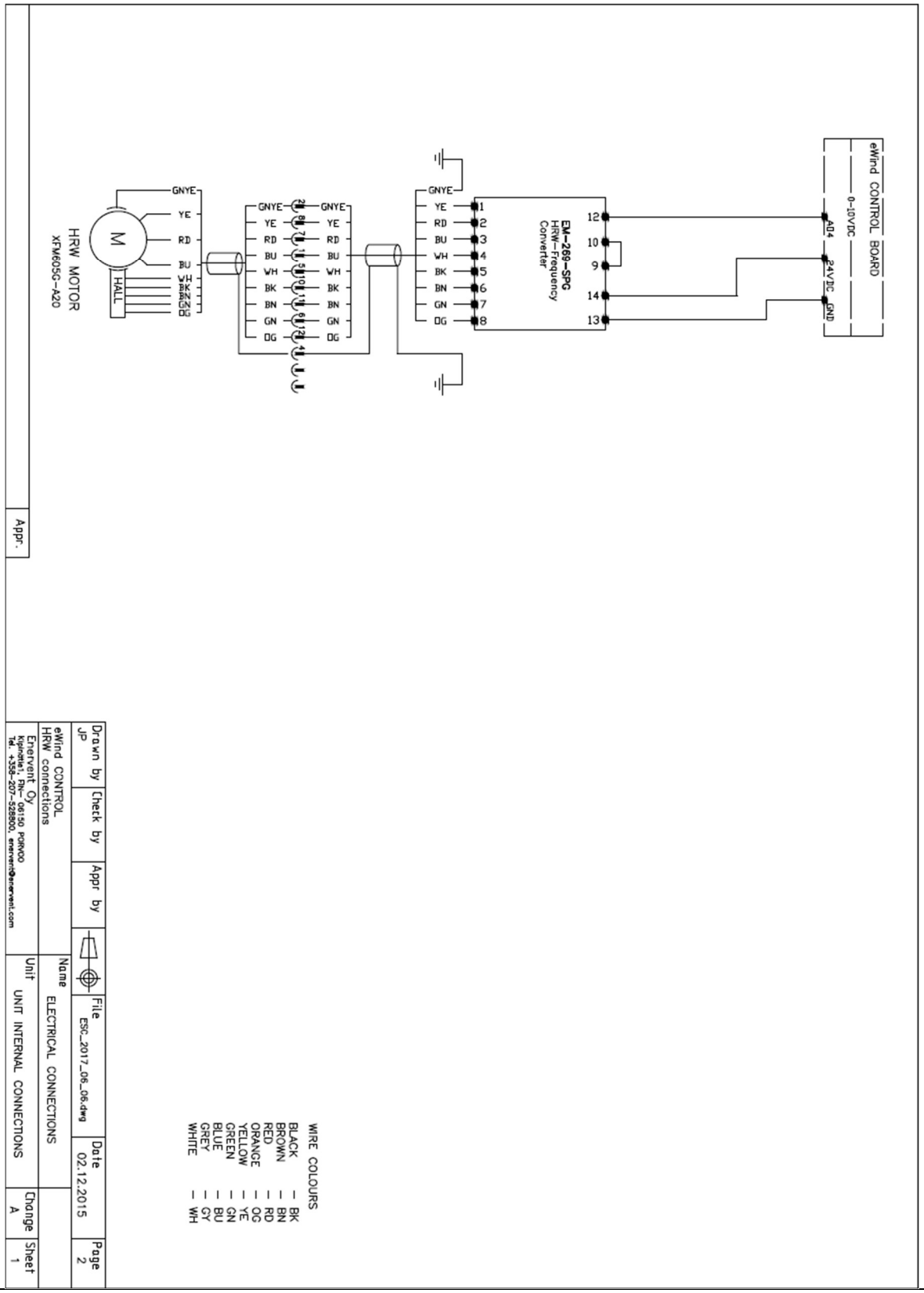

0-10 VDC / 24 VAC
230 VAC, 50 Hz
PINGVIN MODELS SUPPLY 10 A, 230 VAC 3x15s PLUG
LTR-3 MODELS: SUPPLY 10 A, 230 VAC 3x15s FIXED
B1 MAIN SWITCH (PINGVIN) DOOR SWITCH (LTR-3)
CONNECTIONS SEE APPENDIX OBS! CVC/COH FOREIGN CONTROL VOLTAGE!
DAMPER ACTUATORS (ACCESSORIES)
HRW SUPPLY AIR FAN MOTOR
EXHAUST AIR FAN MOTOR
FAN TRANSFORMATOR
HEATING 3-WAY ACTUATOR (ACW AND ACW-KS)
COOLING CONTROL 0-10 VDC
CARBON DIOXIDE TRANSMITTER 0-10VDC MAX 2 PCS. (ACC)
HUMIDITY TRANSMITTER 0-10VDC MAX 2 PCS. (ACC)
HUMIDITY AND EXHAUST TEMP. SENSOR (INTERNAL)
DUCT PRESSURE TRANSMITTER (ACC)
FILTER PRESSURE SENSOR (ACCESSORIES)
OVERPRESSURE SWITCH (ACC)
OUTSIDE AIR SENSOR
AFTER HRW SENSOR
EXHAUST AIR SENSOR
SUPPLY AIR SENSOR
RS-485
EXT OP PANELS
REMOTE OPERATOR PANELS MAX 4 PCS. (ACCESSORIES) 1PCS. INCLUDED IN KS-MODELS
RETURN WATER TEMPERATURE SENSOR (ACW AND ACW-KS MODELS)
OPERATOR PANEL DOOR MOUNTED (NOT PINGVIN KS- AND LTR-3 -MODELS)
PINGVIN AND LTR-3 AC CONNECTIONS
AC 20020611

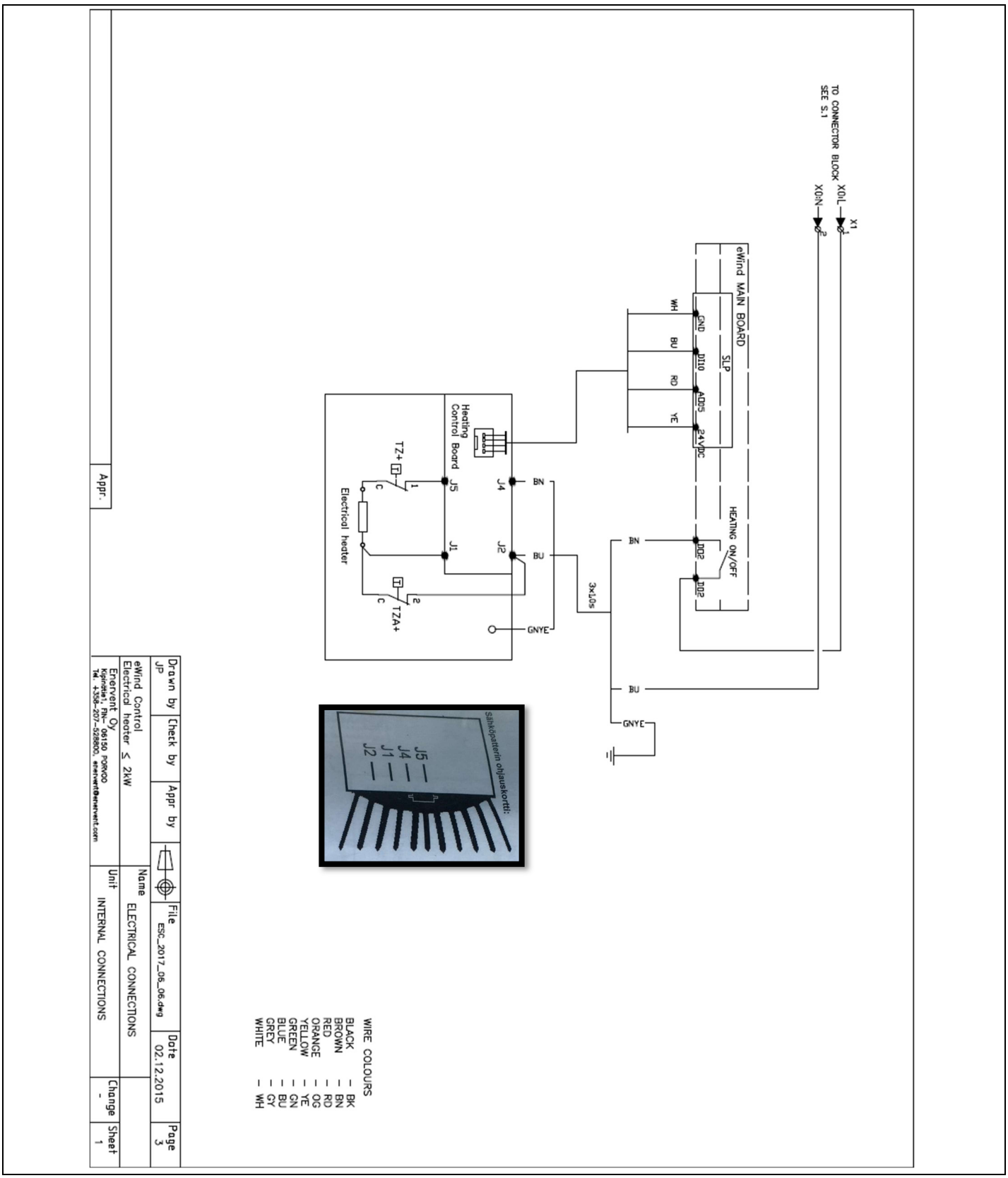

CONTROL BOARD
CVC
COH
DVH
SLP
L
N
HEAT
YEGR
2
3
1
BLUE
5x1.0
T2+
T2+
X1
X2
X3
X4
DVH
SLP
N
ELECTRICAL HEATING
YLEISTOLERANSSIT
Hitsatut rakenteet
EN ISO 13920-AE
Koneistetut osat
ISO 2768-mK
Hyv
Osa
Kpl
Osan nimitys
Piir!
NEF/TDM
Tark
TDM
Hyv
TDM
ENERVENT OY AB
ACE AND DCE -MODELS
Nimitys
ELECTRICAL HEATING CONNECTION CHART
Piir no
ACDC 20020612
Muutos
B
Paino kg
Pvm
2005-10-17
Suhde
1:1
Valmiste
Lehti

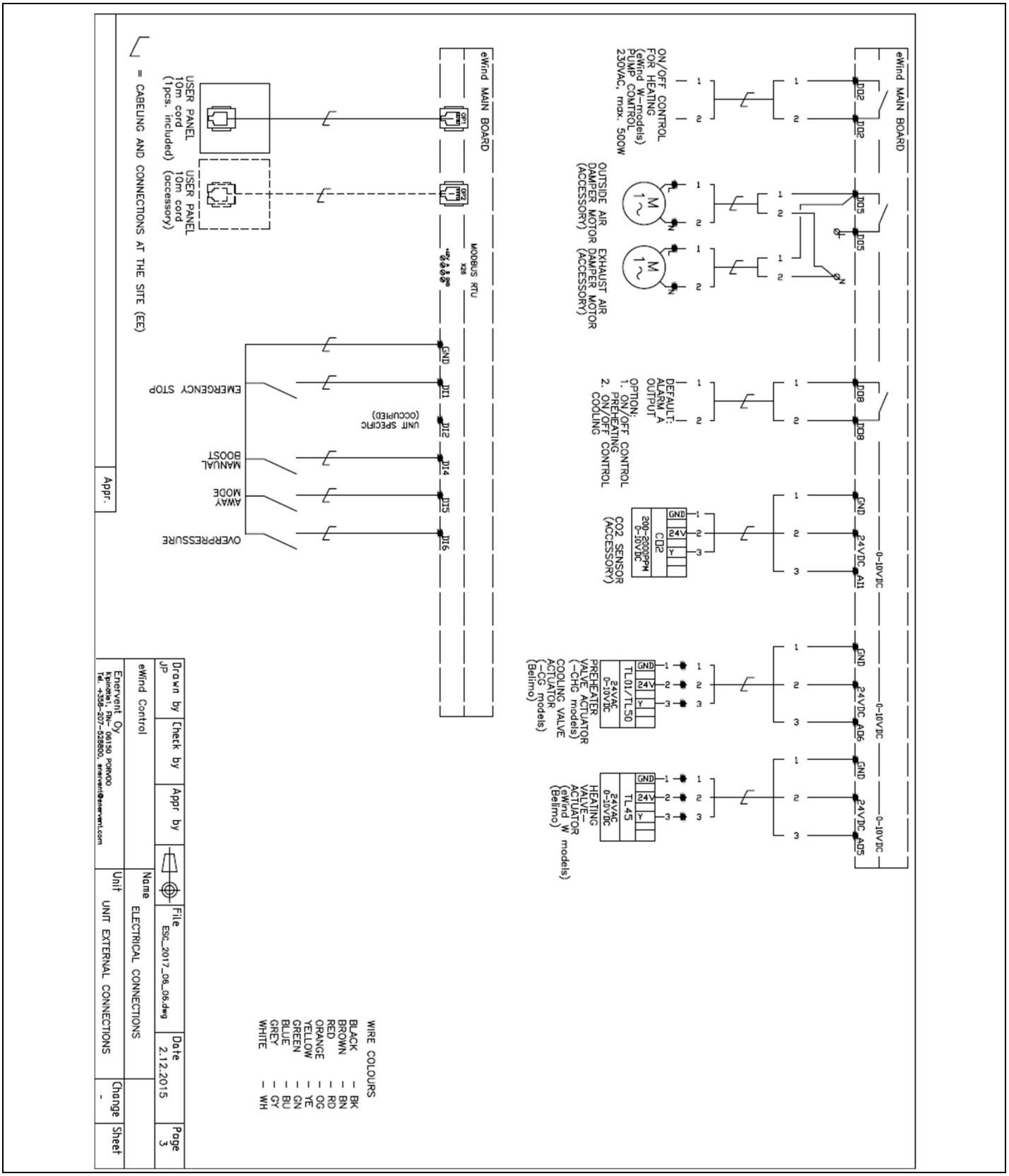

MAX. 2pcs. OF CO2 TRANSMITTERS!
CO2 TRANSMITTERS SHOULD BE INSTALLED ON THE WALL
THE INSTALLATION HEIGHT IS FREE.
CO2 TRANSMITTER 0-10VDC/24V
eg SENSEAIR aSENSE
OUT2 NOT CONNECTED
RED
WHITE
BLUE
CABEL eg KLM 4x0.8
CO2
+24V 1 2 GND
CONTROL BOARD
ALL AC AND DC -MODELS
ENERVENT OY AB
CO2 TRANSMITTER CONNECTION
2002-10-17
ACDC 20020731


MAX. 2pcs. OF %RH TRANSMITTERS
THE TRANSMITTER SHOULD BE INSTALLED ON THE WALL FAREST AWAY FROM THE SHOWER, AT A HEIGHT OF ABOUT 1/3 FROM THE CEILING
CONTROL BOARD
%RH
+24V 1 2 GND
%RH TRANSMITTER (EXTERNAL)
+24 RH GND
RED
WHITE
BLUE
CABLE eg KLM 4x0.8
%RH TRANSMITTER (EXTERNAL)
+24 RH GND
RED
WHITE
BLUE
CABLE eg KLM 4x0.8
YLEISTOLERANSSIT
Hitsalut rakenteet
EN ISO 13920-AE
Koneistetut osat
ISO 2768-mK
Osa
Kpl
Osan nimitys
Piir!
TDM
Tark
Hyv
Flie
u
Valmiste
Pvm
2005-10-17
Suhde
1:1
ALL AC AND DC - MODELS
Nimitys %RH TRANSMITTER CONNECTION
Piir no ACDC 20020801
Piirro kg
Muutos
A
Lehti
Hyv


SCREW TERMINAL
SPRING/QUICK TERMINAL
EXTRACT AIR HUMIDITY & TEMPERATURE SENSOR TE30 %RH30
TE45 RETURNWATER TEMPERATURE SENSOR (eWind W UNITS)
TE46 RETURNWATER TEMPERATURE SENSOR (Option for CG UNITS)
TE20 PREHEATED OUTSIDE AIR (CHG/AGH/Electrical preheater)
TE20 RECIRCULATION AIR TEMPERATURE (KOTILAMPO eWind)
TE32 EXHAUST AIR TEMPERATURE
TE10 SUPPLY AIR TEMPERATURE
TE05 SUPPLY AIR AFTER HRW TEMPERATURE
TE01 OUTSIDE AIR TEMPERATURE
WIRE COLOURS
BLACK – BK
BROWN – BN
RED – RD
ORANGE – OG
YELLOW – YE
GREEN – GN
BLUE – BU
GREY – GY
WHITE – WH
EXHAUST FAN MOTOR
SUPPLY FAN MOTOR
B1 DOOR SWI. (If applicable)
B2 MAIN SWI. (GREEN)
B3
X0
POWER SUPPLY 230Vac/24Vdc
GND 24Vdc
F6
OP1
OP2
CONNECTIONS, SEE APPENDIX
SEE PAGE 2/2 FOR ELECTRIC HEATER<2kW CONNECTIONS
SEE PAGE 2/3 FOR ELECTRIC HEATER>2kW CONNECTIONS
Appr.
Drawn by JP
Check by
Appr by
File ESC_2017_06_06.dwg
Date 27.10.2016
Page 1
Name ELECTRICAL CONNECTIONS
Unit eWind(E)&(W)
Change A
Sheet
eWind CONTROL
Enervent Oy
Kipinätie 1, FIN- 06150 PORVOO
Tel. +358-207-528800, enervent@enervent.com


eWind CONTROL BOARD
0-10VDC
AO4
24VDC
GND
EM-269-SPG
HRW-Frequency
Converter
HRW MOTOR
XFM605G-A20
HALL
GNYE
YE
RD
BU
WH
BK
BN
GN
OG
WIRE COLOURS
BLACK — BK
BROWN — BN
RED — RD
ORANGE — OG
YELLOW — YE
GREEN — GN
BLUE — BU
GREY — GY
WHITE — WH
Appr.
Drawn by JP
Check by
Appr by
File ESC_2017_05_06.dwg
Name ELECTRICAL CONNECTIONS
Unit UNIT INTERNAL CONNECTIONS
Date 02.12.2015
Change A
Sheet 1
Page 2
eWind CONTROL
HRW connections
Enervent Oy
Kipinätie 1, FIN-06150 PORVOO
Tel. +358-207-528500, enervent@enervent.com


TO CONNECTOR BLOCK
SEE S.1
X0:L
X0:N
X1
eWind MAIN BOARD
SLP
GND
DI10
AO:5
24VDC
WH
BU
RD
YE
HEATING ON/OFF
DO2
BN
BU
GNYE
3x1,0s
Heating Control Board
J5
J4
J1
J2
TZ+
TZA+
Electrical heater
Sähköpatterin ohjauskortti:
WIRE COLOURS
BLACK – BK
BROWN – BN
RED – RD
ORANGE – OG
YELLOW – YE
GREEN – GN
BLUE – BU
GREY – GY
WHITE – WH
Appr.
Drawn by JP
Check by
Appr by
File ESC_2017_06_06.dwg
Date 02.12.2015
Page 3
Name ELECTRICAL CONNECTIONS
Unit INTERNAL CONNECTIONS
Change -
Sheet 1
eWind Control
Electrical heater ≤ 2kW
Enervent Oy
Kipinätie 1, FIN- 06150 PORVOO
Tel. +358-207-528800, enervent@enervent.com


eWind MAIN BOARD
ON/OFF CONTROL FOR HEATING (eWind W-models) PUMP CONTROL 230VAC, max. 500W
OUTSIDE AIR DAMPER MOTOR (ACCESSORY)
EXHAUST AIR DAMPER MOTOR (ACCESSORY)
DEFAULT: ALARM A OUTPUT
OPTION: 1. ON/OFF CONTROL PREHEATING 2. ON/OFF CONTROL COOLING
CO2 SENSOR (ACCESSORY)
200-2000PPM 0-10VDC
PREHEATER VALVE ACTUATOR (-CHG models)
COOLING VALVE ACTUATOR (-CG models) (Belimo)
HEATING VALVE ACTUATOR (eWind W models) (Belimo)
TL01/TL50
TL45
24VAC 0-10VDC
0-10VDC
24VDC
USER PANEL 10m cord (1pcs. included)
USER PANEL 10m cord (accessory)
MODBUS RTU
EMERGENCY STOP
UNIT SPECIFIC (OCCUPIED)
MANUAL BOOST
AWAY MODE
OVERPRESSURE
= CABELING AND CONNECTIONS AT THE SITE (EE)
WIRE COLOURS
BLACK – BK
BROWN – BN
RED – RD
ORANGE – OG
YELLOW – YE
GREEN – GN
BLUE – BU
GREY – GY
WHITE – WH
Appr.
Drawn by JP
Check by
Appr by
File ESC_2017_06_06.dwg
Date 2.12.2015
Page 3
Name ELECTRICAL CONNECTIONS
Unit UNIT EXTERNAL CONNECTIONS
Change -
Sheet
eWind Control
Enervent Oy
Kipinätie 1, FIN-06150 PORVOO
Tel. +358-207-528800, enervent@enervent.com

MANDATORY PARTS

10024026	**CONTROL UPDATE KIT LTR3 ACE/ECE → EWIND E**	**1**
10023157	**FAN PACKAGE ECO 118W**	**2**
10023290	**ELECTRICAL HEATER 0,5kW**	**1**

Code	Description	Pcs.
10024026	***CONTROL UPDATE KIT LTR3 ACE/ECE → EWIND E***	
	Automation	
40029189	Control board EM-240-M	1
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	Terminal marking PMC SB 5/50 So ERDE	1
40029329	Terminal marking PMC SB 5/50 So L	1
40029327	Terminal marking PMC SB 5/50 FW N	1
40029647	Automation base	1
	Components	
40030100	Cable sealing VET 5-7	10
40029244	Cable sealing PMR 615 AVL140	8
40028782	Fan power cable supply air	1
40028803	Fan power cable extract air	1
40028784	Fan control cable supply air	1
40028802	Fan control cable extract air	1
40029167	EDA temperature sensor 1700mm	2
40029165	EDA temperature sensor 850mm	2
40029223	Humidity/temperature sensor Amphenol 350mm	1
40029982	Connection terminal WaGo 221-415	2
40031530	Screw ZN 4,2x25	4
40028776	Wire 250mm black (wire with flat connector)	2
40028777	Wire 250mm blue (wire with flat connector)	2
40028774	Wire 255mm 1mm2 black	1
40031537	Washer 6798-A ZN M4x8	1
40031489	Nut DIN 934/8 ZN M4	1
40030997	Cable tie 2,5x200mm	10
40028737	HRW motor package stepless DC	1
40033952	Rotor cable DC 105cm	1
40031115	eWind panel package	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

10024025	CONTROL UPDATE KIT LTR-3 ACW → EWIND W	1
10023157	FAN PACKAGE ECO 118W	2

Code	Description	Pcs.
10024025	*CONTROL UPDATE KIT LTR-3 ACW → EWIND W*	
	Automation	
40029189	Control board EM-240-M	1
40030936	PCB support KGLS-65	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	Terminal marking PMC SB 5/50 So ERDE	1
40029329	Terminal marking PMC SB 5/50 So L	1
40029327	Terminal marking PMC SB 5/50 FW N	1
40029647	Automation base	1
	Components	
40030100	Cable sealing VET 5-7	5
40029244	Cable sealing PMR 615 AVL140	8
40028782	Fan power cable supply air	1
40028803	Fan power cable extract air	1
40028784	Fan control cable supply air	1
40028802	Fan control cable extract air	1
40029168	EDA temperature sensor 3000mm	1
40029167	EDA temperature sensor 1700mm	2
40029165	EDA temperature sensor 850mm	1
40029228	Return water sensor, surface	1
40029223	Humidity/temperature sensor Amphenol 350mm	1
40029982	Connection terminal WaGo 221-415	2
40031530	Screw ZN 4,2x25	4
40028776	Wire 250mm black (wire with flat connector)	2
40028777	Wire 250mm blue (wire with flat connector)	2
40028774	Wire 255mm 1mm2 black	1
40031537	Washer 6798-A ZN M4x8	1
40031489	Nut DIN 934/8 ZN M4	1
40030997	Cable tie 2,5x200mm	10
40028737	HRW motor package stepless DC	1
40033952	Rotor cable DC 105cm	1
40031115	eWind panel package	1
40034288	WiFi module package	1
40034505	Valve actuator TR24-SR	1
	Manuals etc. (depends on model)	
	eWind installation manual	1
	eWind user manual	1
	eWind electrical diagrams	1

Notes: