Zehnder
Salla Compact eWind

Installer manual

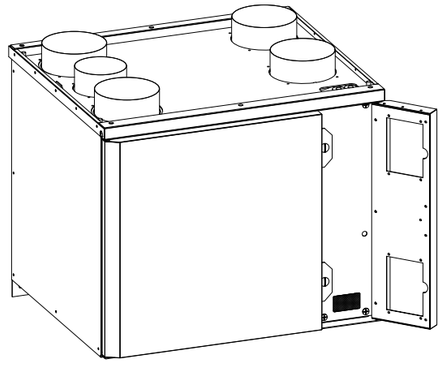
Table of Contents

1. Read first

This instruction manual is intended for all the persons involved in the installation of the Zehnder ventilation units. Only qualified professionals may install the equipment described in this manual in accordance with the instructions in this manual and the local laws and regulations. If the instructions provided in this manual are not followed, the warranty for the equipment becomes void and damages may be caused to persons or property.
The equipment described in this manual may not be used by persons (including children) with reduced physical, sensory or mental capacity or without sufficient experience or knowledge, unless a person responsible for their safety is supervising and advising them in the use of the equipment.

For your information
If the delivery does not contain all of the components listed in the section 'Contents of the delivery', please check the order and contact your distributor or Enervent before commencing installation.

2. Type plate



Enervent Zehnder Oy
Kipinätie 1
FI-06150 PORVOO
P022120002

10023631

Salla Compact eWind

CE

230 V | 4.2 A | IP44 | 50 HZ | 750 W

Serial-No. **004154448901**

Prod **29.08.2025**

If you need technical support, please check the equipment type and serial number from the type plate.

The following pictograms are used:

Symbol	Meaning
	Important note
	Risk of personal injury

3. Safety

3.1. General information

Always check that the supply voltage to the equipment is switched off before opening the service hatch.

In case of a malfunction, always determine the reason for the malfunction before restarting the unit.

When you have switched off the power to the unit, wait for two (2) minutes before starting the maintenance work. Even though the power is switched off, the fans continue running and the post-heating coil remains hot for a while.

3.2. Electrical safety

Only an authorised electrician may open the electrical box.

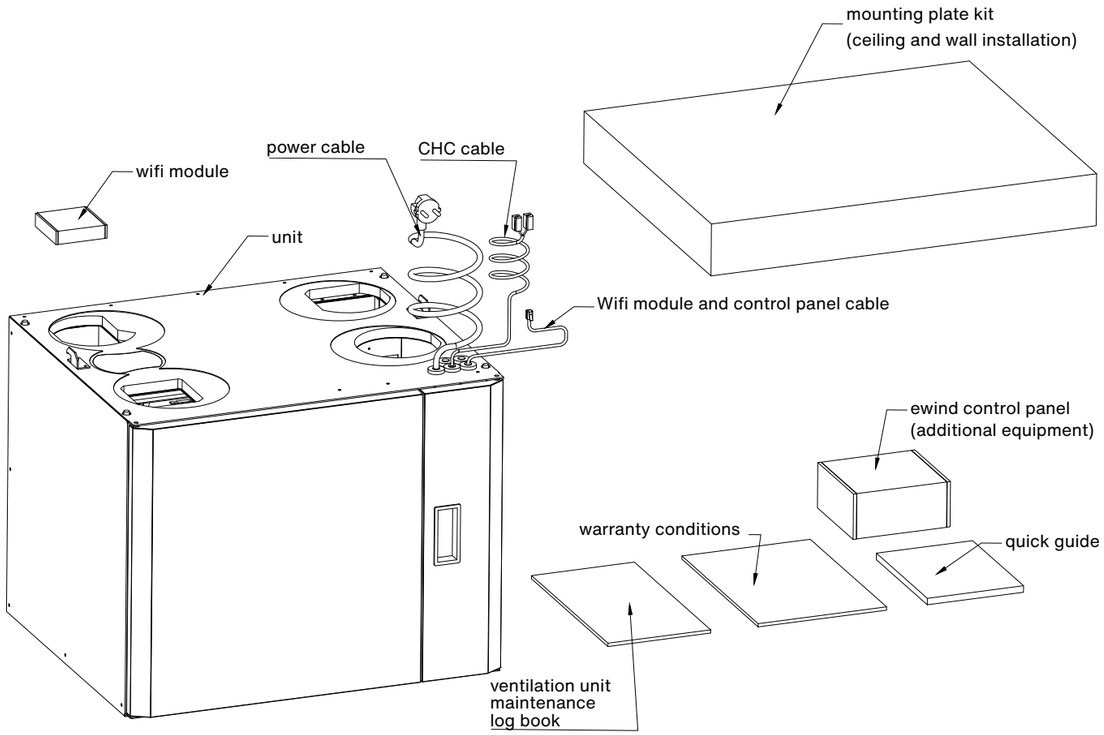
Follow the local regulations on electrical installations.

Check that the unit is completely isolated from the mains supply before conducting any voltage tests, insulation resistance measurements or other electrical work or measurements. Such work may damage the sensitive electrical equipment.

Control equipment used in the ventilation units may cause leakage current. This may affect the operation of the residual current protection.

All ventilation units containing a control system must be equipped with an overvoltage protector.

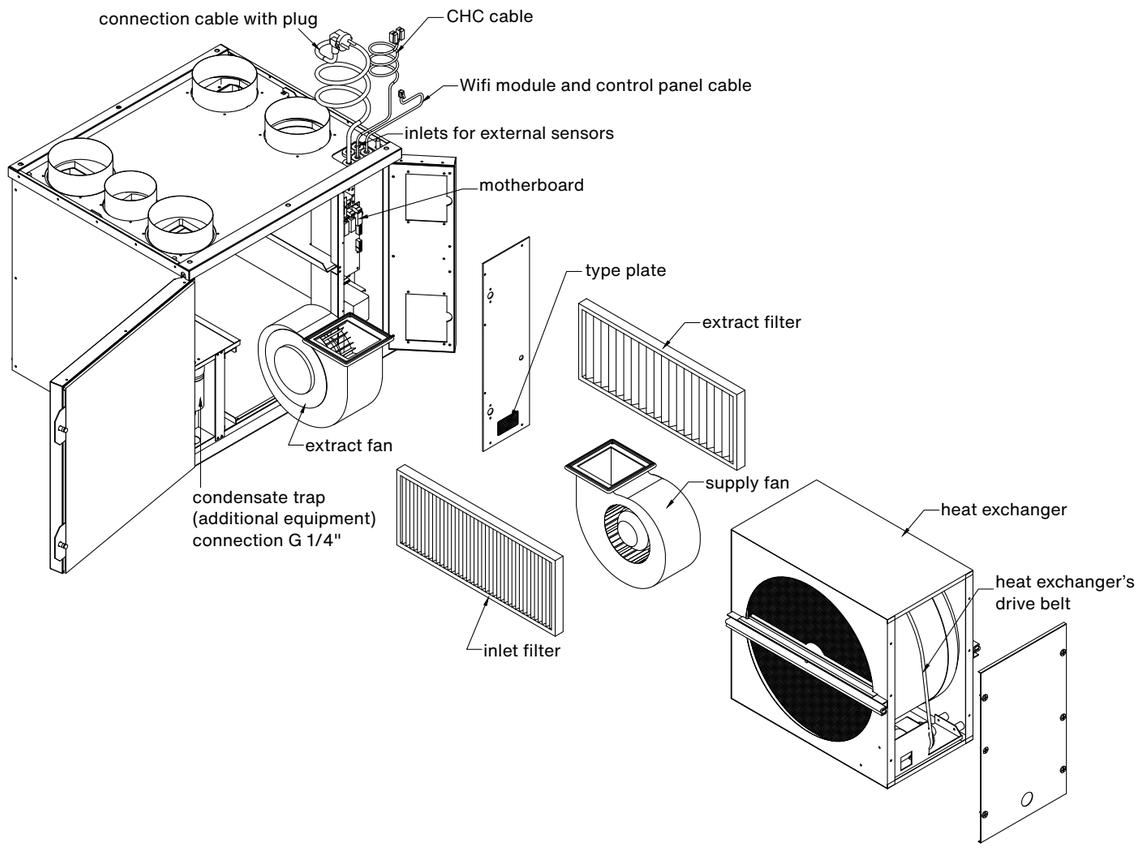
4. Contents of the delivery



4.1. Available accessories

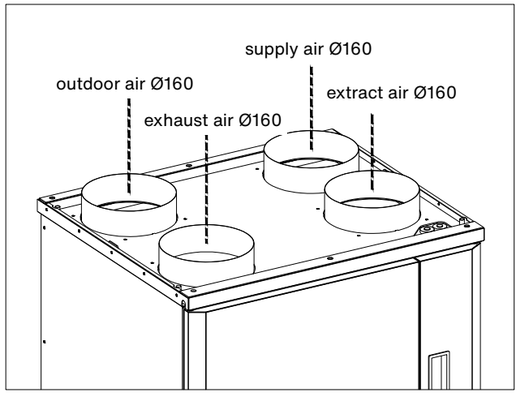
Product number	Product name
471011015	Range hood Premium white
471011045	eWind controller. The package contains a controller, surface mounting box and a 10-metre cable
471010975	CO2 carbon dioxide transmitter for the room 0–10 V/24 V
471010974	%RH humidity transmitter 0–10 V/24 V
471010264	Humidity transmitter duct mounted KLK100
471011048	Overpressure push button 'fireplace switch'/boost
471010382	KNX bus adapter
471010997	Water trap Enervent Salla Compact

5. Technical specifications of the unit

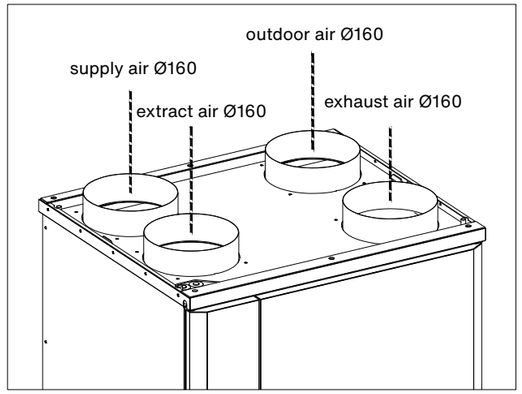


Width	580 mm
Depth	498 mm
Height	483 mm
Weight	55 kg
Duct connection (duct size)	Ø 160 mm
Duct connection (duct size) CHC	Ø 125 mm
Range hood connection (duct size) CHC	Ø 100 mm
Fans	supply 118 W, 1.0 A; exhaust 118 W, 1.0 A
Heat exchanger motor with thermal protection	5 W, 0.04 A
Power of electric post-heating coil in E-models	400 W/230 V, 1~/50 Hz/1.74 A
Input power, E-model (post-heating coil)	641 W/230 V, 1~/50 Hz/3.78 A
Circuit breaker	B10 A
Mains supply	230 V, 1~/50 Hz/10 A

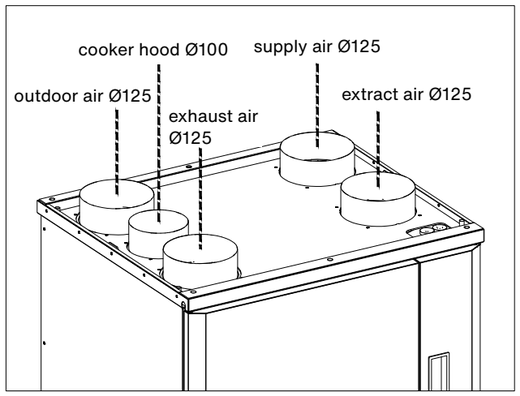
5.1. Duct connections



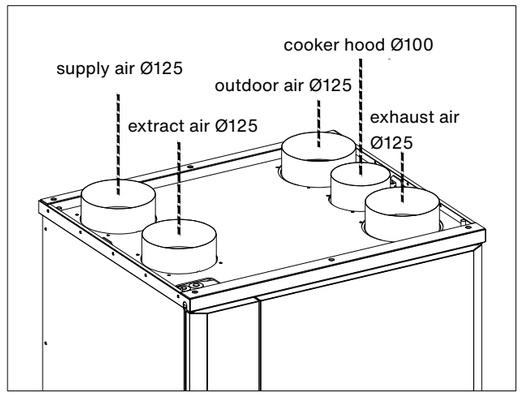
right-handed 4-duct



left-handed 4-duct



right-handed 5-duct



left-handed 5-duct

5.2. Checking the handedness in the type plate

Right-handed 4-duct

Enervent Zehnder Oy
Kipinätie 1
FI-06150 PORVOO
P022120002
10023631
Salla Compact eWind E RIGHT
230 V 4.2 A IP44 50 HZ 750 W
Serial-No. **004154448901**
Prod **29.08.2025**

Left-handed 4-duct

Enervent Zehnder Oy
Kipinätie 1
FI-06150 PORVOO
P022120002
10023631
Salla Compact eWind E LEFT
230 V 4.2 A IP44 50 HZ 750 W
Serial-No. **004154448901**
Prod **29.08.2025**

6. Before installation

6.1. Choosing the installation location

Ensure that the ventilation system has been designed and realised in accordance with the building regulations.

We recommend that the unit be installed in the technical facility.

Do not install the unit in a room where the temperature and humidity are high. Under certain conditions, condensation may occur on the outer surface of the unit.

Take the noise level of the unit into account when choosing the installation location.

Install the unit on a soundproof wall, if possible.

Do not install the ventilation unit directly outside the bedroom, as the unit is never completely silent, although it is quiet.

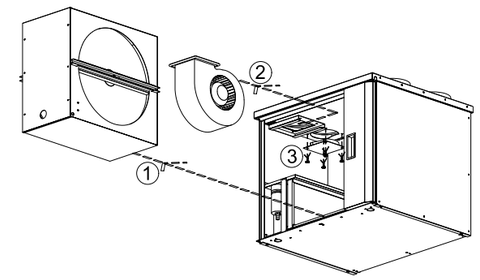
Install an insulation plate behind the ventilation unit, or try to prevent the sound from being conducted to the structure by other means. Using soft foam sheets is recommended (not included in the delivery).

Ensure that connecting the condensation water discharge pipe and water trap is possible. Remember to take the space required by the condensation water connection into account.

Install the unit in a warm room (over +5°C).

Ensure that at least 500 mm of free space is left in front of and at least 80 mm of free space is left below the unit for maintenance purposes.

In case the cooker hood connection is going to be used then the plug must be removed first.



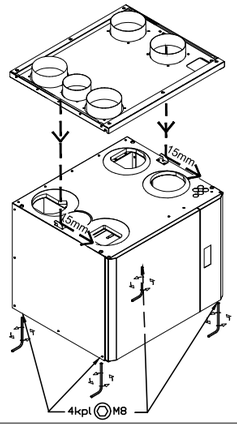
Would you like to know more?
If you would like to know more about the construction of ventilation systems and the insulation of ventilation ducts, you can read about them on our website at **www.enervent.com.**

7. Installation

7.1. Wall installation

For your information
Check before the installation of the ventilation unit that there are no foreign objects in the ventilation unit or ductwork.

1



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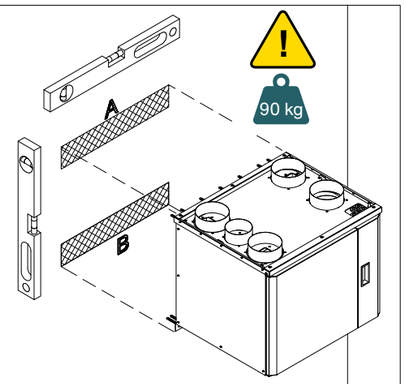

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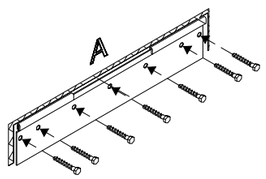

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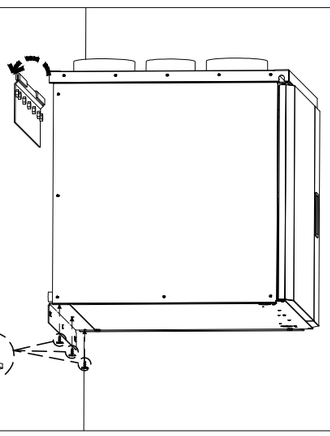

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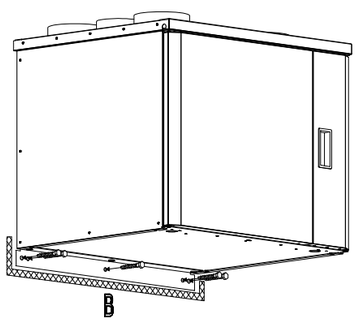

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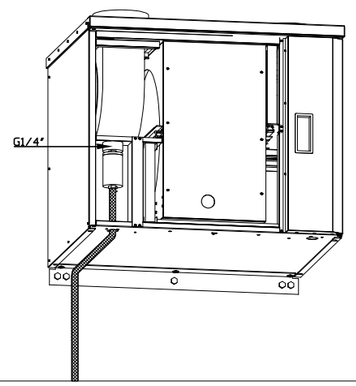
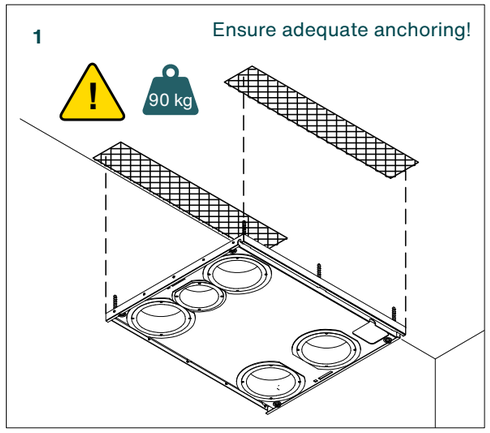


7.2. Ceiling installation

1



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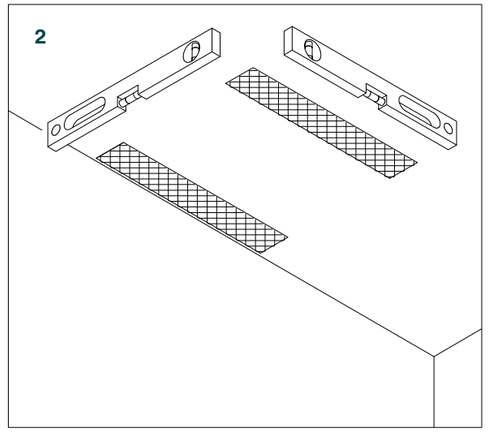

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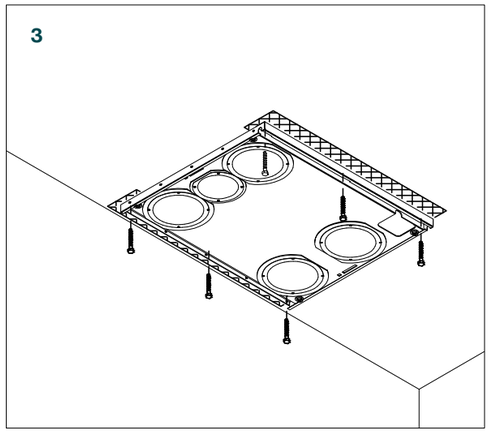

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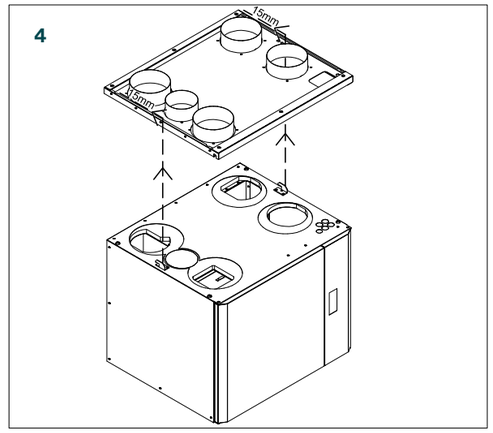

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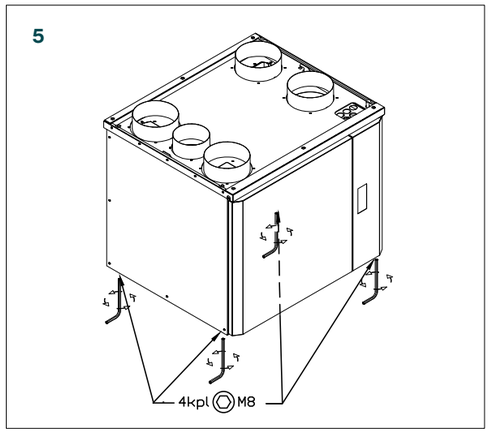

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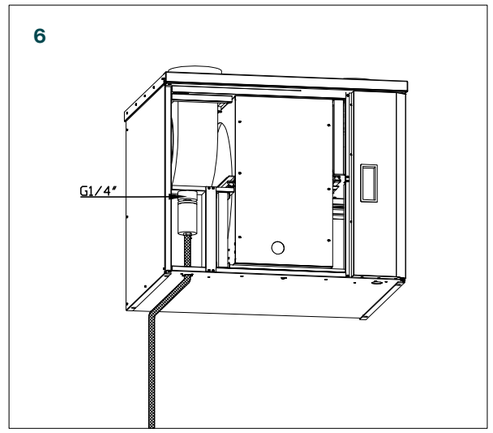
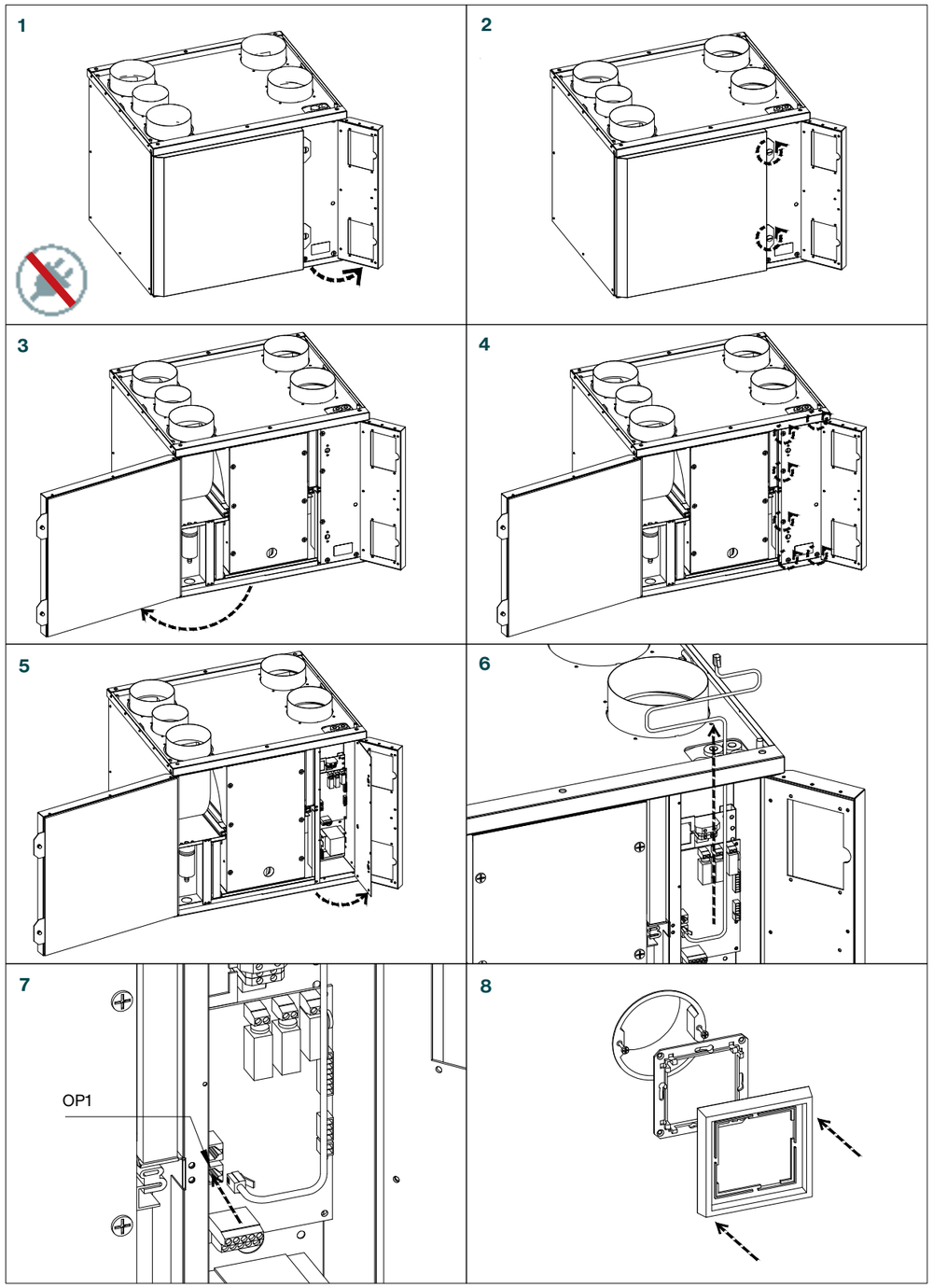
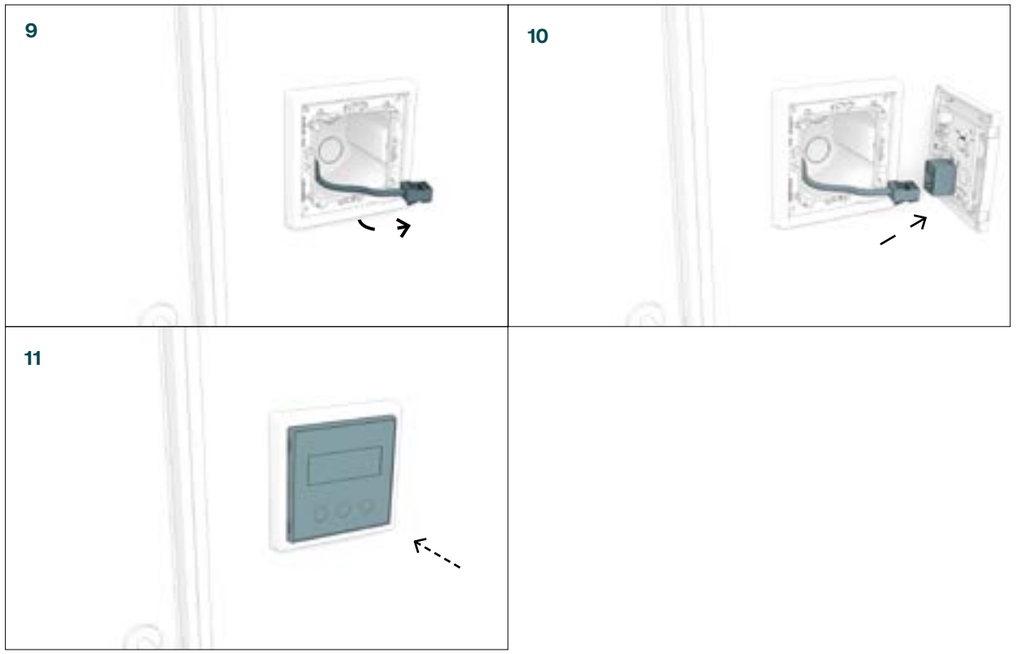


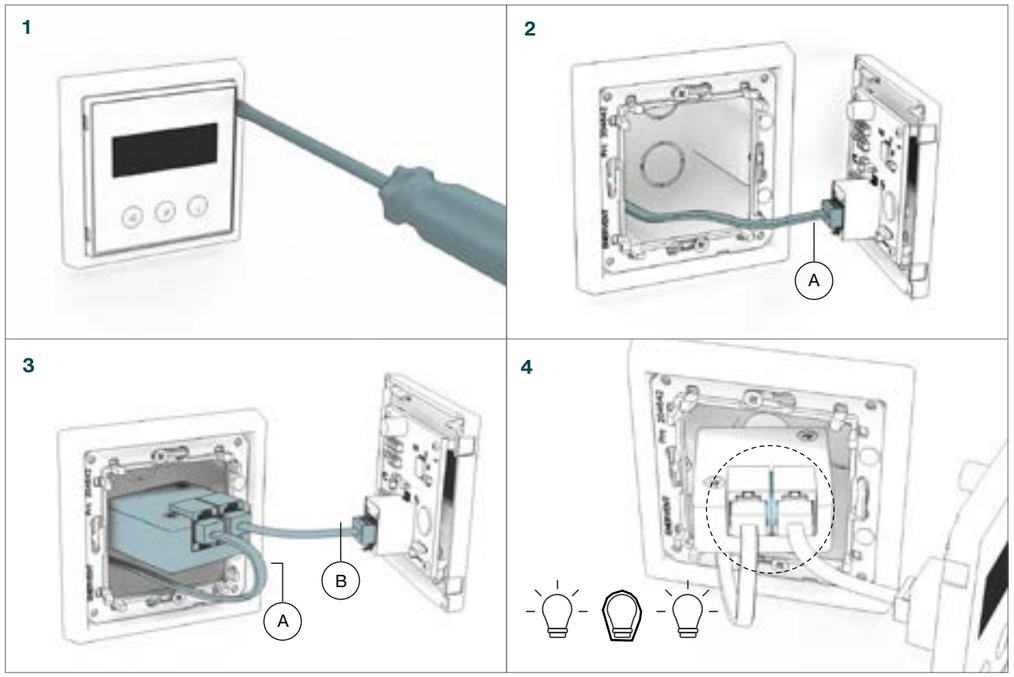
7.3. Installation of the eWind control panel

The eWind control panel (see section ‘Control system and the eWind operation panel’ on page 87) is installed in a wall-mounted device box or using the surface-mounting box supplied with the accessory delivery. No more than two external control panels can be installed in the ventilation unit.





7.4. Installation of the Wifi module



7.5. Installation to the Modbus bus

The ventilation unit can also be controlled via the Modbus connector X26.

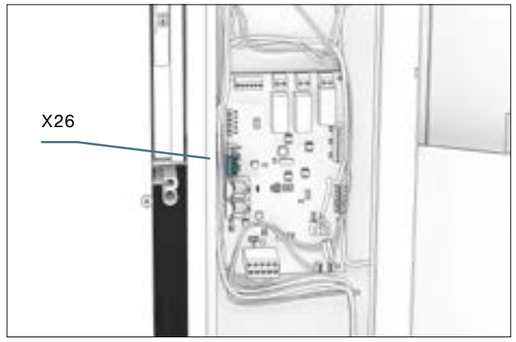
Modbus specification:

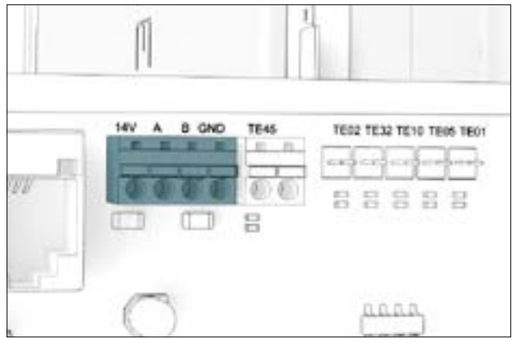
- Modbus address 1 (default)
- Data transmission protocol RS485
- Modbus traffic via the motherboard's Modbus connector X26
- Speed 9,600, 19,200 or 115,200 bps
- 8-bit
- No parity or parity

The order of the poles in the Freeway connector is marked in the controller board.

The Modbus registers are available on the Enervent website at www.enervent.com.

Caution!
Do not connect an external bus to the motherboard before the bus has been programmed and is compatible with the control of the unit.





7.5.1. Setting the Modbus parameters to the control system

1. Simultaneously press the buttons and three times in the control panel.

2. Using buttons and , choose the parameters c31-c32. The meaning of each parameter is described in section 'Parameter list' on page 14.

3. Select the parameter to be adjusted by pressing button for 3 seconds.

4. Change the parameter value using buttons and .

5. Confirm the value by pressing button .

6. Exit the settings by simultaneously pressing buttons and .

8. Commisioning

8.1. Requirements

Operational requirements for the ventilation unit:

- Supply and exhaust air temperature below +55°C.
- Exhaust air temperature at least +10°C
- Supply air temperature for heat recovery over +5°C
- Supply air temperature over +10°C
- All foreign objects have been removed from the ventilation system
- Both fans are running

8.2. Air flow adjustment

When the unit has been switched on, the air flows must be adjusted to the designed values.

- The air flows are adjusted in connection with the commissioning of the ventilation unit.
- **The adjustment is made separately for both fans in each operation mode (= at each fan speed).**

Check the following during the adjustment:

- All filters are clean.
- All supply and extract air vents, the roof inlet, and the outdoor air grilles are in place.

For your information
Do not cover the outdoor air grille with a mosquito net.

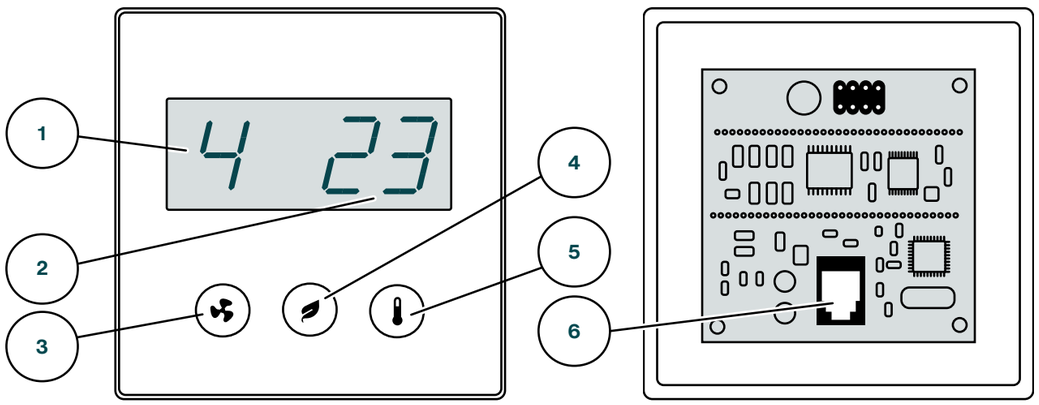
To achieve optimum adjustment values, the air flows must be measured at each duct opening. A suitable measurement device is a thermoanemometer or a differential pressure gauge. With the aid of the measurement values, the air flow can be adjusted to match the design values.

A correctly adjusted ventilation unit is quiet and provides a good thermal economy. In addition, it also maintains a slight negative pressure in the house. The negative pressure prevents humidity from entering the walls and ceiling.

8.3. Commissioning checklist

Measure	Inspected	Notes
The unit has been installed in accordance with the installation instructions provided by the manufacturer.		
The condensation water discharge pipe has been connected to the water trap, and its operation has been tested.		
Silencers have been installed in the supply and extract air ducts.		
The terminal devices have been connected to the ductwork.		
An outdoor air grille has been installed for the intake of fresh air. **NOTE:** Do not cover the grille with a mosquito net. It makes cleaning difficult.		
The unit has been connected to an appropriate power supply.		
The ventilation ducts have been insulated in accordance with the ventilation plan.		
The airflows are adjusted according to the ventilation plan.		

8.4. Control system and the eWind operation panel



1. Mode (standard display) **2. Temperature (standard display)** **3. Mode button**

4. Eco button **5. Temperature button** **6. Cable connection**

8.4.1. Important information about the control system

The factory settings are suitable for most installations.

The fan speed settings for various operating modes are installation specific, and they must be specified and set separately in connection with each installation. In other cases, the factory setting must not be changed unless otherwise instructed in the ventilation system plan.

Make sure that all necessary information is available before starting to adjust the settings.

8.4.2. Setting the operational parameters

The fan speed settings for different operation modes must be specified and set separately in connection with each installation. The settings are described in the parameter table.

1. Simultaneously press buttons and three times.

2. Using buttons and , choose the parameters c1-c32. The meaning of each parameter is described in section ‘Parameter list’ on page 16.

3. Select the parameter to be adjusted by pressing button for 3 seconds.

4. Change the parameter value using buttons and .

5. Confirm the value and return to the selection of parameters c1–c32 by pressing button .

6. Exit the settings by simultaneously pressing buttons and .

Parameter list

Parameter	Description	Factory setting	Note	Modbus register	Field setting
C1	Extract fan speed, mode 1, region: 20–100%, step: 1%	36%	‘Away’ mode	102	
C2	Supply fan speed, mode 1, control range: 20–100%, step: 1%	35%	‘Away’ mode	100	
C3	Extract fan speed, mode 2, control range: 20–100%, step: 1%	56%	Home mode	52	
C4	Supply fan speed, mode 2, control range: 20–100%, step: 1%	55%	Home mode	51	
C5	Extract fan speed, mode 3, control range: 20–100%, step: 1%	83%	Maximum power also in the removal of humidity and carbon dioxide	74	
C6	Supply fan speed, mode 3, control range: 20–100%, step: 1%	80%	Maximum power also in the removal of humidity and carbon dioxide	72	
C7	Extract fan speed, mode 4, control range: 20–100%, step: 1%	100%	Manual boosting	68	
C8	Supply fan speed, mode 4, control range: 20–100%, step: 1%	100%	Manual boosting	67	
C9	Time limit for manual boosting (mode 4), control range: 0–4 h, step: 1 h	2 h	Setting the time limit 0 h prevents the use of mode 4 and activates the 3-speed external control	66	
C10	Extract fan speed, fireplace/range hood mode, control range: 20–100%, step: 1%	30%		55	
C11	Supply fan speed, fireplace/range hood mode, control range: 20–100%, step: 1%	50%		54	
C12	Time limit for fireplace mode/ selection of range hood, control range: 0–15 min, step: 1 min	10 min	Setting time limit 0 min replaces the fireplace mode with the range hood mode.	56	
C13	Heat recovery defrosting, on/off	Off		Coil 55	
C14	Maintenance reminder interval 4 or 6 months	4	Register value in days	538	
C15	CHG/AGH pre-heating and AGH precooling, on/off	On		Coil 58	
C16	CHG/AGH outdoor temperature TE01, below which pre-heating is used, control range: 0–10°C, step 1°C (for pre-heating)	5°C		592	
C17	CHG/AGH pre-heating is not in use when the outdoor air temperature (TE01) rises above value (c16) + (c17), control range: 1–5°C, step 1°C	1°C		593	
C18	CG cooling or CHG pre-cooling, on/off	On	Applies to CG and CHG heat exchangers	Coil 52	

Parameter list

Parameter	Description	Factory setting	Note	Modbus register	Field setting
C19	Outdoor temperature TE01, above which pre-cooling/cooling is allowed	17°C		164	
C20	AGH outdoor temperature, above which the earth duct is used, control range: 15–25°C, step 1°C, (for pre-cooling)	20°C		629	
C21	AGH pre-cooling is not in use when the outdoor air temperature (TE01) drops below value (c20-c21), control range: 1–5°C, step 1°C	2°C		630	
C22	Temperature setting for air temperature after the electric pre-heating, control range: –10...–20°C, step: 1°C	–15°C		591	
C23	Boosted operation for the removal for humidity, on/off	On		Coil 19	
C24	Threshold value for summer/winter temperature, control range –10...+10°C, step 1°C	4°C	The 24-hour average temperature of the outdoor air. Above the threshold value, the boosted operation for the removal humidity is in the summer mode, and below the threshold value, it is in the winter mode.	137	
C25	Threshold value for dehumidification, control range 10–100 %RH, step 5%	45%	In the winter mode, the boosted operation for the removal of humidity starts when the humidity value exceeds the threshold value.	69	
C26	Threshold value for starting dehumidification, control range: 5–30%, humidity exceeds the 48-hour average value, step 5%	15%	In the summer mode, the boosted operation for the removal of humidity starts when the relative humidity exceeds the 48-hour average value of humidity by the amount of the threshold value.	70	
C27	Boosted operation for the removal of carbon dioxide, on/off	Off		Coil 21	
C28	Threshold value for starting the carbon dioxide removal, control range: 600–1,200 ppm, step: 100 ppm	1,000 ppm		76	
C29	Boosted operation for the removal of humidity with the rotating heat exchanger, on/off	Off		Coil 24	
C30	Display dimmed in the standby mode, on/off	Off	Panel-specific setting off: dark display in the standby mode, on: dimmed display in the standby mode.	Internal	
C31	Modbus address of the automation motherboard, control range: 1–99, step: 1	1		640	
C32	Modbus bus speed, 1 = 9,600, 2 = 19,200, 3 = 115,200	2	19,200 bps	733	

8.5. Data display

You can view the available functions in the eWind info list on the data display.

8.5.1. eWind info list

Opening:

1. Simultaneously press buttons and once.
Parameter (n1..nn) is displayed.

2. Browse the info list using buttons and .

Return to the standard view:

3. Simultaneously press buttons and once.

For your information
If you do not press any button, the menu will close in 5 minutes and the panel will return to the standard view.

eWind info list

Marking	Definition
n0	Standard mode is on
n1	Boosted ventilation for the removal of humidity
n2	Boosted ventilation for the removal of carbon dioxide
n3	Heat recovery is on
n4	Post-heating with an electric or water coil is on
n5	Outdoor air pre-heating with CHG/AGH or an electric pre-heater is on
n6	Supply air CG, CHG, or AGH cooling is on
n7	Cold recovery with the rotating heat exchanger is on
n8	Ventilation boosted manually
n9	Away mode is on
n10	Dehumidification with rotor is on
n11	Defrosting is on
n12	Eco mode is on
n13	Maintenance reminder: the time remaining until the next filter replacement in days
n14	Unit is starting

8.6. Measurement display

You can monitor temperature, humidity, heat recovery efficiency and other measurement values in the eWind measurement list, which is displayed on the measurement display.

8.6.1. eWind measurement list

Opening:

1. Simultaneously press buttons and two times.
Parameter (r1..rn) and the parameter values are displayed.

2. Browse the parameter list up or down by pressing button or .

Return to the standard view:

3 . Simultaneously press buttons and once.

eWind measurement list				
Marking	**Definition**	**Marking in the chart and the connection in the automation motherboard**	**Note**	**Modbus register**
r1	Outdoor air temperature, °C	TE01	All models	6
r2	Supply air temperature after heat recovery, °C	TE05	All models	7
r3	Supply air temperature, °C	TE10	All models	8
r4	Extract air temperature, °C	TE30	All models	10
r5	Exhaust air temperature, °C	TE32	All models	9
r6	Return water temperature of water-based heating coil, °C	TE45	eWind W only. Other models display '0'.	12
r7	Temperature of pre-heated outdoor air (CHG/AGH/electric pre-heater), °C	TE02	Only if equipped with CHG/AGH or an electric pre-heater.	32
r8	Relative humidity (RH) of exhaust air	RH30	All models	13
r9	Carbon dioxide level, ppm		Without an external carbon dioxide sensor (accessory), '- -' is displayed	23
r10	Measurement of external relative humidity, %RH		Without an external humidity sensor (accessory), '- -' is displayed-	23
r11	Temperature efficiency of the supply air heat recovery, %		All models Calculated value	29
r12	Temperature efficiency of the exhaust air heat recovery, %		All models Calculated value	30

8.7. Commissioning documentation

- Fill in the warranty information.
- Fill in the air volume measurement document.

For your information
The warranty is not valid for units with no documented air volume measurement.

It is extremely important to record all the changes made to the parameters. This ensures that there are backup copies of the information in case the automation is damaged (e.g., by a lightning strike).

9. Troubleshooting

Problem	Reason	Help	Solution
FILS Service reminder	Regular reminder with 6 month interval (depending on unit model)		Change the filters and clean the unit from the inside and check if the unit is working.
Err Temperature sensor malfunction	The temperature sensor is short-circuited or there is a break in the connection.		Turn off the ventilation unit from the main switch, open the electrical box, and check that the quick couplings of the temperature sensors are connected. It is possible that the quick connectors have come loose during the installation of the unit. Contact a service representive.
oFFE Stop mode	The internal alarm of the heat pump unit is active.		Find out the status of the external control system. Contact a service representive.
AL1 The water heating coil is starting to freeze. NOTE! The ventilation unit does not start until the alarm state has been removed and the alarm has been reset by pressing any button on the control panel.	The heat exchanger belt has broken.	The heat exchanger has a green belt. Check the heat exchanger rotor from the belt's control hole. If the belt is not visible, it is broken.	Change the belt.
	The heat exchanger belt-wheel is oily and the belt is slipping	The heat exchanger has a green belt. Check the heat exchangers rotor from the belt's control hole if the belt wheel is rotating even if the heat exchanger rotor is not rotating.	Change the belt.
	The exhaust fan has stopped.	Open the service hatch when the unit is running. The exhaust fan needs to be on. With the LTR unit you must push down the door coupling with a screwdriver and check if the unit starts.	Change the fans. Contact a service representive.
	The exhaust filter is clogged.	Open the service hatch when the unit is not on. Remove the filters and check if they are dirty.	Change the filters.
	The water heater's valve actuator is broken.		Contact a service representive.
	The circulating water pump has stopped.	Check if the heating/cooling circulation pump is on.	Start the pump, contact a service representive if the problem persists.
	Error in the heat exchanger motor/ gearbox	Open the service hatch while the unit is on and listen if the noise is coming from the heat exchanger.	Contact a service representive.
	The heat exchanger belt wheel has come loose from the axel.	Check the heat exchanger rotor from the belt control hole if the axel is rotating freely and the belt wheel is stationary.	Tighten the belt wheel screw. Contact a service representive.

Problem	Reason	Help	Solution
AL2 Supply air is cold after the rotary heat exchanger.	The heat exchanger belt has broken.	The heat exchanger has a green belt. Check the heat exchanger rotor from the belt's control hole. If the belt is not visible, it is broken.	Change the belt.
	The heat exchanger belt-wheel is oily and the belt is slipping	The heat exchanger has a green belt. Check the heat exchangers rotor from the belt's control hole if the belt wheel is rotating even if the heat exchanger rotor is not rotating.	Change the belt.
	Error in the heat exchanger motor/ gearbox	Open the service hatch while the unit is on and listen if the noise is coming from the heat exchanger.	Contact a service representive.
AL3 Supply air is cold	The exhaust fan has stopped.	Open the service hatch when the unit is running. The exhaust fan needs to be on. With the LTR unit you must push down the door coupling with a screwdriver and check if the unit starts.	Change the fans.
	The exhaust filter is clogged.	Open the service hatch when the unit is not on. Remove the filters and check if they are dirty.	Change the filters.
	The ventilation unit runs with a too low fan speed.	The correct fan speed was chosen when the ventilation was balanced in your house. Check your ventilation installation sheet for the correct fan speeds.	Adjust the fan speed from the control panel. Contact a service representive.
	The ventilation is adjusted incorrectly.		Contact the company that has installed your ventilation unit and check if the houses airflow/ valves has been adjusted correctly. Contact a service representive.
AL4 Supply fan malfunction	The supply air fan has stopped	Open the service hatch when the unit is running. The exhaust fan needs to be on. With the LTR unit you must push down the door coupling with a screwdriver and check if the unit starts.	Contact a service representive.
AL5 Extract fan malfunction	The exhaust fan has stopped.	Open the service hatch when the unit is running. The exhaust fan needs to be on. With the LTR unit you must push down the door coupling with a screwdriver and check if the unit starts.	Change the fans. Contact a service representive.

Problem	Reason	Help	Solution
AL6 The water heating coil is starting to freeze. NOTE! The ventilation unit does not start until the alarm state has been removed and the alarm has been reset by pressing any button on the control panel.	Insufficient isolation in the ducts.		Check the thickness of the insulation in the supply air and the exhaust air ducts and improve the insulation when required. Contact a service representive.
	The overheating protection of the afterheater has been activated		Find out what has caused the error and reset the over-heating protection (® button on the coil) Contact a service representive.
	The ventilation unit's door is open		Close the door. Contact a service representive.
	Low room temperature		Raise the room temperature. Contact a service representive.
	TE-30 error int the temperature sensor		Contact a service representive.
AL7 Supply air hot. Risk of fire.	Error in the electrical after heater		Contact a service representive.
	The water heater's valve actuator is broken		Contact a service representive.
	TE-10 error in the temperature sensor		Contact a service representive.
	Fire risk		Contact a service representive.
AL8 Electrical re-heater or pre-heater overheating	Error in the electrical after heater		Contact a service representive.
	The supply air fan has stopped	Open the service hatch when the unit is running. The exhaust fan needs to be on. With the LTR unit you must push down the door coupling with a screwdriver and check if the unit starts.	Contact a service representive.
	The supply air filter is clogged	Open the service hatch when the unit is not on. Remove the filters and check if they are dirty.	Change the filters.
	The outside air grille is clogged	Check if there is something blocking the outside air grille.	Clean the outdoor air grille Contact a service representive.
	The heater controller card is broken		Replace the heater controller card Contact a service representive.

EU DECLARATION OF CONFORMITY

We declare that our products follows the provisions of low voltage directive LVD 2014/35/EU, electromagnetic compatibility directive EMC 2014/30/EU, radio equipment directive RED 2014/53/EU, machine directive MD 2006/42/EC, ROHS II directive 2011/65/EU and waste electrical and electronic equipment directive WEEE 2012/19/EU.

Manufacturer:	Enervent Zehnder Oy
Manufacturer´s contact:	Kipinätie 1, 06150 Porvoo, FINLAND, tel. +358 207 528 800, fax +358 207 528 844 enervent@enervent.com, www.enervent.com
Description of the product:	Ventilation unit with heat recovery
Trade name of the product:	Salla Compact eWind E right, Salla Compact eWind E left

The products are in conformity with the following standards:

LVD EN 60335-1:2012/A15:2021
EN 62233:2008/AC:2008

EMC EN 61000-3-2:2014 and EN 61000-3-3:2013
EN 61000-6-1:2007 and EN 61000-6-3:2007/A1:2011/AC:2012

RED EN 300328 v2.2.2

MD EN ISO 12100:2010

ROHS EN IEC 63000:2018

The conformity of each manufactured product is taken care according our quality descriptions.

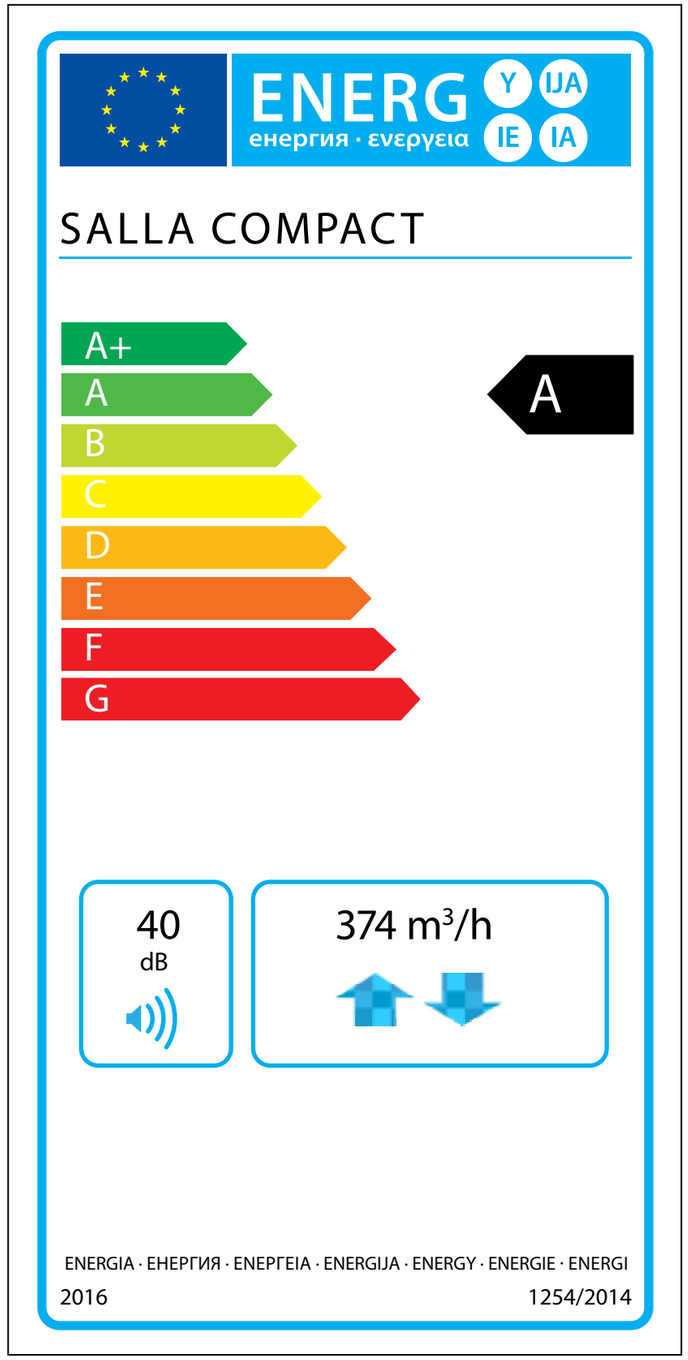
Product is CE-marked year 2026

Porvoo 2nd of January 2026

Enervent Zehnder Oy

Tom Palmgren
Technology manager

10. Energy class



11. Product information

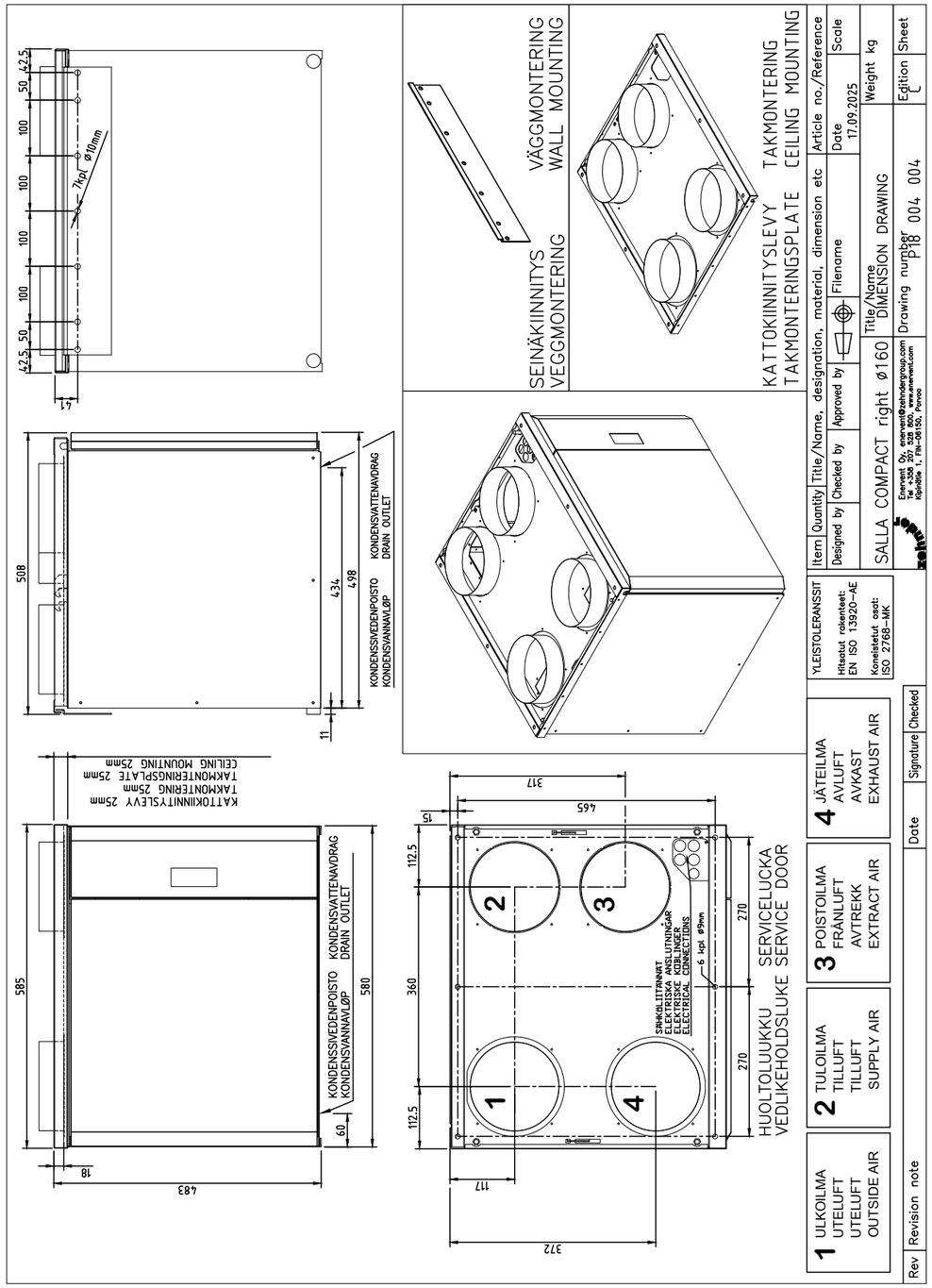
Product information according to EU commision regulation no 1253/2014 and 1254/2014	
Supplier's name or trade mark	Enervent Zehnder
Supplier's model identifier	Salla Compact
Specific energy consumption (sec) in kWh/(m2.A)	
▪ Cold climate	-84,50
▪ Average climate	-40,81
▪ Warm climate	-15,78
Declared typology in accordance with article 2 of this regulation	RVU / BVU
Type of drive installed or intended to be installed	Multi-speed drive
Type of heat recovery system	Regenerative
Thermal efficiency of heat recovery	84,0
Maximum flow rate in m^3/h	374
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate (W)	211
Sound power level (L_{WA}), rounded to the nearest integer	40
Reference flow rate in m^3/s	0,073
Reference pressure difference in Pa	50
SPI in $W/(m^3/h)$	0,37
Control factor and control typology in accordance with the relevant definitions and classification in annex VIII, table 1	0,65
Declared maximum internal and external leakage rates (%) for bidirectional ventilation units	<4% / <2%
Position and description of visual filter warning for rvus intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit	Filter warning on control panel. Instructions in user manual.
Internet address for disassembly instructions as referred to in point 3	https://doc.enervent.com/op/op.ViewOnline.php?documentid=3067&version=0
The annual electricity consumption (AEC) (in kWh electricity/a)	195
The annual heating saved (AHS) (in kWh primary energy/a) for each type of climate	
▪ Cold climate	8938
▪ Average climate	4569
▪ Warm climate	2066

The information on the energy label for this product has been defined with local demand control. Local demand control means that the ventilation unit continuously regulates the fan speed(s) and flow rates based on more than one sensor. Please remember to connect all local sensors (some sold as extra equipment) in order to achieve the declared energy class.

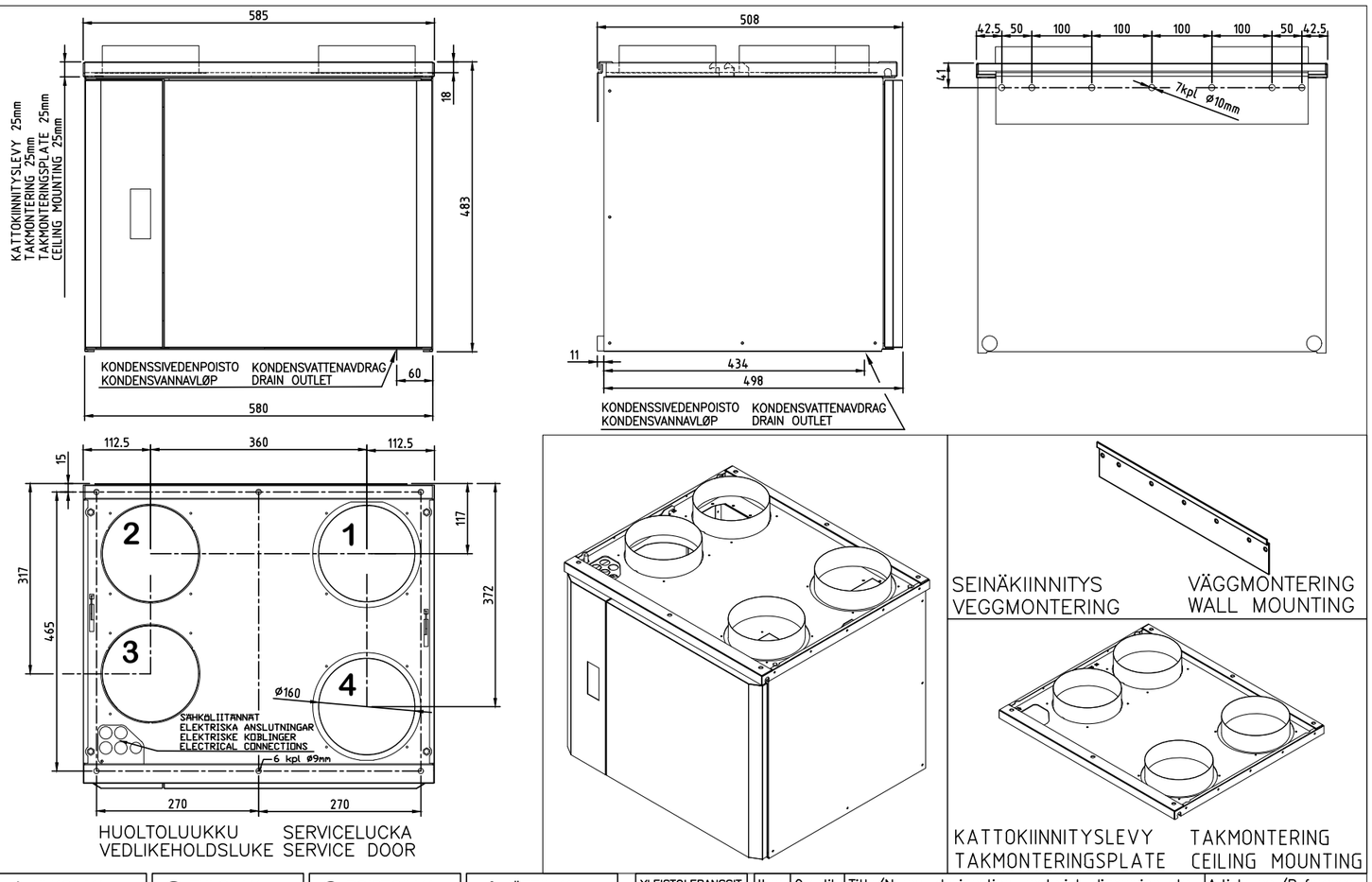
12. Appendices

12.1. Dimensional drawings

12.1.1. Technical dimensional drawing, 4-duct right-handed



12.1.2. Technical dimensional drawing, 4-duct left-handed



1 ULKOILMA UTELUFT UTELUFT OUTSIDE AIR	2 TULOILMA TILLUFT TILLUFT SUPPLY AIR	3 POISTOILMA FRÅNLUFT AVTREKK EXTRACT AIR	4 JÄTEILMA AVLUFT AVKAST EXHAUST AIR

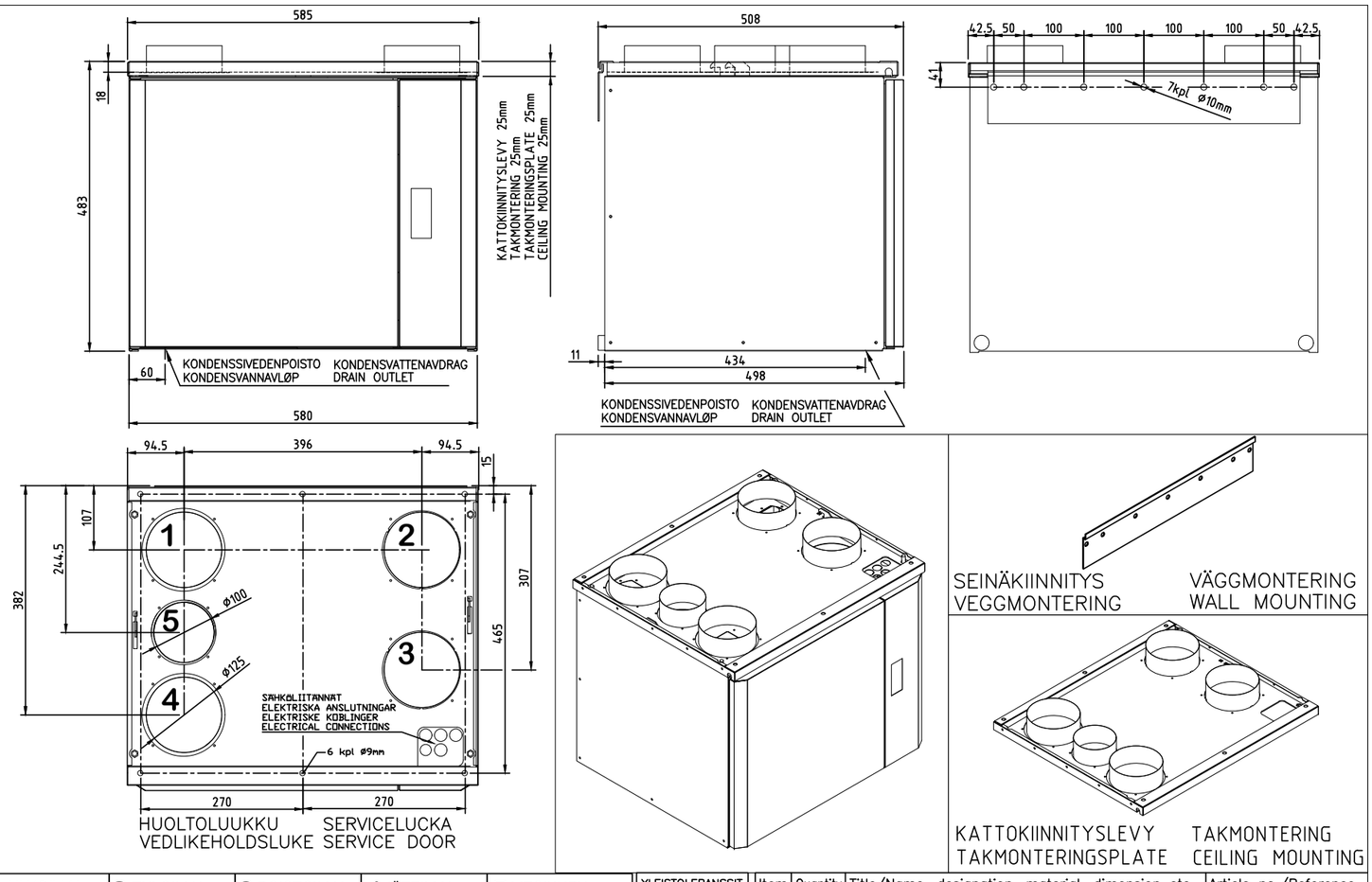
YLEISTOLERANSSIT
Hitsatut rakenteet: EN ISO 13920–AE
Koneistetut osat: ISO 2768–MK

Item	Quantity	Title/Name, designation, material, dimension etc	Article no./Reference
Designed by	Checked by	Approved by	Filename: SALLA COMPACT left ø160
Date: 17.09.2025	Scale		
Title/Name: DIMENSION DRAWING	Weight kg		
Drawing number: P18 004 005	Edition: C	Sheet	

Enervent Oy, enervent@zehndergroup.com
Tel +358 207 528 800, www.enervent.com
Kipinätie 1, FIN-06150, Porvoo

Rev	Revision note	Date	Signature	Checked

12.1.3. Technical dimensional drawing, 5-duct right-handed



1 ULKOILMA UTELUFT UTELUFT OUTSIDE AIR	2 TULOILMA TILLUFT TILLUFT SUPPLY AIR	3 POISTOILMA FRÅNLUFT AVTREKK EXTRACT AIR	4 JÄTEILMA AVLUFT AVKAST EXHAUST AIR	5 LIESIKUPU SPISKÅPA KJØKKENHETTE COOKER HOOD

YLEISTOLERANSSIT
Hitsatut rakenteet: EN ISO 13920–AE
Koneistetut osat: ISO 2768–MK

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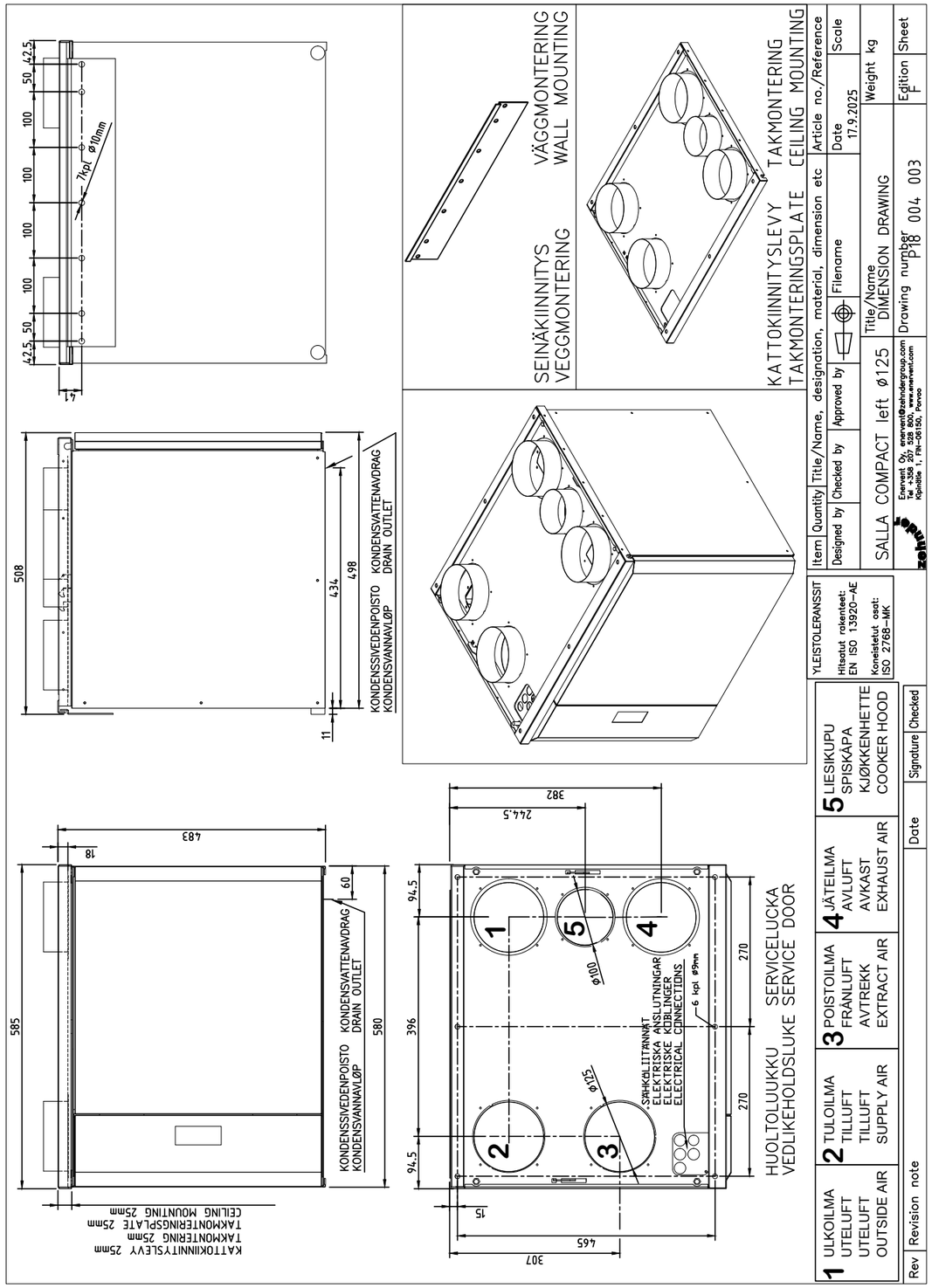
Date: 17.09.2025	Scale		
Title/Name: DIMENSION DRAWING	Weight kg		
Drawing number: P18 004 002	Edition: F	Sheet	

Enervent Oy, enervent@zehndergroup.com
Tel +358 207 528 800, www.enervent.com
Kipinätie 1, FIN-06150, Porvoo

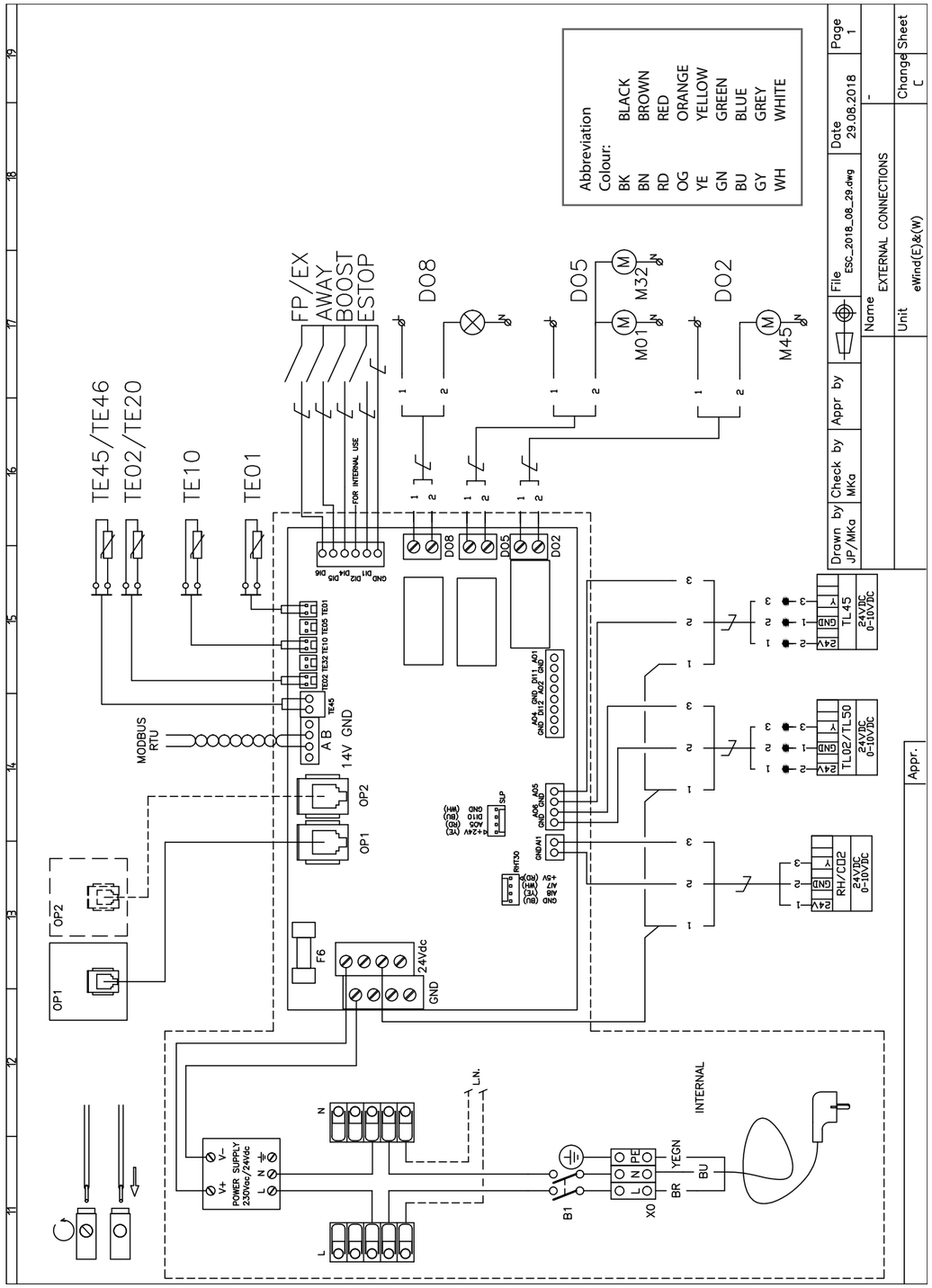
Rev	Revision note	Date	Signature	Checked

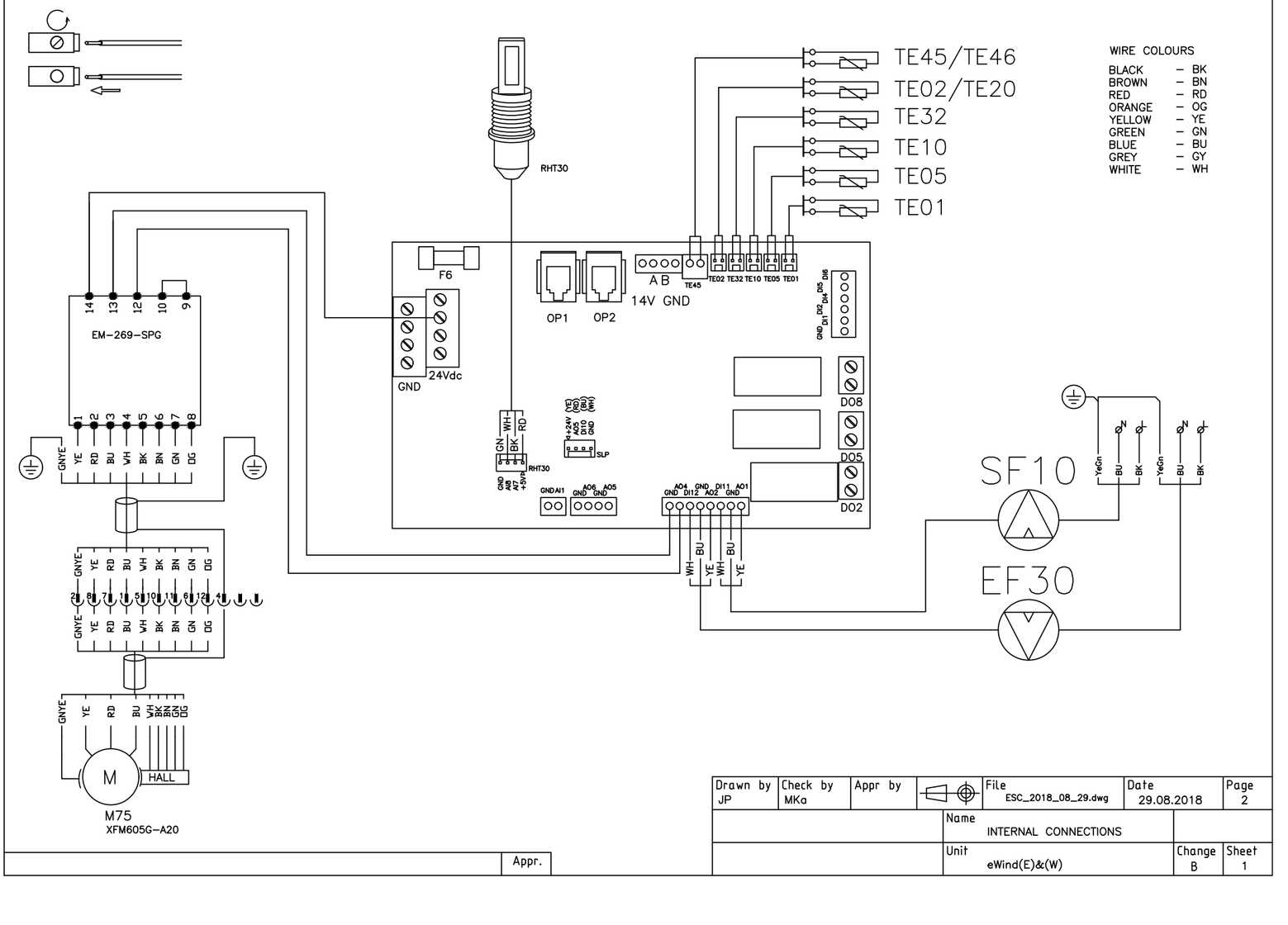
12.1.4. Technical dimensional drawing, 5-duct left-handed



12.2. Electrical diagrams

12.2.1. Connections





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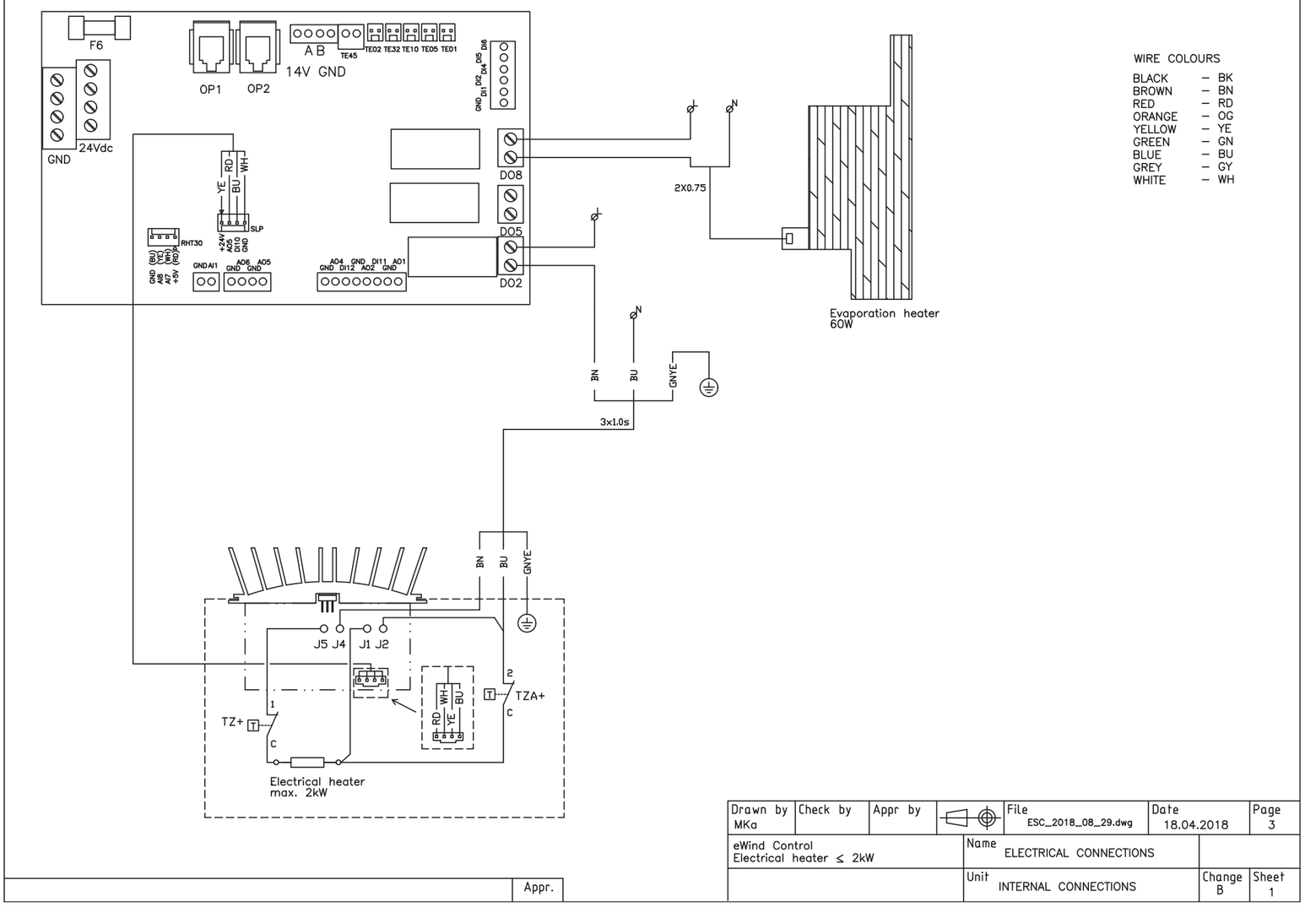
			Unit: eWind(E)&(W)	Change: B	Sheet: 1

	Appr.



Drawn by	Check by	Appr by	File	Date	Page
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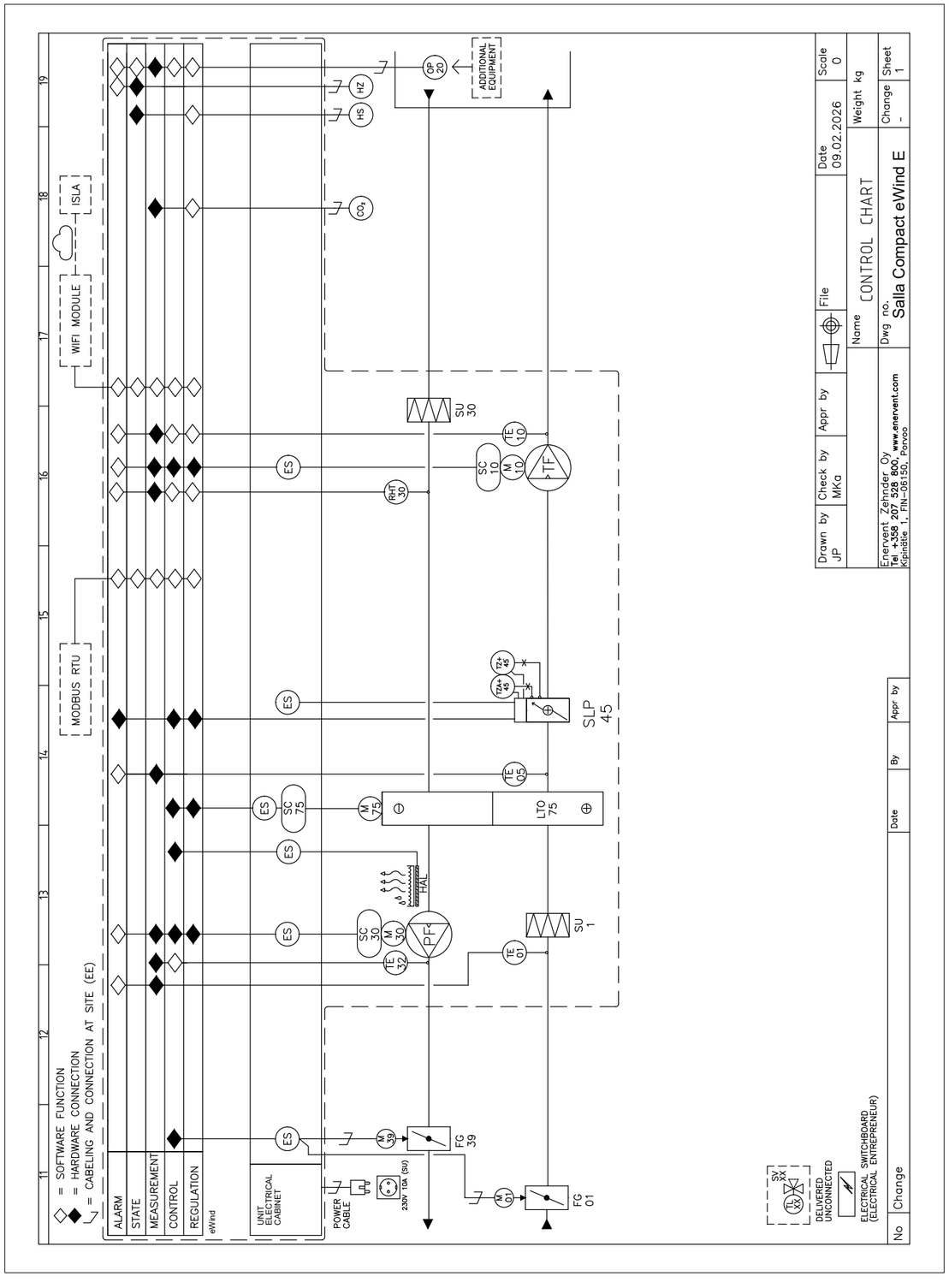
eWind Control Electrical heater ≤ 2kW			Name: ELECTRICAL CONNECTIONS		
			Unit: INTERNAL CONNECTIONS	Change: B	Sheet: 1

	Appr.

Name	Definition	Marking on the circuit board
FP/EX	Fireplace/Range hood mode	DI6
AWAY	Away mode	DI5
BOOST	Manual boosting	DI4
ESTOP	Emergency stop	DI1
TE45	Return water temperature sensor eWind W models	TE45
TE46	Return water temperature sensor eWind CG models	TE45
TE02	Pre-heated outdoor air temperature, external pre-heater	TE02
TE20	Return air temperature ((KOTILÄMPÖ eWind)	TE02
TE10	Supply air temperature	TE10
TE01	Outdoor air temperature	TE01
RH CO_2	External humidity sensor as default (RH 0–100%). If parameter c27 is active, CO_2 sensor (200–2,000 ppm) (accessory)	AI1
TL02 **TL50**	Pre-heating actuator, CHG models. Cooling actuator, CG models	AO6
TL45	Heating actuator, W models	AO5
DO8	Alarm output A as default pre-heating on/off control, CHG –AGH, electric pre-heater models cooling on/off control, CG models, condensate tray heater	DO8
DO5	Outdoor air and extract air damper control (accessory)	DO5
DO2	Heating on/off control eWind models MAX 500-W PUMP	DO2
OP1	Control panel with 10m cable (additional equipment)	OP1
OP2	Control panel with 10m cable (additional equipment)	OP2



Component catalog				
Designation	Name	Equipment	Technical data	Note
iSLa	Operating application	Standard	Application	Downloading from the app store
TE01	Fresh air temperature	Standard	NTC−10	
TE05	Supply air, after heat recovery	Standard	NTC−10	
TE10	Supply air temperature	Standard	NTC−10	
RHT30	Extraxt air; temperature and humidity	Standard	Sender	
TE32	Exhaust air temperature	Standard	NTC−10	
SU1	Fresh air filter	Standard	Standard F7	
SU30	Extract air filter	Standard	Standard M5	Alternatively F7
LT075	Rotating heat exchanger	Standard		
M75+SC75	HRW motor + control	Standard	EC motor, max effect 5 W	
TF10+M10+SC10	Supply fan	Standard	EC motor	
PF30+M30+SC30	Exhaust fan	Standard	EC motor	
HAL	Evaporation basin heater	Standard	60W	
SLP45	Supply air reheater, electrical	Standard		Effect acc. to Unit size
OP20	Control panel	Optional equipment	eWind delivery, contains cabel	
CO2	CO2−measurement	Optional equipment	200−2000ppm, 0−10Vdc	
HS	Extra time, switch	Optional equipment	Pushbutton	
FG01	Fresh air dampers+Damper motor	Optional equipment		
FG39	Exhaust air dampers+Damper motor	Optional equipment		
HZ	Emergency stop		Normally open (NO) as standard	

No	Change	Date	By	Appr by

Drawn by	Check by	Appr by	File	Date	Scale
JP	MKa			09.02.2026	0
			Name COMPONENT CATALOGUE		Weight kg
Enervent Zehnder Oy Tel +358 207 528 800, www.enervent.com Kipinätie 1, FIN−06150, Porvoo			Dwg no Salla Compact eWind E		Change − / Sheet 1

eWind − Control general function description

Operation of Unit:

Operation modes can be changed from the control panel, with external inputs or through bus control.

BUS connections:

Modbus−RTU is included in the eWind control by default. The units can also be connected to KNX−bus with an external converter (optional equipment). Through the bus measurements can be read and settings can be changed.

Fan control:

The fans are controlled by constant speed. Separate speeds can be adjusted for both fans. Settings can be changed from the control panel.

Heating control:

Supply air temperature TE10 is kept at its set point by help of (cooling), heat recovery and post heater (and additional heater).

Humidity boosting

The eWind control is always equipped with a built−in humidity sensor on the extract air side. The user can take humidity boosting in use when desired. In this case the controller will increase fan speeds if humidity boosting limit value is exceeded.

CO2−Boosting (Optional equipment)

The user can enable CO2−boosting if the unit is equipped with a CO2 sensor. The controller will increase fan speeds if the limit value is exceeded.

Precautions and securities

General

In units with danger of fans, the unit is shut down when the door is opened for maintenance.

Dampers

The dampers are controlled with a relay. The relay is closed when unit is running.

Units with electrical heater

If the heater power exceeds 2kW the unit is equipped with a pressure guard over the supply air fan disabling the heater if there is no airflow through supply air fan.

Units with water heater coil

If the unit is started during cold weather, the TL45 valve is pre−opened depending on the outdoor air temperature as a precaution. When the unit is in stop mode the return water temperature is kept at set stand by temperature measured by the return water temperature sensor. If the return water temperature drops below forcing limits the TL45 valve opens fully. If the return water temperature drops despite all this below alarm limits, the A−alarm is triggered. In this case the TL45 valve stays fully open and the pump relay stays on. There is an exercise function in all pump and valve outputs which runs the pump and valve from time to time to avoid them from sticking up.

Alarms

A−alarms

Class A alarms cause the unit to stop fully and trigger an alarm to the control panel and the A−alarm relay to close. The unit restarts only by resetting the alarm.

AB−alarms

Class AB alarms the unit goes in a state where supply air fan stops, and extract air fan keeps running on minimum speed. When the reason for the alarm is no longer existing, the unit returns to normal operation mode.

No	Change	Date	By	Appr by

Drawn by	Check by	Appr by	File	Date	Scale
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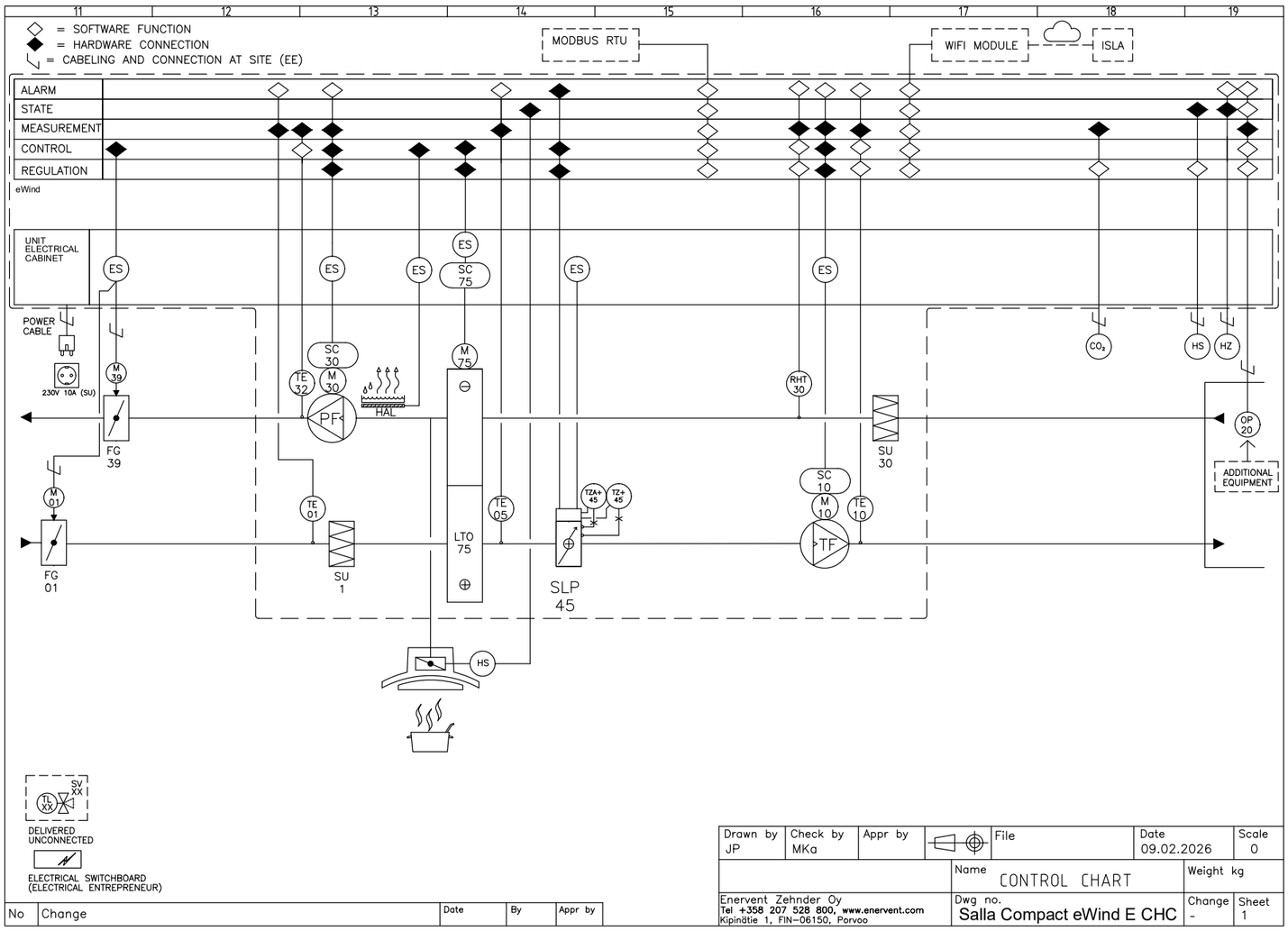
Enervent Zehnder Oy Tel +358 207 528 800, www.enervent.com Kipinätie 1, FIN−06150, Porvoo			Dwg no Salla Compact eWind E		Change − / Sheet 1



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	Name	Weight kg
Enervent Zehnder Oy Tel +358 207 528 800, www.enervent.com Kipinätie 1, FIN-06150, Porvoo	CONTROL CHART	
	Dwg no. Salla Compact eWind E CHC	Change - / Sheet 1

11	12	13	14	15	16	17	18	19

Component catalog				
Designation	Name	Equipment	Technical data	Note
iSLa	Operating application	Standard	Application	Downloading from the app store
TE01	Fresh air temperature	Standard	NTC-10	
TE05	Supply air, after heat recovery	Standard	NTC-10	
TE10	Supply air temperature	Standard	NTC-10	
RHT30	Extraxt air; temperature and humidity	Standard	Sender	
TE32	Exhaust air temperature	Standard	NTC-10	
SU1	Fresh air filter	Standard	Standard F7	
SU30	Extract air filter	Standard	Standard M5	Alternatively F7
LTO75	Rotating heat exchanger	Standard		
M75+SC75	HRW motor + control	Standard	EC motor, max effect 5 W	
TF10+M10+SC10	Supply fan	Standard	EC motor	
PF30+M30+SC30	Exhaust fan	Standard	EC motor	
HAL	Evaporation basin heater	Standard	60W	
SLP45	Supply air reheater, electrical	Standard		Effect acc. to Unit size
OP20	Control panel	Optional equipment	eWind delivery, contains cabel	
CO2	CO2-measurement	Optional equipment	200-2000ppm, 0-10Vdc	
HS	Extra time, switch	Optional equipment	Pushbutton	
FG01	Fresh air dampers+Damper motor	Optional equipment		
FG39	Exhaust air dampers+Damper motor	Optional equipment		
HZ	Emergency stop		Normally open (NO) as standard	

No	Change	Date	By	Appr by

Drawn by	Check by	Appr by	File	Date	Scale
JP	MKa			09.02.2026	0

	Name	Weight kg
Enervent Zehnder Oy Tel +358 207 528 800, www.enervent.com Kipinätie 1, FIN-06150, Porvoo	COMPONENT CATALOGUE	
	Dwg no. Salla Compact eWind E CHC	Change - / Sheet 1

eWind – Control general function description

Operation of Unit:
Operation modes can be changed from the control panel, with external inputs or through bus control.

BUS connections:
Modbus–RTU is included in the eWind control by default. The units can also be connected to KNX–bus with an external converter (optional equipment). Through the bus measurements can be read and settings can be changed.

Fan control:
The fans are controlled by constant speed. Separate speeds can be adjusted for both fans. Settings can be changed from the control panel.

Heating control:
Supply air temperature TE10 is kept at its set point by help of (cooling), heat recovery and post heater (and additional heater).

Humidity boosting
The eWind control is always equipped with a built–in humidity sensor on the extract air side. The user can take humidity boosting in use when desired. In this case the controller will increase fan speeds if humidity boosting limit value is exceeded.

CO2–Boosting (Optional equipment)
The user can enable CO2–boosting if the unit is equipped with a CO2 sensor. The controller will increase fan speeds if the limit value is exceeded.

Precautions and securities

General
In units with danger of fans, the unit is shut down when the door is opened for maintenance.

Dampers
The dampers are controlled with a relay. The relay is closed when unit is running.

Units with electrical heater
If the heater power exceeds 2kW the unit is equipped with a pressure guard over the supply air fan disabling the heater if there is no airflow through supply air fan.

Units with water heater coil
If the unit is started during cold weather, the TL45 valve is pre–opened depending on the outdoor air temperature as a precaution. When the unit is in stop mode the return water temperature is kept at set stand by temperature measured by the return water temperature sensor. If the return water temperature drops below forcing limits the TL45 valve opens fully. If the return water temperature drops despite all this below alarm limits, the A–alarm is triggered. In this case the TL45 valve stays fully open and the pump relay stays on. There is an exercise function in all pump and valve outputs which runs the pump and valve from time to time to avoid them from sticking up.

Alarms
A–alarms
Class A alarms cause the unit to stop fully and trigger an alarm to the control panel and the A–alarm relay to close. The unit restarts only by resetting the alarm.

AB–alarms
Class AB alarms the unit goes in a state where supply air fan stops, and extract air fan keeps running on minimum speed. When the reason for the alarm is no longer existing, the unit returns to normal operation mode.

No	Change	Date	By	Appr by

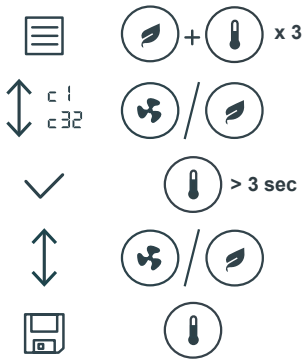
Drawn by	Check by	Appr by		File	Date	Scale
JP	MKa				09.02.2026	0
				Name FUNCTION DESCRIPTION		Weight kg
Enervent Zehnder Oy Tel +358 207 528 800, www.enervent.com Kipinätie 1, FIN–06150, Porvoo				Dwg no. Salla Compact eWind E CHC		Change – / Sheet 1

13. Record of measuring air amounts and sound levels

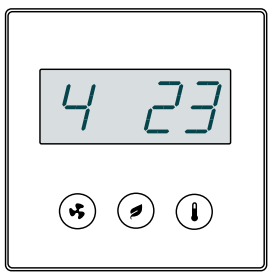
Date / Dato:
Building / Objekt:
Ventilation unit / Ventilasjonsaggregat:
Serial number / Serienummer:
Filter: M5/M5 F7/M5 F7/F7 l/s m^3/h

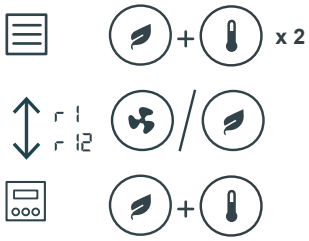
Room /measuring point / floor Rom / målepunkt / etasje	Supply air / Tilluft					Extract air / Avtrekk						
	Terminal device Terminal enhet	Planned air amount Planert luftmengde	Measured air amount Målt luftmengde	p Pa	Setting Innstilling	Terminal device Terminal enhet	Planned air amount Planert luftmengde	Measured air amount Målt luftmengde	p Pa	Setting Innstilling	Lpa dB(A)	Note! Merk!
Total planned air amounts / Totalt planlagte luftmengde			supply air / tilluft:					extract air / avtrekk:				
Total realized air amounts / Totalt realisert luftmengde			supply air / tilluft:					extract air / avtrekk:				
Air amount / Luftmengde Fanspeed+difference/ Viftehastighet+forskjell		Home / Hjemme		Away / Borte		Forsterkning						
Measuring instrument / Måleinstrument:												
Weather conditions / Værforhold:												
Underpressure in the building / Undertrykk i bygningen: Pa												

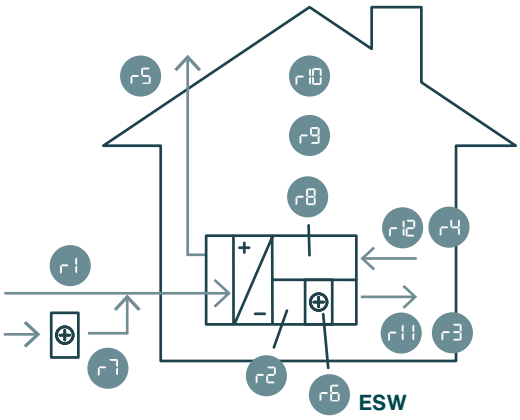
14. Quick reference guide for the installer



C1		36% (20-100%)	C12		10 min (5...15 min)	C23	%RH	on (on / oFF)
C2		35% (20-100%)	C13		oFF (on / oFF)	C24	°C %RH	4°C (-10...+10°C)
C3		56% (20-100%)	C14		4 (4 / 6)	C25	%RH	45% (10...100%RH)
C4		55% (20-100%)	C15		oFF (on / oFF)	C26	48h %RH	=>on, 48 h %RH + c26, 15% (5...30%)
C5		83% (20-100%)	C16	<°C	=> on, TE01 < °C, 5°C (0...10°C)	C27	%CO2	oFF (on / oFF)
C6		80% (20-100%)	C17	>°C	=> off, TE01 > (c16 + c17), 1°C (1...5°C)	C28	%CO2	CO2=> on, 1000 ppm (600...1200)
C7		100% (20-100%) (120 min)	C18		on on / oFF	C29	%RH	oFF (on / oFF)
C8		100% (20-100%) (120 min)	C19	>°C	=> on, TE01 > °C, 17°C	C30		oFF (on / oFF)
C9		2 h (1...4 h)	C20	>°C	=> on, TE01 > °C, 20°C (15...25°C)	C31	eWind Modbus	1 (1...99)
C10		30% (20-100%)	C21	<°C	=> off, TE01 < (c20 - c21), 2°C (1...5°C)	C32	Modbus	2 (1=9600, 2=19200, 3=115200)
C11		50% (20-100%)	C22	<°C	-15°C (-10...-20°C)			







r1	°C	TE01
r2	°C	TE05
r3	°C	TE10
r4	°C	TE30
r5	°C	TE32
r6	°C	TE45
r7	°C	TE02
r8	%RH	RH30
r9	%CO2	
r10	°C	
r11	°C	
r12	η%	

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