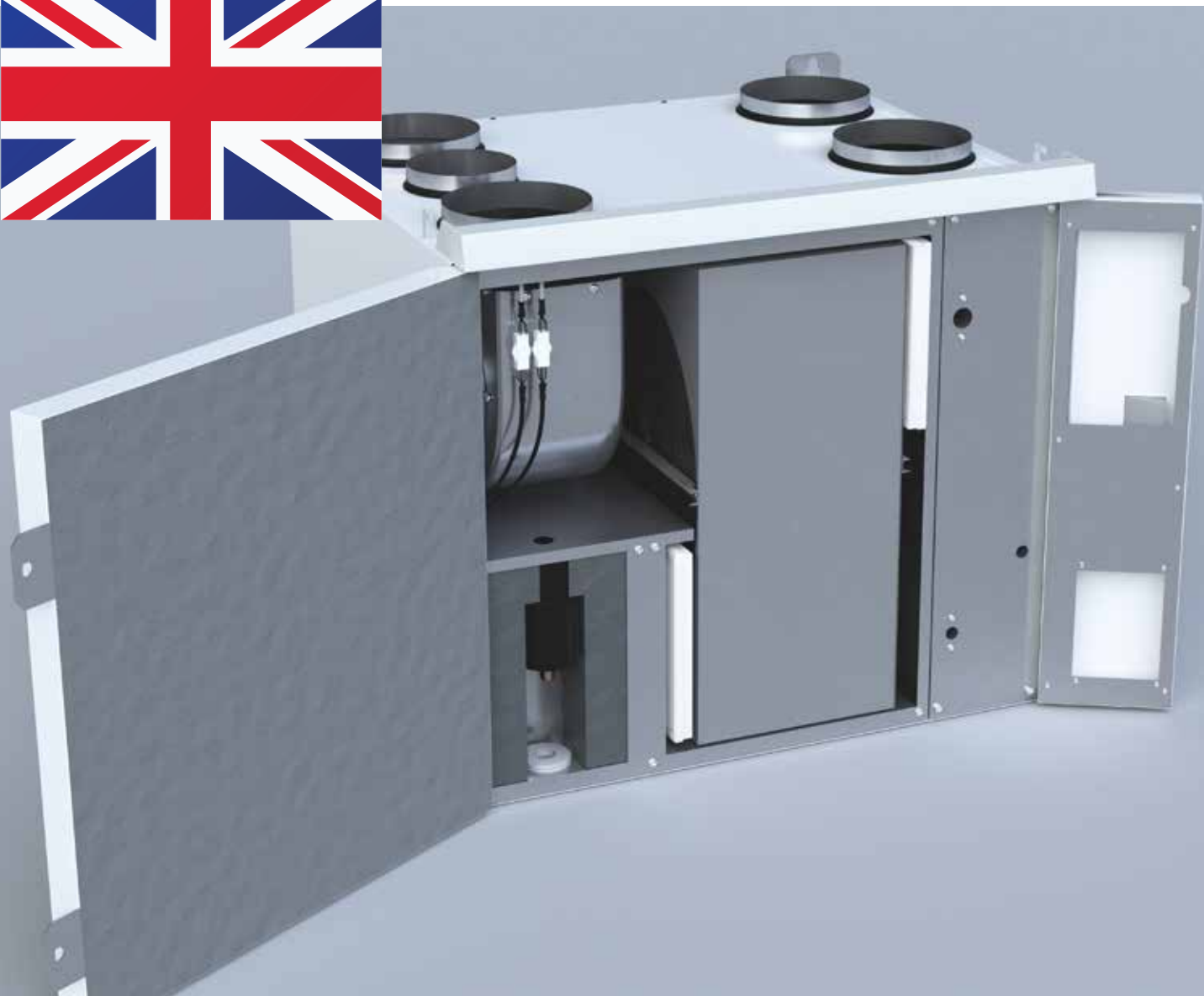


# Salla eWind

Installation instructions for the ventilation unit





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## READ FIRST

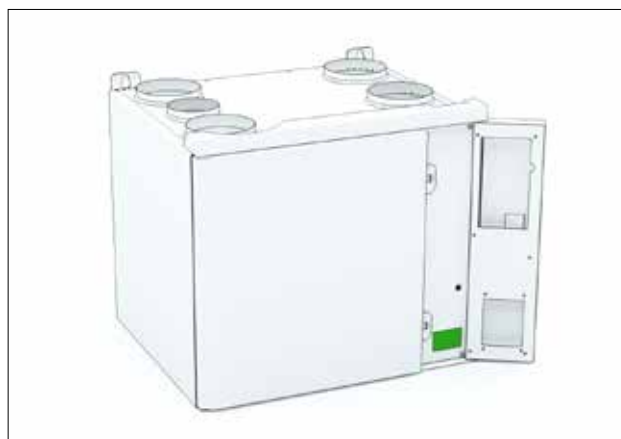
This instruction manual is intended for all the persons involved in the installation of the Enervent ventilation units. Only qualified professionals may install the equipment described in this manual in accordance with the instructions in this manual and the local laws and regulations. If the instructions 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.

## TYPE PLATE



Type label



1234567890

Ventilation unit

TYPE:

W/ V/ HZ/ A: 1141/230,1~/50/6.1



[www.enervent.com](http://www.enervent.com)



IP 20



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

# SAFETY

---

## General information

### DANGER

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

### WARNING

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

### WARNING

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.

## Electrical safety

### DANGER

Only an authorised electrician may open the electrical box.

### DANGER

Follow the local regulations on electrical installations.

### CAUTION

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.

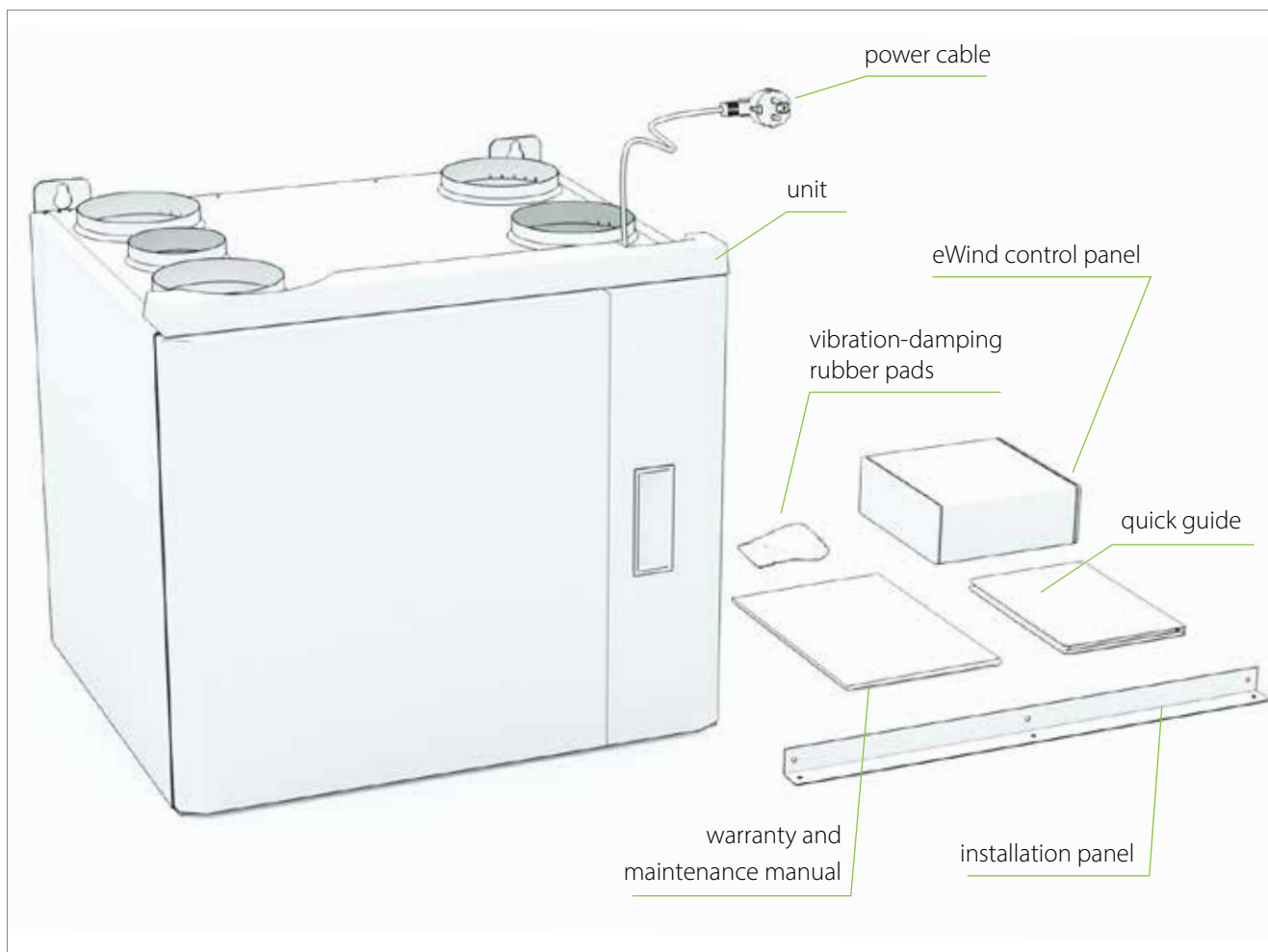
### CAUTION

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

### CAUTION

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

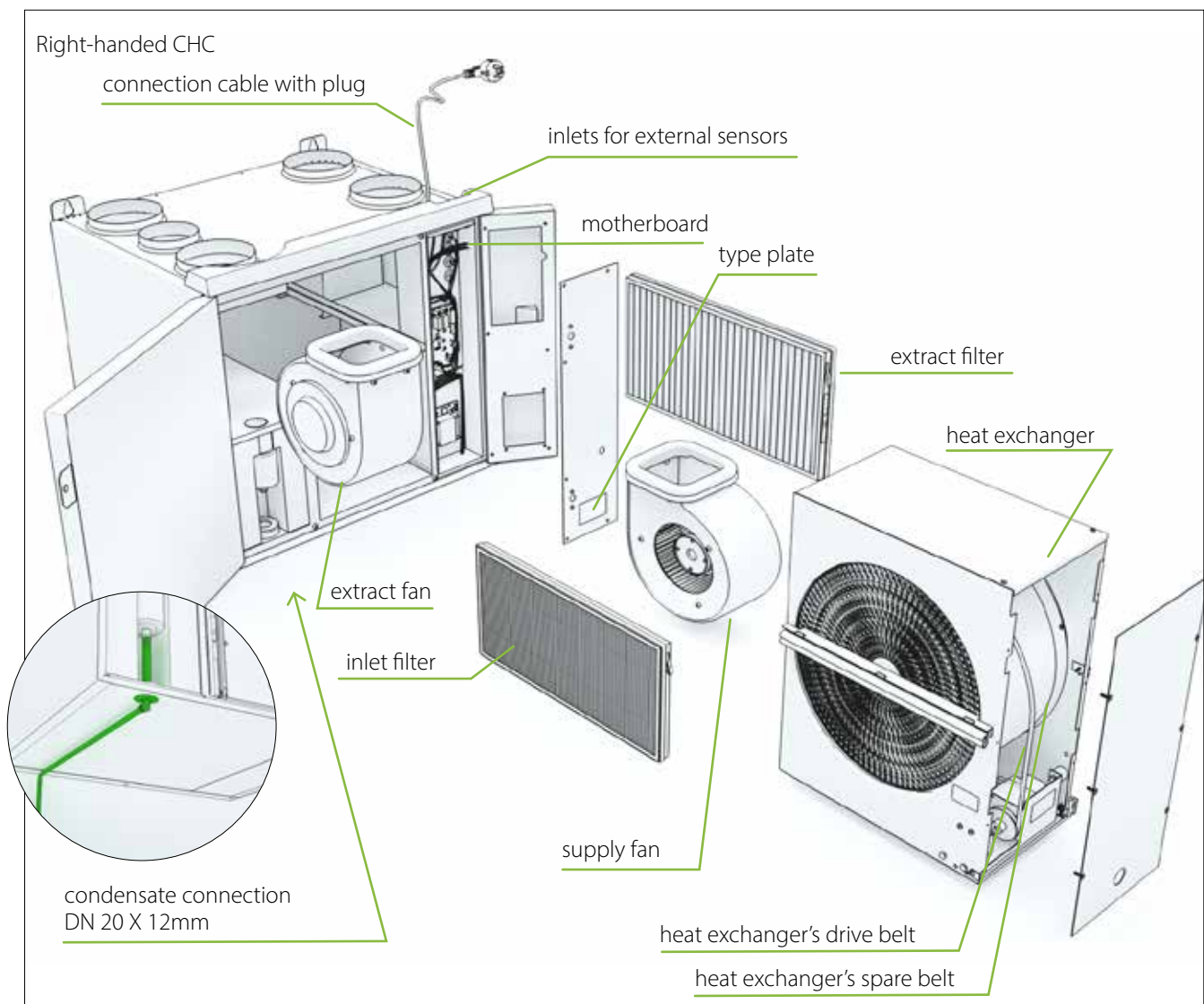
## CONTENTS OF THE DELIVERY



### Available accessories

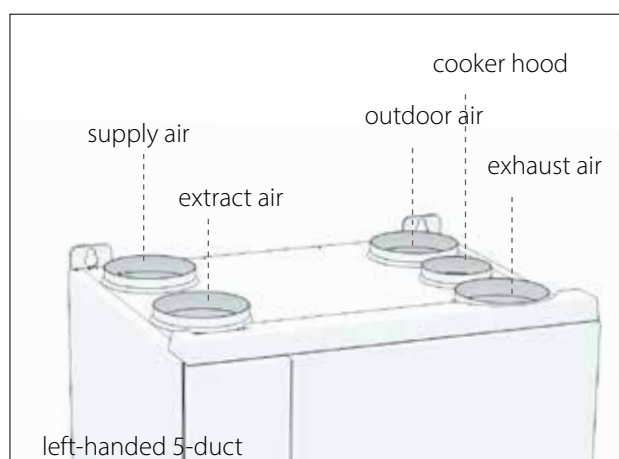
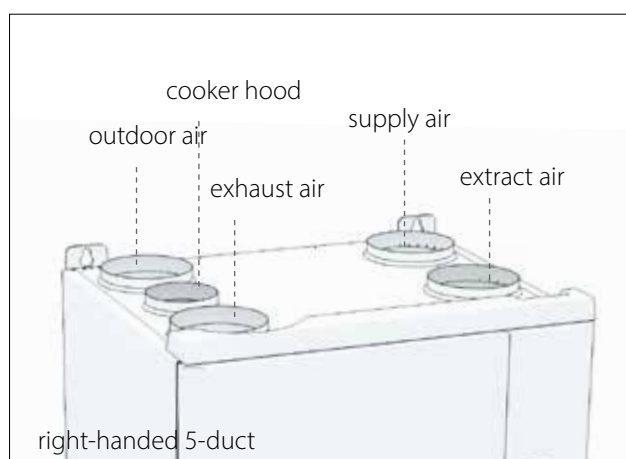
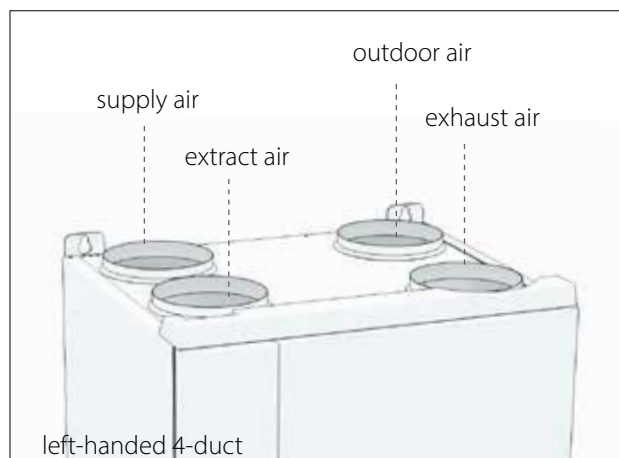
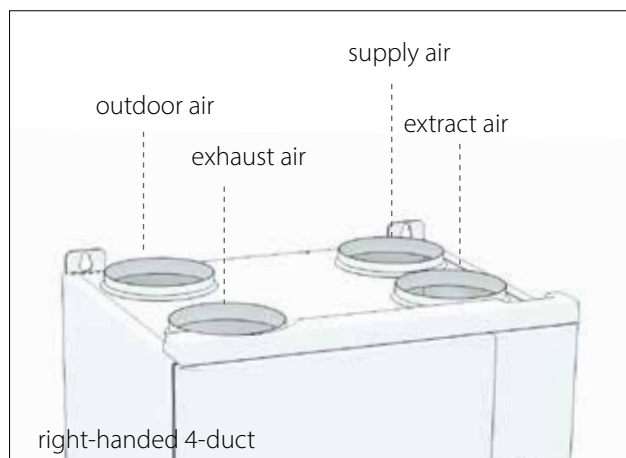
Product number	Product name
K240130301	Range hood Standard Plus white
K240130302	Range hood Standard Plus stainless steel
K240130201	Range hood Premium white
K580040001	eWind controller. The package contains a controller, surface mounting box and a 10-metre cable
K930030004	CO <sub>2</sub> carbon dioxide transmitter for the room 0–10 V/24 V
K930030006	%RH humidity transmitter 0–10 V/24 V
M230110002	Humidity transmitter duct mounted KLK100
K930030008	Overpressure push button 'fireplace switch'/boost
K930030029	KNX bus adapter
K900010010	Water trap Enervent Salla

# TECHNICAL SPECIFICATIONS OF THE UNIT



Width	580 mm
Depth	500 mm
Height	490 mm
Weight	45 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
Power of electric pre-heating coil in Arctic models	800 W/230 V, 1~/50 Hz/3.5 A
Input power, E-model (post-heating coil)	641 W/230 V, 1~/50 Hz/3.78 A
Input power E Arctic model (post-heating and pre-heating coil)	1441 W/230 V, 1~/50 Hz/7.26 A
Circuit breaker	B10 A
Mains supply	230 V, 1~/50 Hz/10 A

## Duct connections



## Checking the handedness in the type plate

Right-handed 4-duct



Left-handed 4-duct



Right-handed 5-duct



Left-handed 5-duct



# BEFORE INSTALLATION

---

## 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.

### WOULD YOU LIKE TO KNOW MORE?

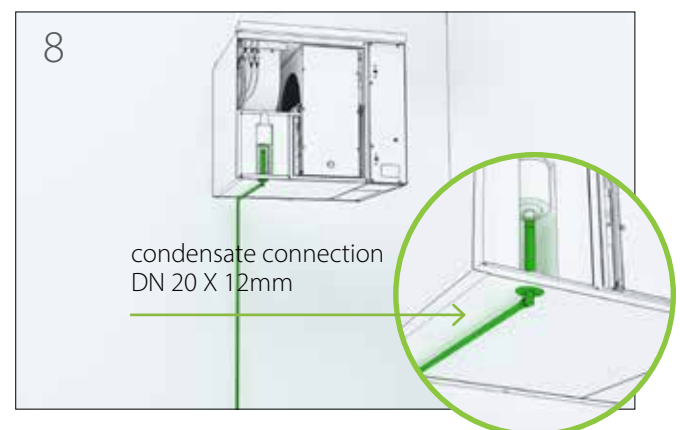
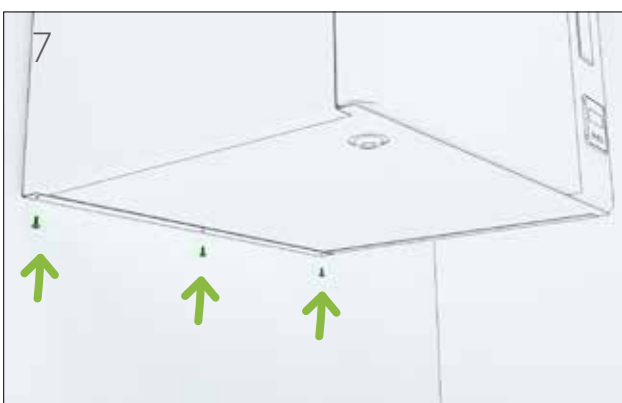
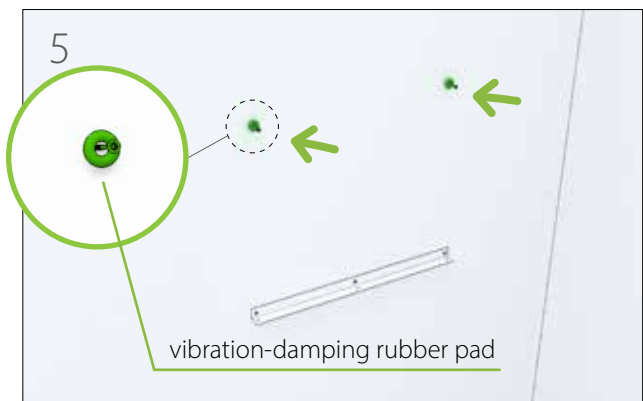
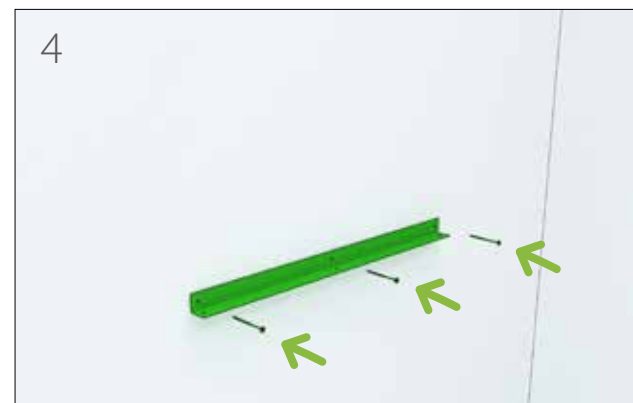
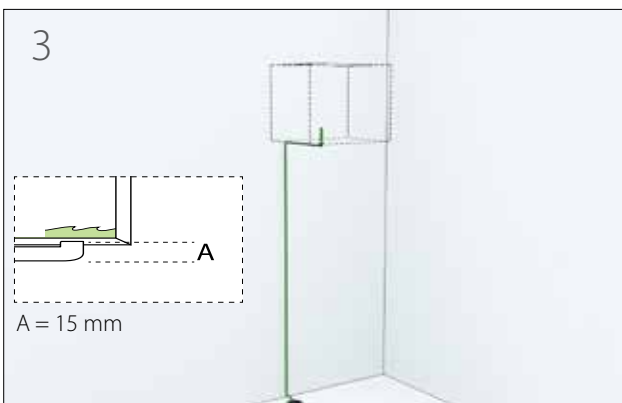
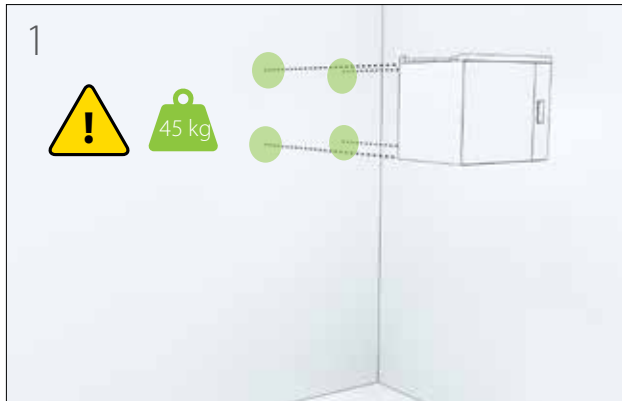
If you would like to know more about the construction of ventilation systems and the insulation of ventilation ducts, you can read about them on our website at [www.enervent.com](http://www.enervent.com).

## FOR YOUR INFORMATION

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

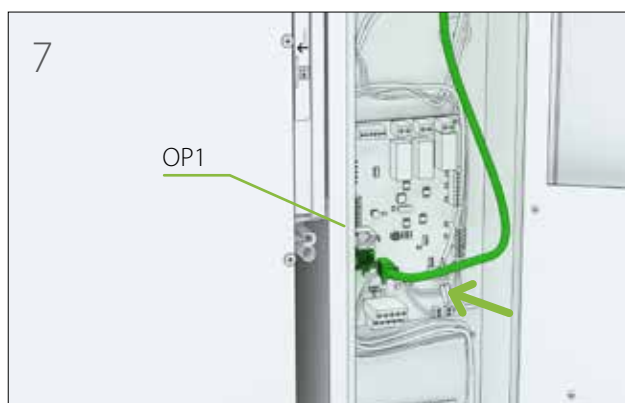
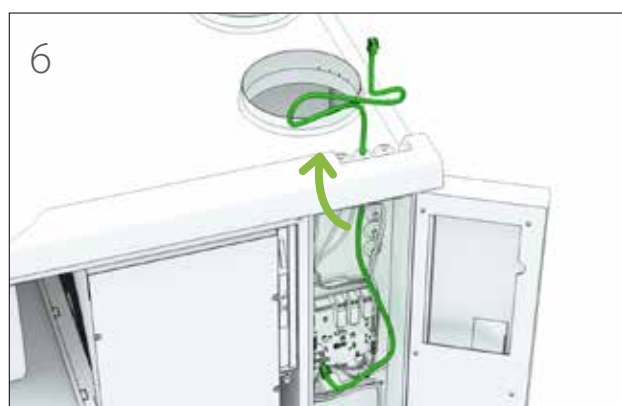
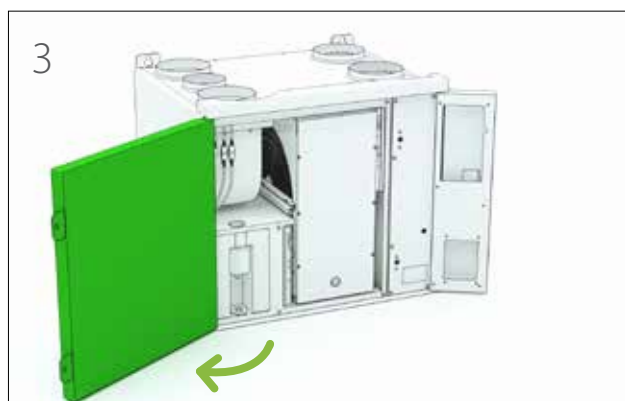
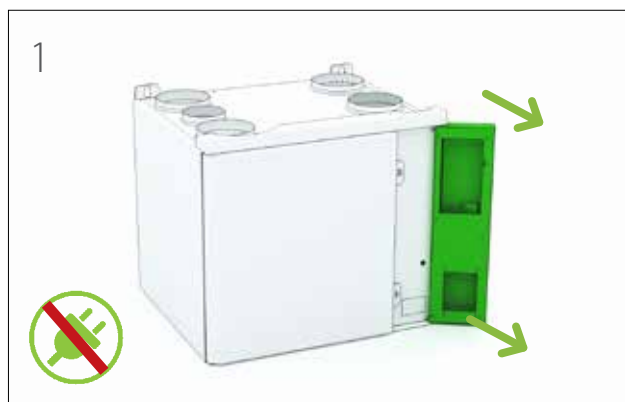
## INSTALLATION

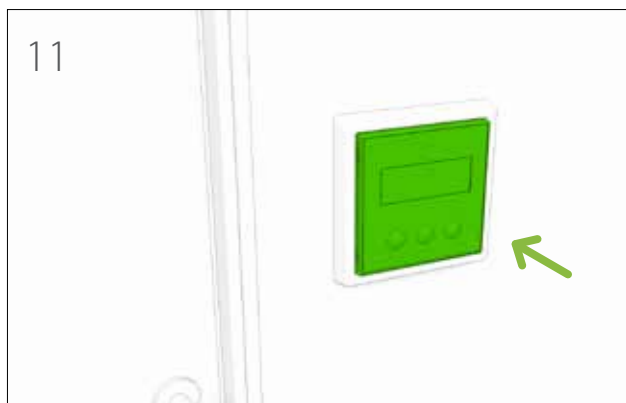
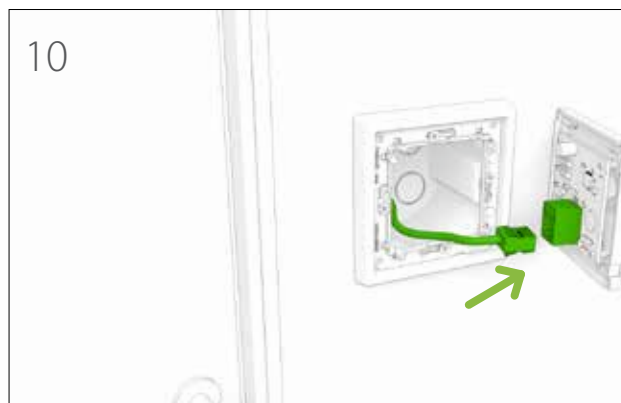
### Wall installation without a bracket



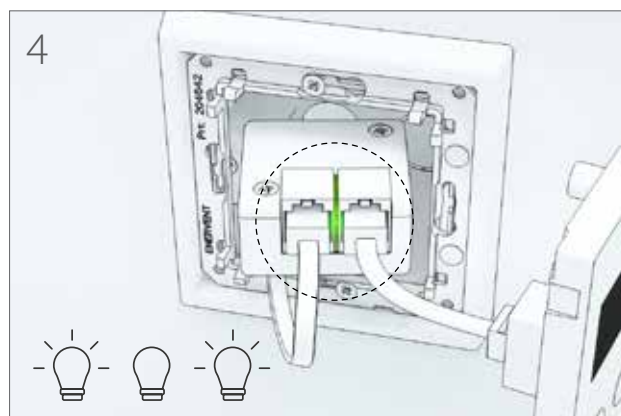
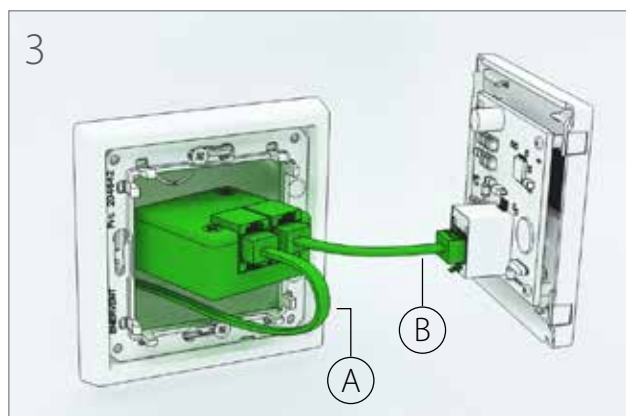
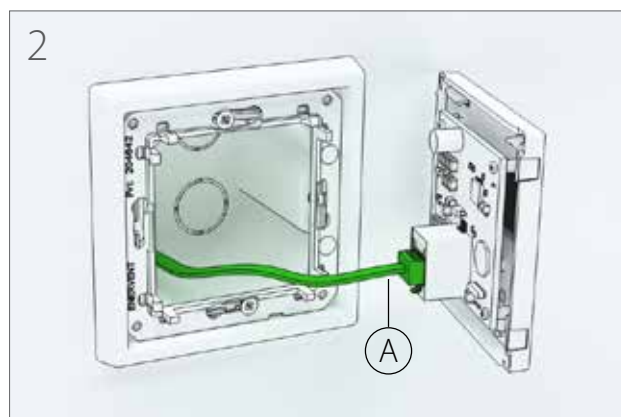
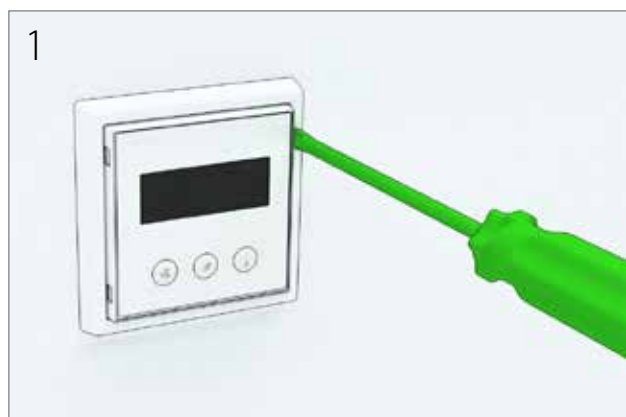
## Installation of the eWind control panel

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.





## Installation of the Wifi module



## Installation to the Modbus bus

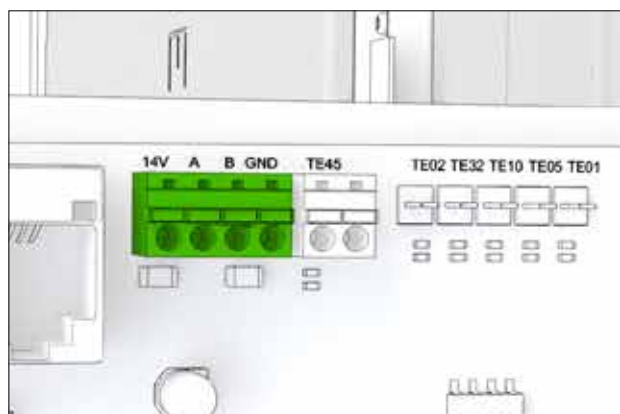
The ventilation unit can also be controlled via the Modbus connector X26.

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](http://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.

## 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 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 by pressing button .
- 6 Exit the settings by simultaneously pressing buttons  and .

# COMMISSIONING

## 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

## 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.

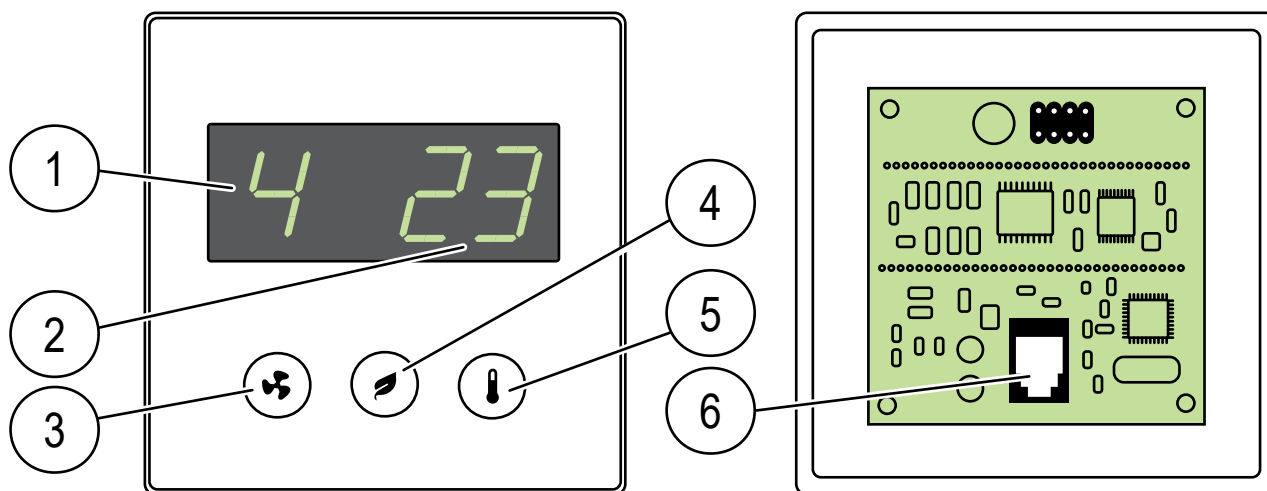
To achieve optimum adjustment values, the air flows must be measured at each duct opening. A suitable measurement device is a thermoanemometer or a differential pressure gauge. With the aid of the measurement values, the air flow can be adjusted to match the design values.

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.

## 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. <b>NOTE:</b> 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.		

## 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 |

### 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.

### 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 (fan icon) and (thermometer icon) three times.
- 2 Using buttons (fan icon) and (leaf icon), 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 (thermometer icon) for 3 seconds.
- 4 Change the parameter value using buttons (fan icon) and (leaf icon).
- 5 Confirm the value and return to the selection of parameters c1-c32 by pressing button (thermometer icon).
- 6 Exit the settings by simultaneously pressing buttons (fan icon) and (thermometer icon).

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	
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 of humidity, on/off	On		Coil 19	





Parameter list					
Parameter	Description	Factory setting	Note	Modbus register	Field setting
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 of 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	

## Data display



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

### 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

## 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.

## 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:

- 1 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

## Commissioning documentation

- Fill in the warranty information.
- Mark the changes you have made to the factory settings in the column **Field setting** in the table 'Parameter list' on page 88.
- 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).

# TROUBLESHOOTING

## If there is an alarm

Problem	Reason	Help	Solution
<b>FILS</b> Service reminder	Normal påminnelse med 4 eller 6 månaders intervall (avhengig av aggregat modell)		Change the filters and clean the unit from the inside and check if the unit is working.
<b>Err</b> 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 representative.
<b>oFFE</b> Stop mode	The internal alarm of the heat pump unit is active.		Find out the status of the external control system.  Contact a service representative.
<b>AL1</b>  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 exchanger's 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 representative.
	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 supply air filter.
	The water heater's valve actuator is broken.		Contact a service representative.
	The circulating water pump has stopped.	Check if the heating/cooling circulation pump is on.	Start the pump, contact a service representative 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 representative.
	The heat exchanger belt wheel has come loose from the axle.	Check the heat exchanger rotor from the belt control hole if the axle is rotating freely and the belt wheel is stationary.	Tighten the belt wheel screw.  Contact a service representative.

Problem	Reason	Help	Solution
<b>AL2</b> 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 exchanger's 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 representative.
<b>AL3</b> 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 supply air filter.
	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 representative.
	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 representative.
<b>AL4</b> 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 representative.
<b>AL5</b> 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 representative.

Problem	Reason	Help	Solution
<b>AL6</b>  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 representative.
	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 representative.
	The ventilation unit's door is open		Close the door.  Contact a service representative.
	Low room temperature		Nosta huonelämpötilaa.  Contact a service representative.
	TE-30 error in the temperature sensor		Contact a service representative.
<b>AL7</b>  Supply air hot. Risk of fire.	Error in the electrical after heater		Contact a service representative.
	The water heater's valve actuator is broken		Contact a service representative.
	TE-10 error in the temperature sensor		Contact a service representative.
	Fire risk		Contact a service representative.
<b>AL8</b>  Electrical re-heater or pre-heater overheating	Error in the electrical after heater		Contact a service representative.
	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 representative.
	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 exhaust filter.
	The outside air grille is clogged	Check if there is something blocking the outside air grille.	Clean the outdoor air grille  Contact a service representative.
	The heater controller card is broken		Replace the heater controller card  Contact a service representative.



## 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, machine directive MD 2006/42/EC, radio equipment directive RED 2014/53/EU, ROHS II directive 2011/65/EU, battery directive 2013/56/EU and waste electrical and electronic equipment directive WEEE 2012/19/EU.

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[enervent@enervent.com](mailto:enervent@enervent.com), [www.enervent.com](http://www.enervent.com)

Description of the product: Ventilation unit with heat recovery

Trade name of the product: Salla eWind E right, Salla eWind E left, Salla eWind E CHC right,  
Salla eWind E CHC left, Salla eWind E (D) right, Salla eWind E (D) left,  
Salla eWind E CHC (D) right, Salla eWind E CHC (D) left

The products are in conformity with the following standards:

**LVD** EN 60335-1:2012/A11:2014  
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  
EN 55014-1:2006/A2:2011 and EN 55014-2:1997/A2:2008

**RED** EN 300328 v2.1.1

**MD** EN ISO 12100:2010

**ROHS** EN 50581:2012

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

Product is CE-marked year 2019.

Porvoo 3rd of March 2019

Enervent Zehnder Oy

  
Tom Palmgren  
Technology manager

# Enervent Salla

A

PRODUCT INFORMATION ACCORDING TO  
EU COMMISSION REGULATION NO 1253/2014 AND 1254/2014

Supplier's name or trade mark	Enervent
Supplier's model identifier	Salla
Specific energy consumption (sec) in kWh/(m <sup>2</sup> .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 <sup>3</sup> /h	374
Electric power input of the fan drive, including any motor control equipment, at maximum flow rate (W)	211
Sound power level (L <sub>WA</sub> ), rounded to the nearest integer	40
Reference flow rate in m <sup>3</sup> /s	0,073
Reference pressure difference in Pa	50
SPI in W/(m <sup>3</sup> /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	<0,5% / <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	<a href="https://doc.enervent.com/op/op.ViewOnline.php?documentid=3067&amp;version=0">https://doc.enervent.com/op/op.ViewOnline.php?documentid=3067&amp;version=0</a>
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.

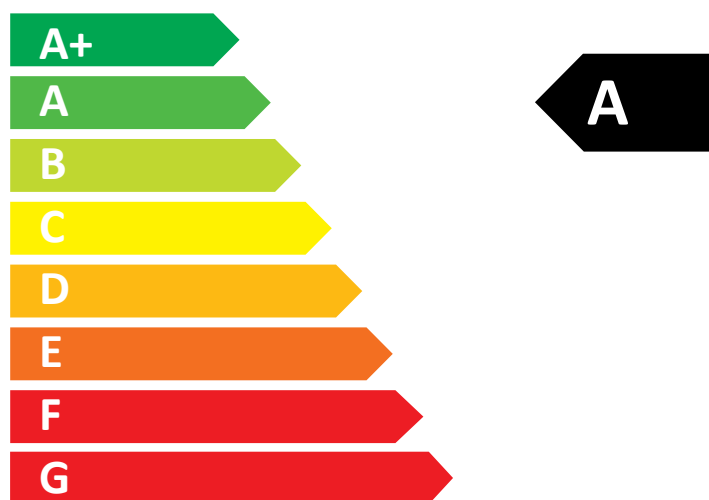
**enervent**



**ENERG**  
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**SALLA**



**40**  
dB



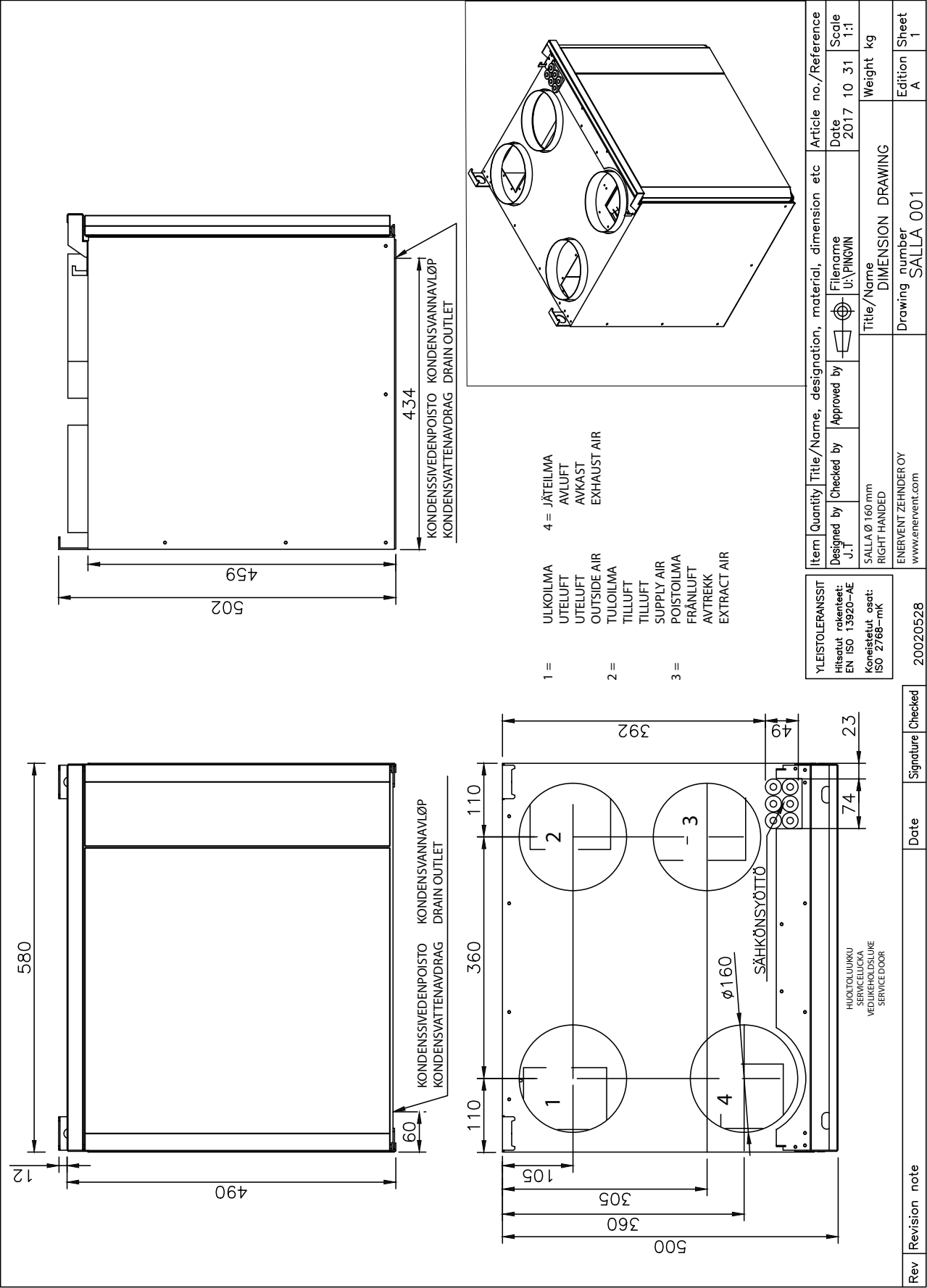
**374 m<sup>3</sup>/h**



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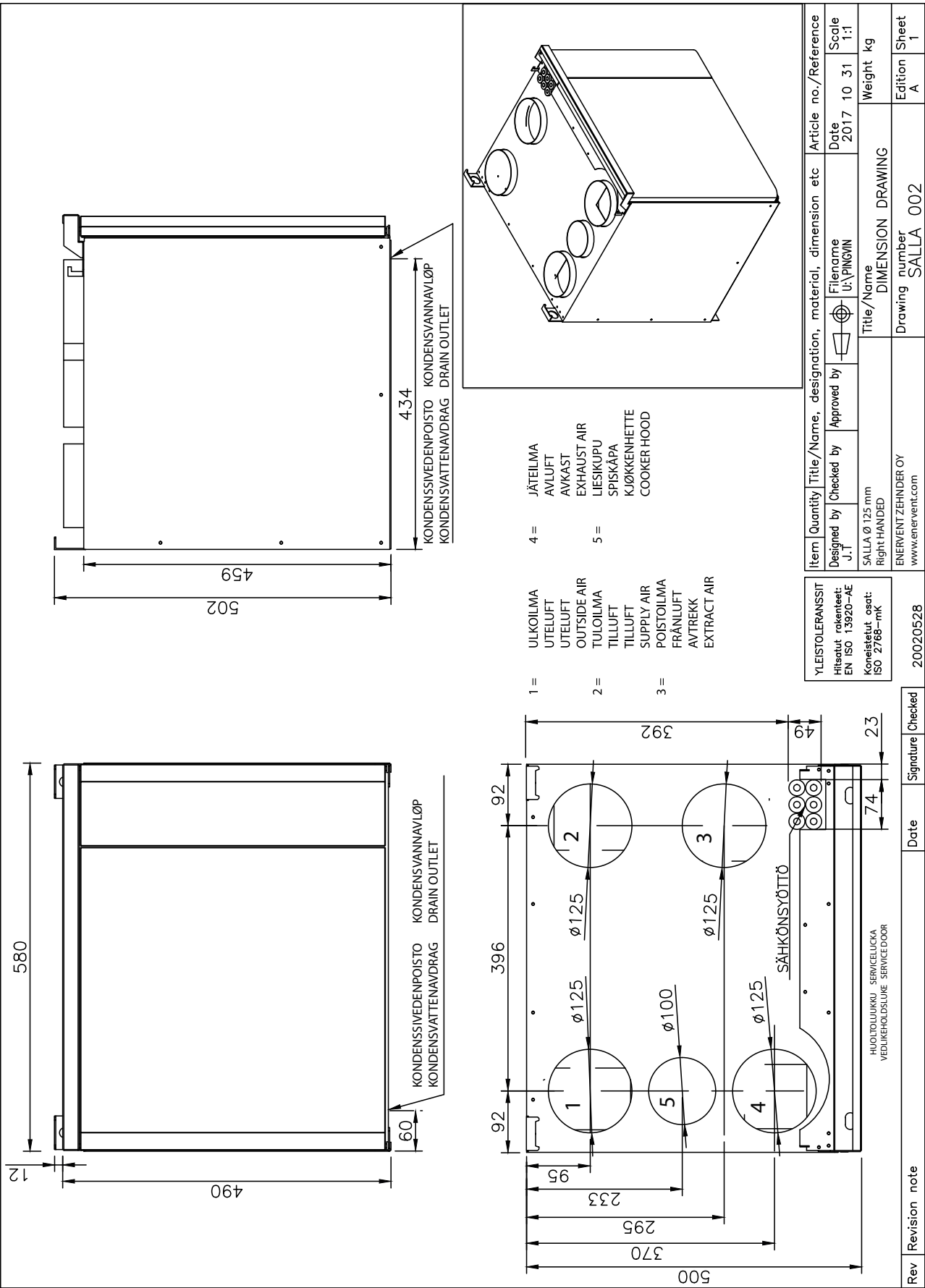
**2016**

**1254/2014**

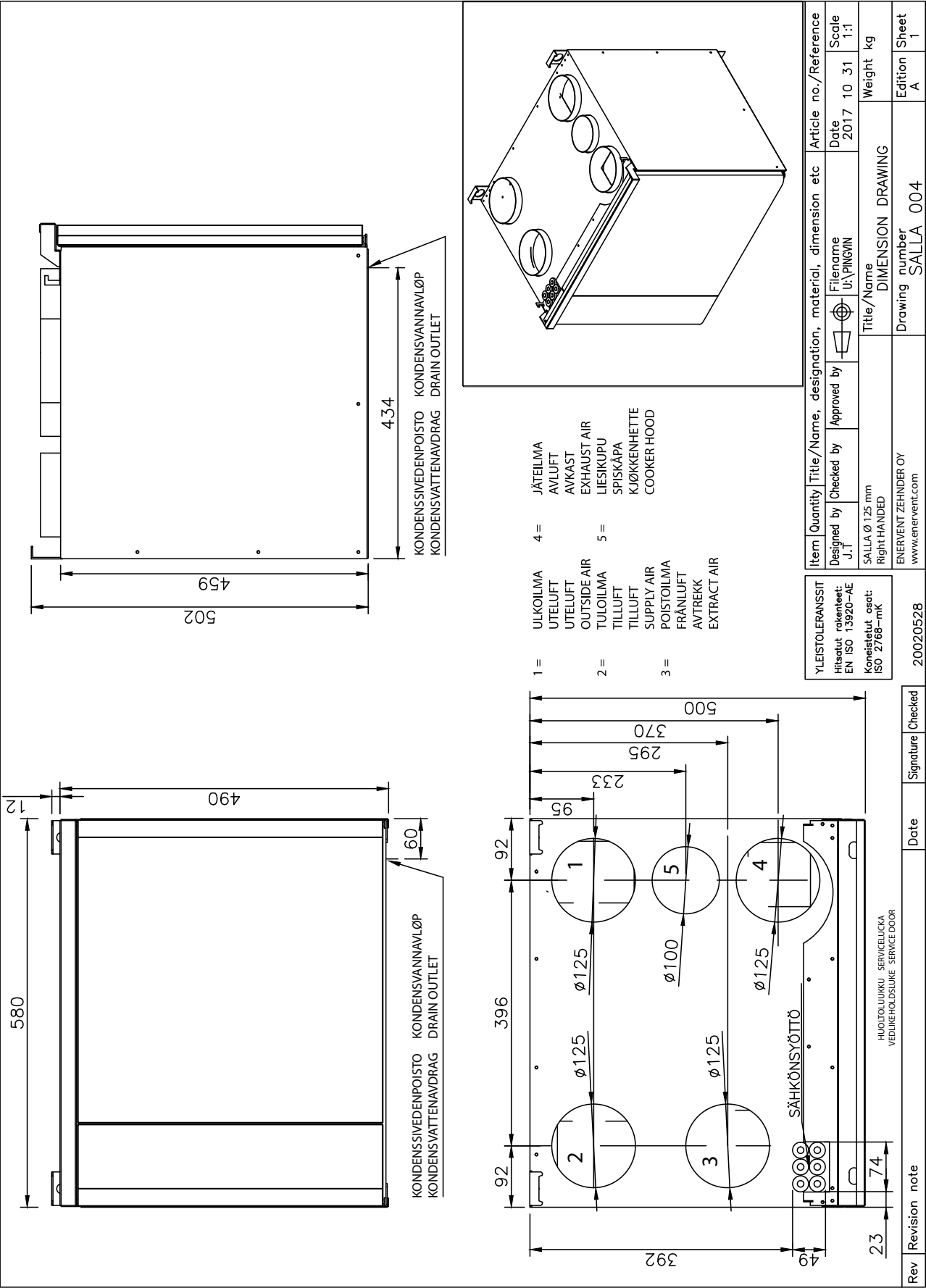


[illegible]

Technical dimensional drawing, 5-duct right-handed



Technical dimensional drawing, 5-duct left-handed



## Connections



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 <sub>2</sub>	EXTERNAL HUMIDITY SENSOR AS DEFAULT (RH 0–100%). IF PARAMETER c27 IS ACTIVE, CO <sub>2</sub> SENSOR (200–2,000 ppm) (ACCESSORY)	AI1
TL01 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 (1) INCLUDED IN THE DELIVERY, 10-M CABLE ALSO INCLUDED IF THE CONTROL PANEL HAS NOT BEEN INSTALLED IN THE VENTILATION UNIT	OP1
OP2	CONTROL PANEL (ACCESSORY), 10-M CABLE INCLUDED IN THE DELIVERY	OP2







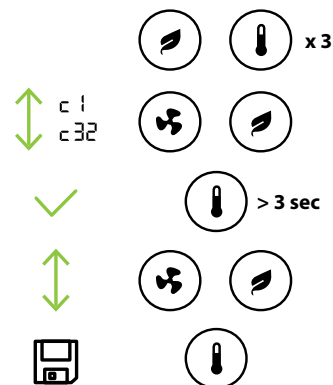
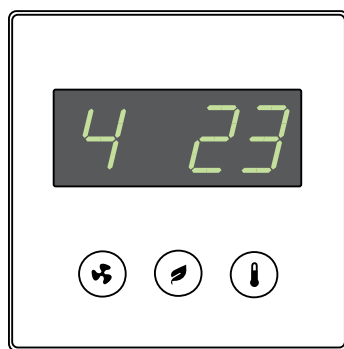


## Asentajan pikaohje

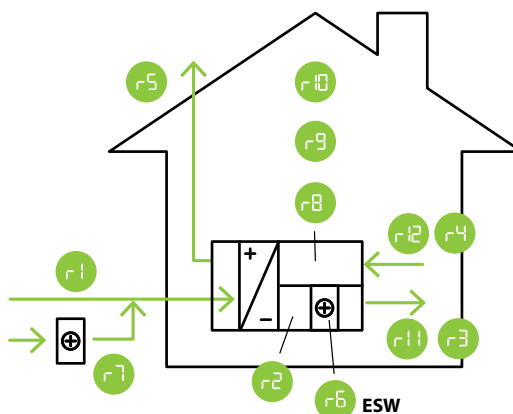
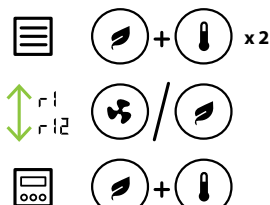
## Snabbguide för installatör

## Hurtigveiledning for montøren

## Quick reference guide for the installer



c1		36% (20-100%)	c13		oFF (on / oFF)	c23		on (on / oFF)
c2		35% (20-100%)	c14		4 (4 / 6)	c24		4°C (-10...+10°C)
c3		56% (20-100%)	c15		oFF (on / oFF)	c25		45% (10...100%RH)
c4		55% (20-100%)	c16		=> on, TE01 < °C, 5°C (0...10°C)	c26		=> on, 48 h %RH + c26, 15% (5...30%)
c5		83% (20-100%)	c17		=> off, TE01 > (c16 + c17), 1°C (1...5°C)	c27		oFF (on / oFF)
c6		80% (20-100%)	c18		on on / oFF	c28		CO2=> on, 1000 ppm (600...1200)
c7		100% (20-100%) (120 min)	c19		=> on, TE01 > °C, 17°C	c29		oFF (on / oFF)
c8		100% (20-100%) (120 min)	c20		=> on, TE01 > °C, 20°C (15...25°C)	c30		oFF (on / oFF)
c9		2 h (1...4 h)	c21		=> off, TE01 < (c20 - c21), 2°C (1...5°C)	c31		1 (1...99)
c10		30% (20-100%)	c22		-15°C (-10...-20°C)	c32		2 (1=9600, 2=19200, 3=115200)
c11		50% (20-100%)						
c12		10 min (5...15 min)						



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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