



Ventilación inteligente



SIBER HRV/ERV EVO M



Installation Manual & User

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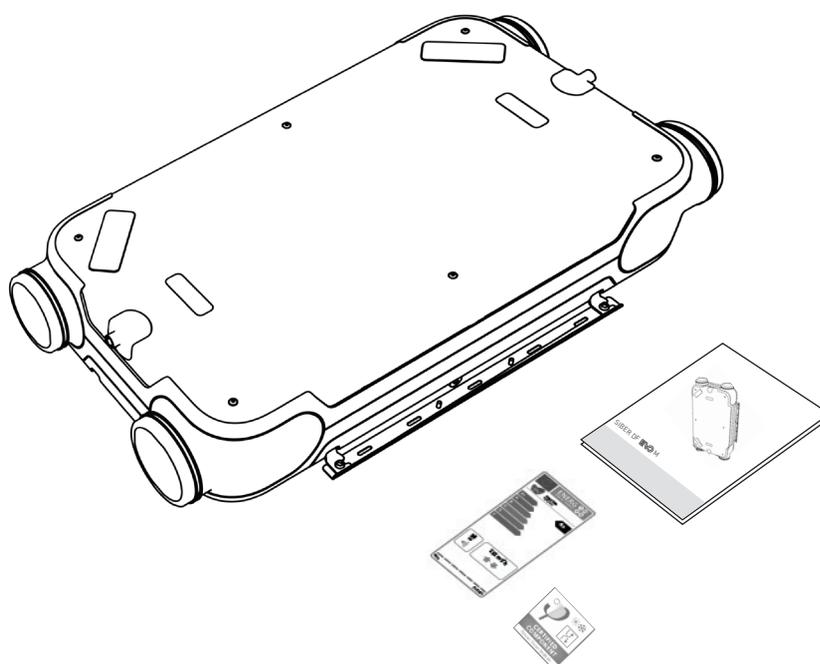
1 DELIVERY

1.1 CONTENTS OF THE DELIVERY

Before starting the installation of the Dual Flow VMC Unit with Thermal Energy Recovery, you should check whether it has been delivered complete and intact.

The delivery content of the VMC DF SIBER HRV/ERV EVO 1/2 M unit consists of the following items:

1. **VMC DF unit** with Thermal Energy Recovery SIBER HRV EVO 1/2 M - SIBER ERV EVO 1/2 M
2. **Installation Manual**
3. **Eco design label**
4. **Installation guides**
5. **Bag with *silentblocks* and screws**



Unit supplied without regulating control [\[see section 1.2 for optional accessories\]](#)

* If the Unit has been delivered with any visible defects, such as dents or scratches, or if all the items and accessories listed above are not included, please contact your supplier.



The use of this Unit is not authorised for persons, including minors, with reduced intellectual capacities, limited physical capacities, or lack of experience and necessary knowledge, unless they are under the supervision of, or have been instructed by a person responsible for their safety, in the use of the Unit.



In any case, children should be monitored to ensure that they do not play with the Unit.

1.2 OPTIONAL ACCESSORIES FOR SIBER HRV/ERV EVO 1/2M

DESCRIPTION	IMAGE	CODE
G4 FILTER COARSE 65%		DFFG4
F7 FILTER ePM1 55%		DFFF7
G4 + F7 FILTER COARSE 65% - ePM1 55%		DFFG4F7
CARBON FILTER		DFFCA
F9 FILTER ePM1 80%		DFFF9
G4 + F9 FILTER COARSE 65% - ePM1 80%		DFFG4F9
Wireless 4-position pushbutton control		DFPULS4B
Wireless smart multi-control		DFEVOCTRL
Wireless smart humidity sensor		DFEVOHR
Wireless smart CO2 sensor		DFEVOCO2
RF - Ethernet communication gateway		DFEVORFETH
Connect Modbus master KNX converter		DFEVOCONNECT
Siber EVO APP Smart monitoring of equipment and indoor air quality		Connectivity via Ethernet gateway (DFEVORFETH)

2 APPLICATION

The SIBER HRV/ERV EVO 1/2M is a Double Flow Controlled Mechanical Ventilation Unit with a Thermal Energy Recovery Unit with an efficiency of up to 95%, a maximum ventilation capacity of 150 m³/h for the SIBER HRV/ERV EVO 1M and a maximum capacity of 200 m³/h for the SIBER HRV/ERV EVO 2; with low energy consumption fans for both and integrated ModBus.

Characteristics of the SIBER HRV/ERV EVO 1/2M unit:

- Integrated ModBus
- Continuous regulation of air flows by means of the control panel.
- Presence of a filter status indicator on the Unit and the possibility of filter status indication on the position selector.
- New smart anti-icing regulation ensures that the unit continues to operate optimally even at low temperatures. If necessary, switch on the pre-heating battery(optional accessory).
- Low noise level.
- Equipped as standard with a by-pass valve with automatic operation.
- Constant flow regulation.
- Energy saving.
- High Performance.

The SIBER HRV/ERV EVO 1/2M is available in 4 versions:

- **SIBER HRV EVO 1M & 2M**
- **SIBER ERV EVO 1M & 2M**
- **SIBER HRV EVO 1M & 2M PR**
- **SIBER ERV EVO 1M & 2M PR**

These installation instructions apply to all versions described above.

The SIBER EVO 1&2 can be wall or ceiling mounted, with the standard fixing brackets included.

For the correct position of the duct connections and their dimensions, [\[see section 3.3\]](#).

The unit comes with the right-hand version by default. It can be changed to the left-hand version with one simple step using the "mirror" function [\[see section 3.3\]](#). This versatility is not available in models with a built-in preheater (HRV EVO 1M&2M PR and ERV EVO 1M&2M PR).

2.1 IMPORTANT WARNINGS FOR CORRECT INSTALLATION

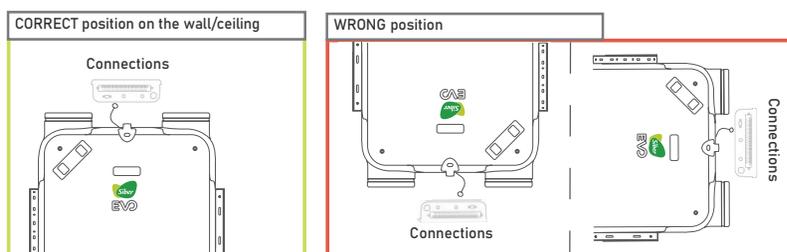


Important! Do not install the unit outdoors without adequate protection against inclement weather such as rain, extreme frost, saline environments, etc.).



Important! When mounting the unit on a wall, **do not install it in horizontal position.**

In the case of wall mounting, **when installed in vertical position, place the printed circuit board connector at the top. The printed circuit board must never be at the bottom.**



Important! For the correct efficiency of the ventilation system, it is recommended to not disconnect the unit, except for maintenance

3 MODEL

3.1 TECHNICAL SPECIFICATIONS

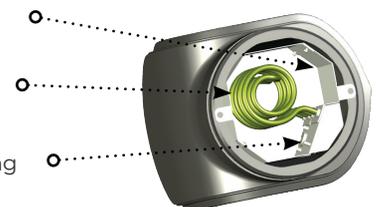
SIBER EVO 1M					
Mains voltage	230 V/ 50 Hz				
Degree of protection	IP 44				
Dimensions (l x h x d)	1000 x 600 x 210 mm				
Connection diameter	160 Ø				
Condensate drain diameter	1/2"				
Weight	24 kg				
Filter class	Coarse 65% (G4)				
Fan position (standard)					Boost mode
Wireless Smart Multi-Controller (optional)	0	1	2	3	Maximum
Ventilation flow rate (m ³ /h)	30	75	100	140	150

SIBER EVO 2M					
Mains voltage	230 V/ 50 Hz				
Degree of protection	IP 44				
Dimensions (l x h x d)	1000 x 600 x 210 mm				
Connection diameter	160 Ø				
Condensate drain diameter	1/2"				
Weight	24 kg				
Filter class	Coarse 65% (G4)				
Fan position (standard)					Boost mode
Wireless Smart Multi-Controller (optional)	0	1	2	3	Maximum
Ventilation flow rate (m ³ /h)	30	75	100	150	200

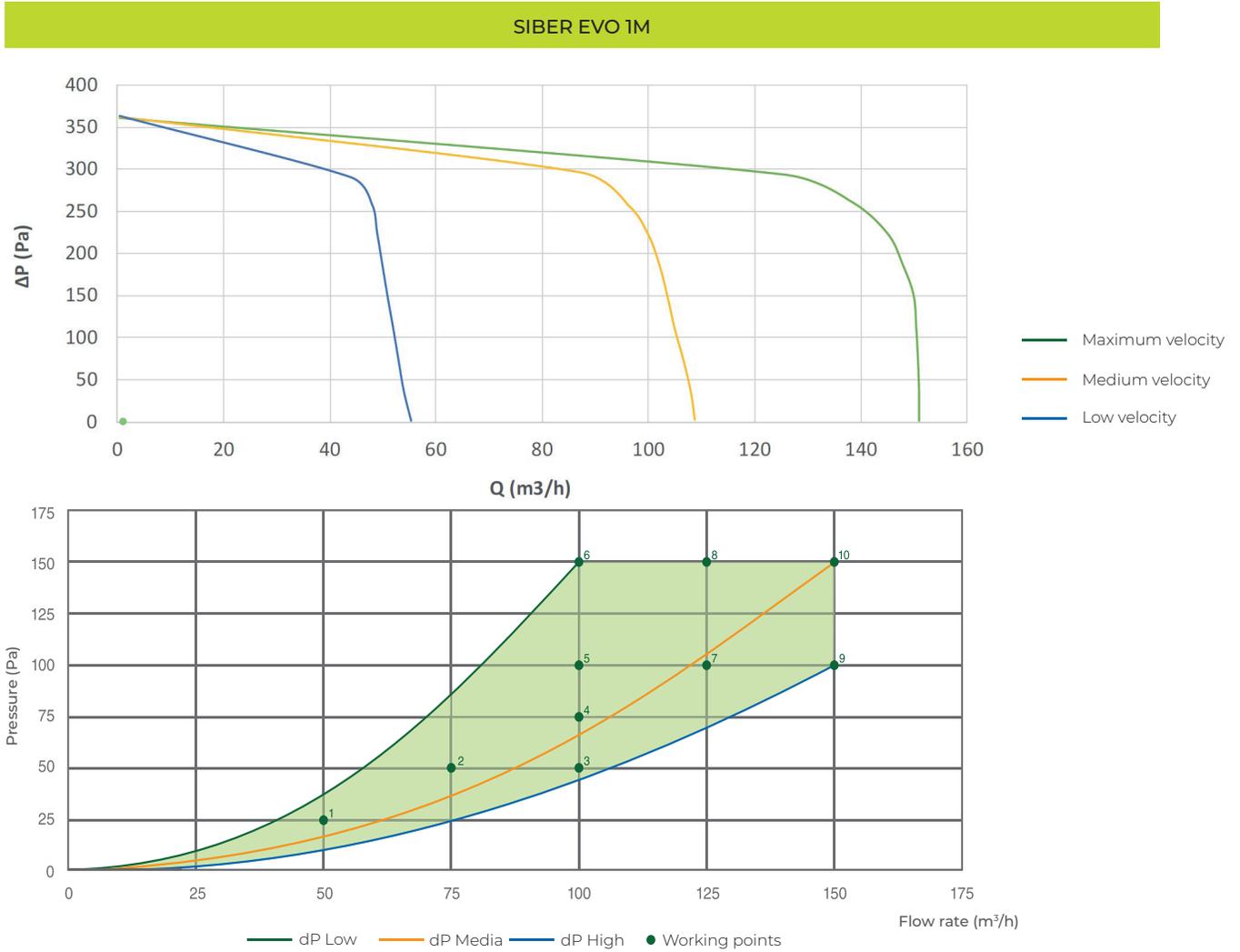
SIBER® HRV EVO 1M&2M PR and ERV EVO 1M&2M PR

The **1000 W** thermal power preheater, fitted as standard on these models and installed on the outdoor air inlet connection, raises the temperature of the air entering the unit to **10°C**, protecting its ventilation recovery core in cold climates.

- ✓ The casing is made of AluZinc coated steel, which is highly resistant to corrosion
- ✓ The resistors are made of AISI304L stainless steel. Power 1 kW
- ✓ Equipped with automatic protection clixon regulated at 40°C that prevents overheating



3.2. CHARACTERISTIC CURVES

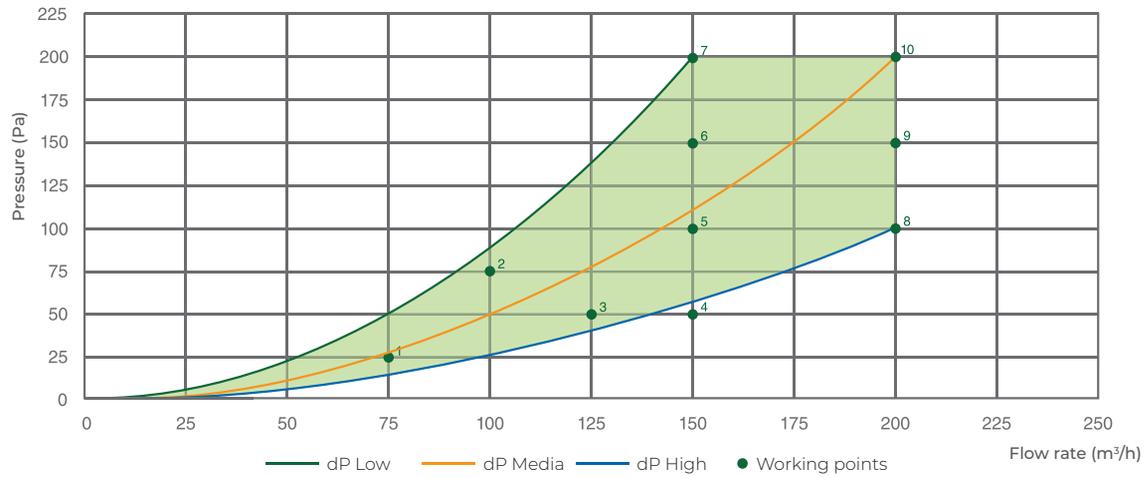
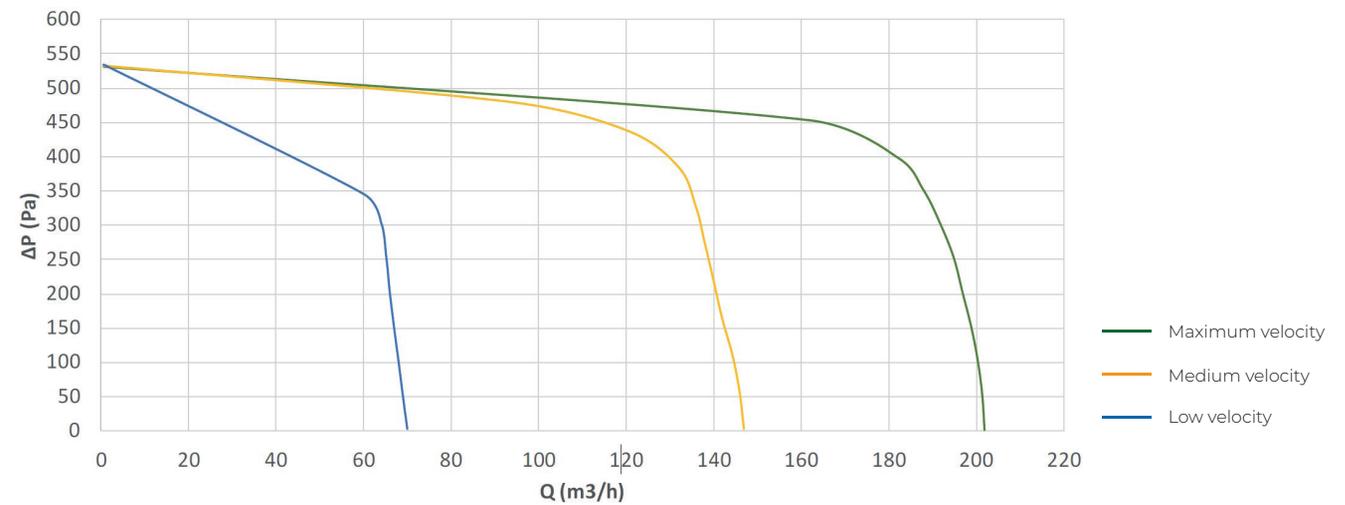


Working points	FLOW (m³/h)	PRESSURE (Pa)	POWER (W)	SFP (W/l/s)
1	50	25	9.24	0.67
2	75	50	15.37	0.74
3	100	50	20.55	0.74
4	100	75	24.52	0.88
5	100	100	28.87	1.04
6	100	150	37.62	1.35
7	125	100	37.13	1.07
8	125	150	46.07	1.33
9	150	100	48.14	1.16
10	150	150	58.25	1.40

Sound level SIBER EVO 1M

Airflow (m³/h)		50	75	100	150		
Sound level Lw (A)	Static pressure (Pa)	25	50	50	100	100	150
	Box irradiation (dB(A))	24	34	38	44	45	49
	Extraction duct (dB(A))	28	30	39	42	46	47
	Insufflation duct (dB(A))	42	50	53	56	61	64
Acoustic pressure Lp (A) at 1.5m	Box radiation (dB(A))	9	19	23	29	30	34

SIBER EVO 2M



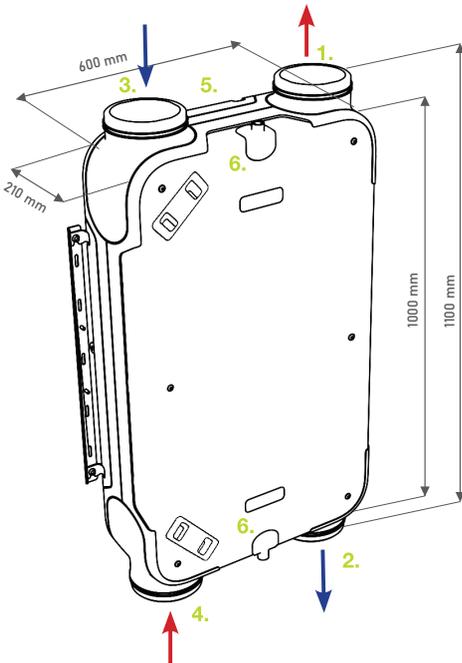
Working points	FLOW (m³/h)	PRESSURE (Pa)	POWER (W)	SFP (W/l/s)
1	75	25	12.61	0.61
2	100	75	25.31	0.91
3	125	50	29.16	0.84
4	150	50	39.20	0.94
5	150	100	49.65	1.19
6	150	150	60.92	1.46
7	150	200	72.60	1.74
8	200	100	81.33	1.46
9	200	150	93.10	1.68
10	200	200	106.48	1.92

Sound level SIBER EVO 2M

Airflow (m³/h)		75	125	150	200		
Accoustic power Lw (A)	Static pressure (Pa)	25	50	50	100	150	200
	Box irradiation (dB(A))	33	42	44	46	51	56
	Extraction duct (dB(A))	34	43	45	48	50	57
	Insufflation duct (dB(A))	46	51	59	62	65	66
Accoustic pressure Lp (A) at 1.5m	Box radiation (dB(A))	18	27	29	31	36	41

3.3 CONNECTIONS AND DIMENSIONS

SIBER EVO1/2M



LEGEND STANDARD VERSION*

1	Exhaust air
2	Fresh air supply to the dwelling
3	Fresh air intake from outside
4	Extraction of stale air from inside the dwelling
5	Electrical connection
6	Condensate drain connection

*Airflow model, right-hand version

Factory version

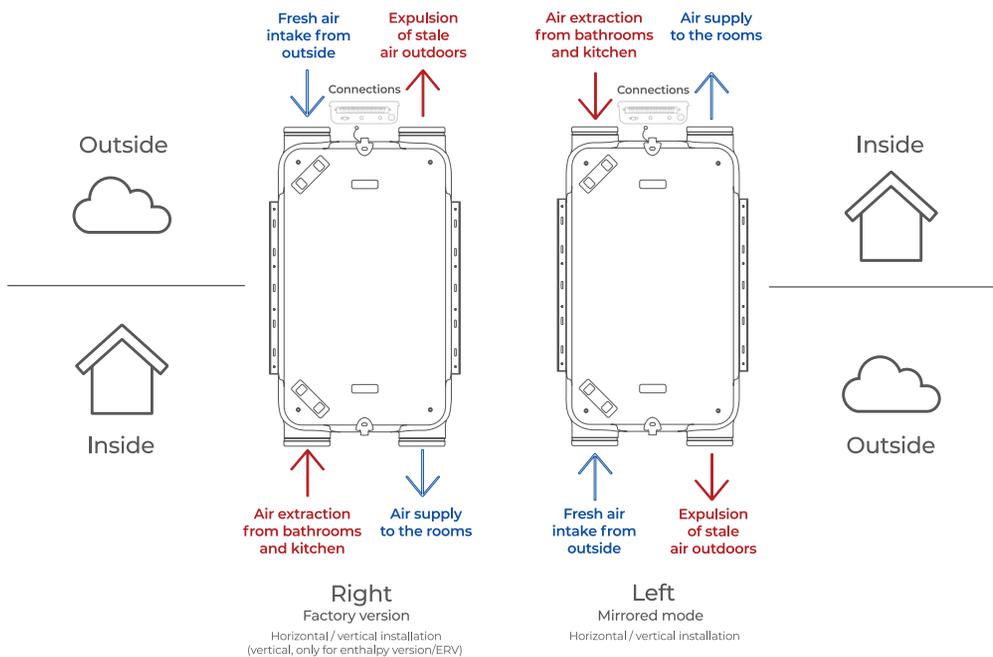
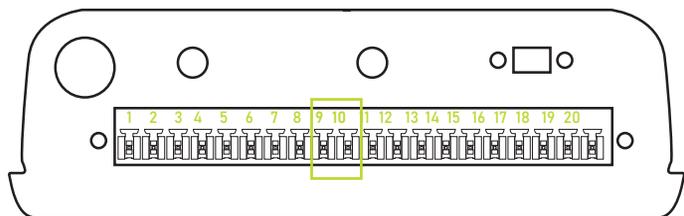
Horizontal/vertical installation

(Vertical installation only with enthalpy version)

MIRROR MODE VERSATILITY

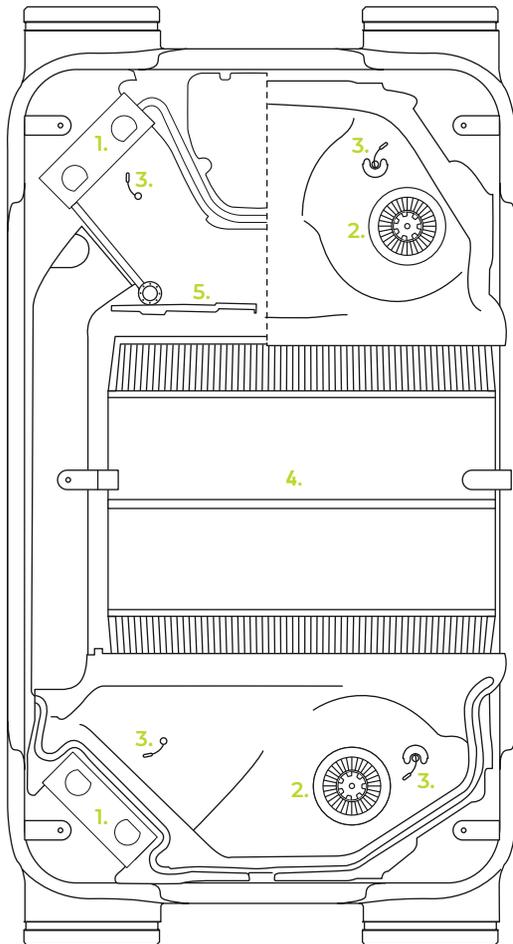
Important! To change the factory position (right), just jumper pin 9 - 10 with an electric cable and it will change to the left-hand version

Important! (*) This "mirror" mode is not available on the following models with preheater: HRV EVO 1&2 PR and ERV EVO 1&2 PR



3.4 EXPLODED VIEW OF THE UNIT

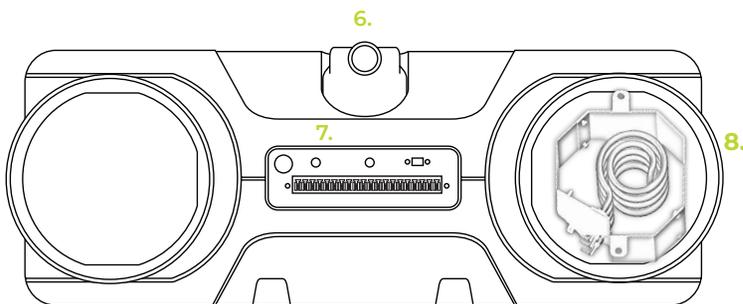
SIBER EVO 1M / 2M



LEGEND

1	High performance filters
2	Energy-efficient engines
3	Temperature probes
4	High-performance heat exchanger
5	100% automatic bypass
6	Swivelling condensate drain
7	Electrical connections
8	Preheater (*)

(*) Only included as standard on the following models:
HRV EVO 1M & 2M PR and ERV EVO 1M & 2M PR



4 OPERATION

4.1 DESCRIPTION

The unit is delivered ready to be connected to the power supply and works fully automatically. The stale air extracted from inside transfers the thermal energy (calories/B.T.U.s) to the fresh air coming from outside. This saves energy in air-conditioning, as the new, clean air is blown into the house at a conditioned temperature (cool in summer, warm in winter).

Depending on the type of control unit used, up to 5 ventilation positions are possible. The air flow rate is regulated by the regulating position. Constant volume control allows the air flow rate of the supply and extract fans to be obtained independently of the duct pressure.

4.2 BY-PASS CONDITIONS

The By-Pass fitted as standard allows fresh air to be blown in directly from outside without passing through the heat exchanger, so that the comfort temperature outside at any given time can be used, for example on summer nights when it is desirable for fresh air to enter from outside to cool the inside of the house (free-cooling).

The by-pass valve is automatically activated when a certain number of conditions are met (see table below for by-pass values).

By-Pass gate conditions	
By-pass valve open	<ul style="list-style-type: none"> • The outside temperature is higher than 10°C. • In summer, the outside temperature is 3°C lower than the temperature of the air extracted from the home, and lower than the comfort temperature. • In winter, the outside temperature is 3°C higher than the temperature of the air extracted from the home, and higher than the comfort temperature.
By-pass valve closed	<ul style="list-style-type: none"> • The outside temperature is below 10°C. • In summer, the outside temperature is higher than the temperature of the air extracted from the home, and higher than the comfort temperature. • In winter, the outside temperature is lower than the temperature of the air extracted from the home, and lower than the comfort temperature.



The unit automatically detects the season (winter/ summer) and this will work according to the by-pass temperature selected.

4.3 ANTI-ICE SECURITY

To prevent the formation of ice in the heat exchanger at very low outdoor temperatures, the SIBER DF EVO 1/2M is equipped with anti-icing protection.

Thermostatic probes measure the temperatures in the heat exchanger and if necessary a progressive unbalance is set in the automatic equipment.

Until **-2°C** (on models without a preheater: HRV EVO 1M & 2M and ERV EVO 1M & 2M) or **-16°C** (on models with a preheater: HRV EVO 1&2 PR and ERV EVO 1&2 PR) is reached, the unit will stop, checking if the temperature is suitable for operation every hour.

5 INSTALLATION

5.1 GENERALALITIES

The installation must be carried out in accordance with:

- Ventilation quality requirements for rooms (CTE HS3 - RITE 2007).
- Quality requirements for balanced ventilation of dwellings (CTE HS3).
- Requirements for the ventilation of rooms and dwellings (CTE HS3).
- Safety requirements for low voltage installations.
- Requirements for the connection of drains to sewage systems in the rooms and dwellings.
- Any additional requirements of local energy distribution companies.
- Installation instructions for the SIBER HRV EVO1/2M & ERV EVO 1/2M

5.2 POSITION OF THE UNIT

The SIBER HRV EVO1/2M & ERV EVO 1/2M can be fixed directly to the wall or ceiling thanks to the fixing brackets included for this purpose



Warning! Depending on the weight of the Unit, the installation should always be carried out by 2 persons.

For a vibration-free result, a wall or ceiling with a minimum mass of 200 kg/m² must be used as a suspension surface. It is not enough for the wall or ceiling to be made of concrete or metal structures. In these cases, additional measures will be necessary, such as double plate reinforcement or additional supports. The following points should be kept in mind:

- The Unit must be set level, both in length and width.
- The installation space should be chosen to allow for good condensate drainage, with a trap and a slope for condensate water.



Warning! Ensure that the condensate drain slope is not positive or parallel to the unit.

Warning! The unit is designed for wall or ceiling mounting only. Never install it directly on the floor.

- The installation space must be protected from the weather and frost.
- Ensure that there is sufficient space around and underneath the Unit to ensure that changing or cleaning the filter as well as maintenance of the Unit can be carried out properly

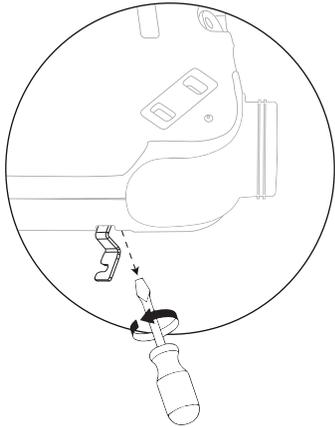
5.3 CEILING MOUNTING



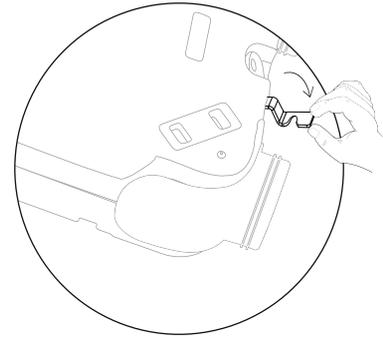
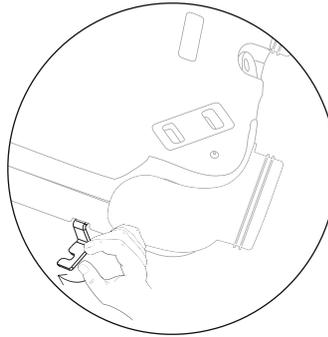
⚠ Important! For correct installation of the Unit on a ceiling [see also section 2.1, 5.2 and 7].

1 By default, the unit comes with the Silentblock Hooks fitted on the long side.
To switch to the short side, follow the steps below:

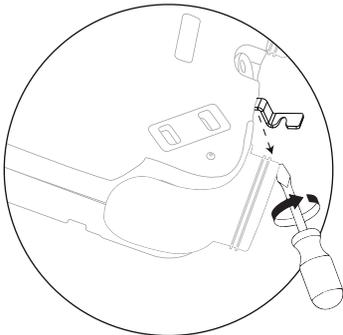
1.1 Unscrew the Silentblock Hooks



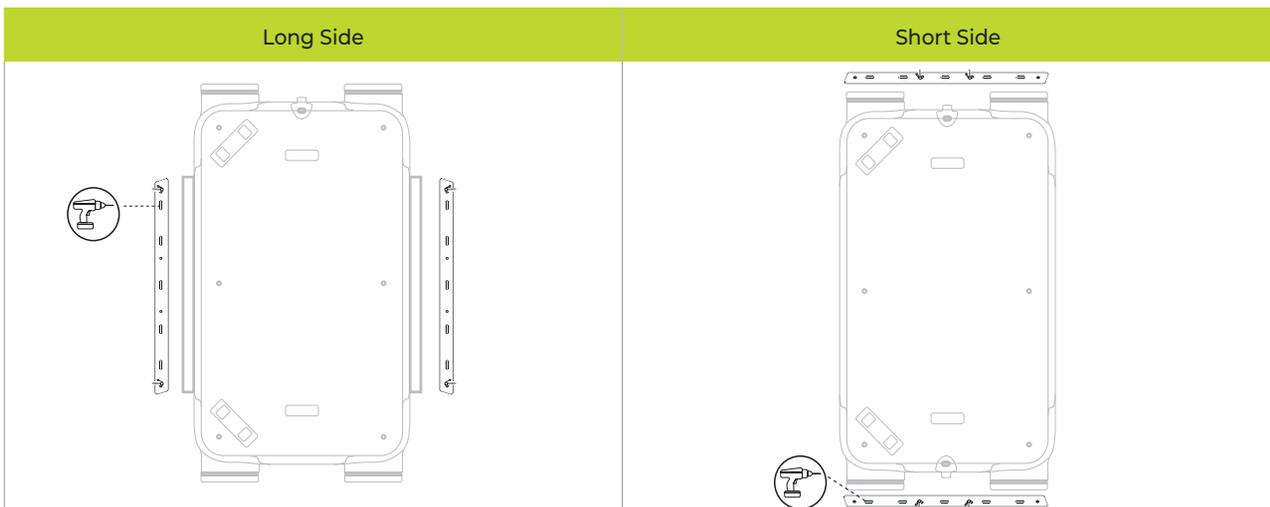
1.2 Replace the Silentblock Hooks to the short side, respecting the same direction.



1.3 Screw the Silentblock Hooks into the desired new position.

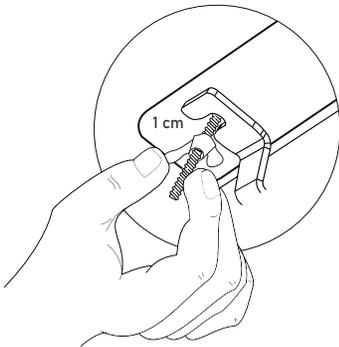


2 Drill the marked surface and screw the fixing brackets through the oval holes.

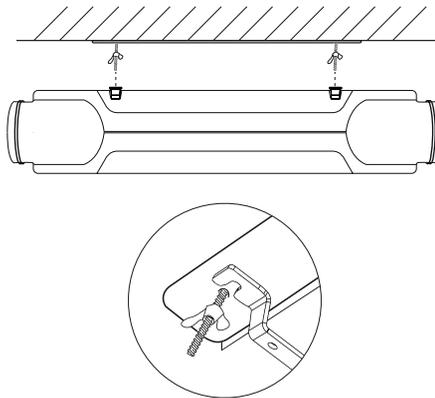


⚠ If the template is not used, the fixing brackets must be spaced 630 mm apart on the long sides (standard version) and 1,035 mm apart on the short sides.

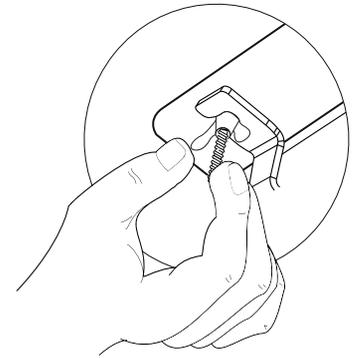
- 3 Loosen the wing-nuts and leave 1 cm of space



- 4 Place on top of the guide and slide until it engages with the threaded rod.



- 5 Tighten the wing-nuts



5.4 WALL MOUNTING



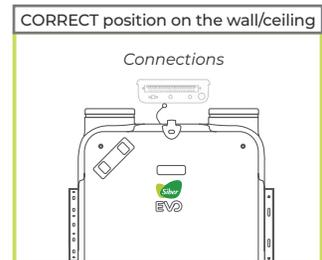
Important! For correct installation of the unit on the ceiling [see also sections 2.1, 5.2 and 7].

Caution

In the case of wall mounting, the unit must always be installed in vertical position in order to allow proper drainage of condensate via the drain pipe

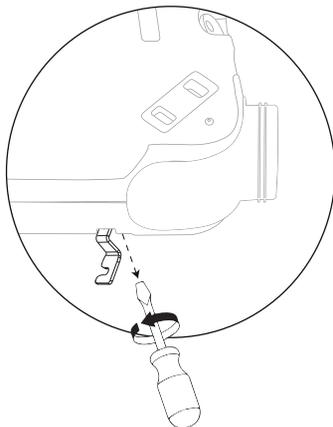
Caution

When installed in vertical position, place the printed circuit board connector on top. The printed circuit board must never be at the bottom.

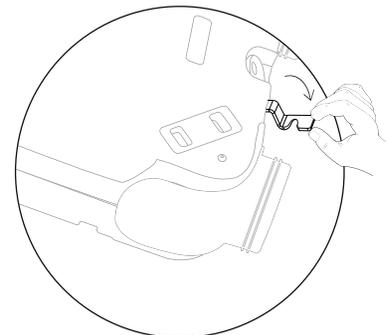
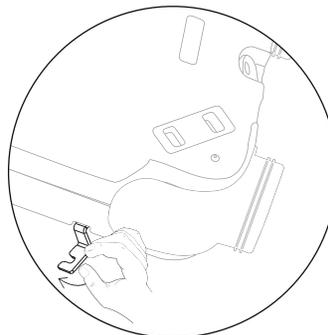


- 1 By default, the unit comes with the Silentblock Hooks fitted on the long side. To switch to the short side, follow the steps below:

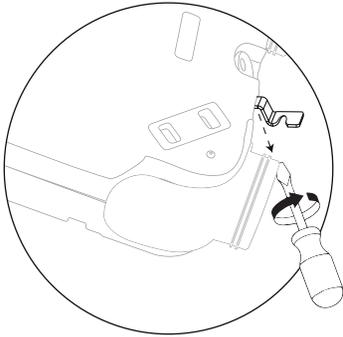
- 1.1 Unscrew the Silentblock Hooks



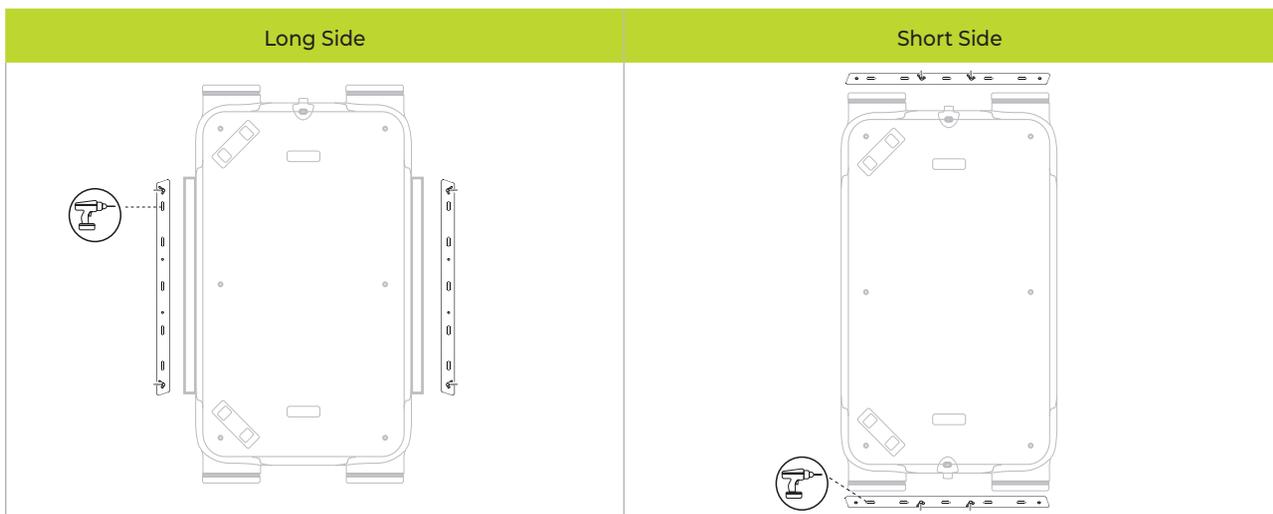
- 1.2 Replace the Silentblock Hooks to the short side, respecting the same direction.



1.3 Screw the Silentblock Hooks into the desired new position.

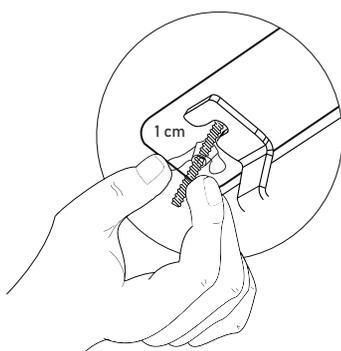


2 Drill the marked surface and screw the fixing brackets through the oval holes.

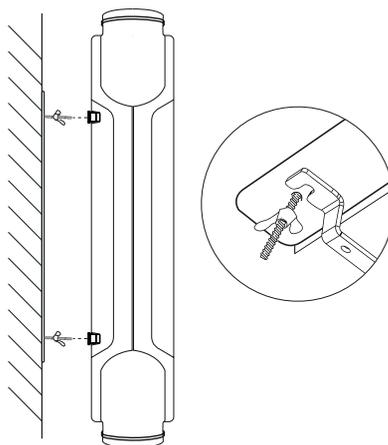


! If the template is not used, the fixing brackets must be spaced 630 mm apart on the long sides (standard version) and 1,035 mm apart on the short sides.

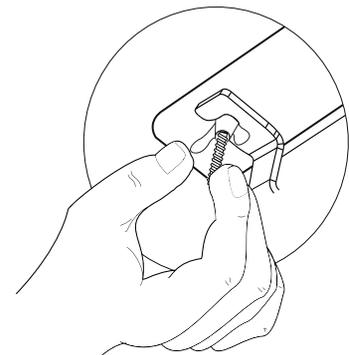
3 Loosen the wing-nuts and leave 1 cm of space



4 Place on top of the guide and slide until it locks into place with the wing-nuts.



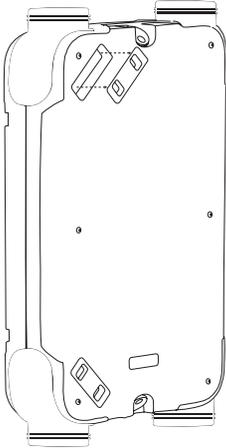
5 Tighten the wing-nuts



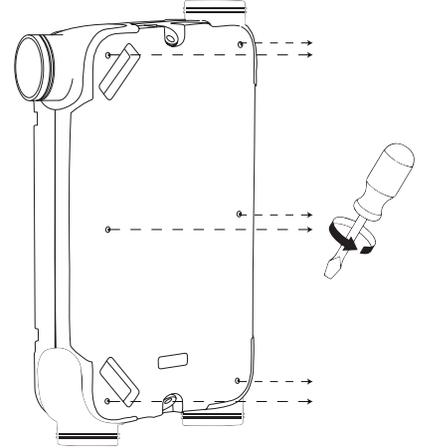
6 NOZZLE ORIENTATION

To change the default direction of the nozzles, follow the steps below:

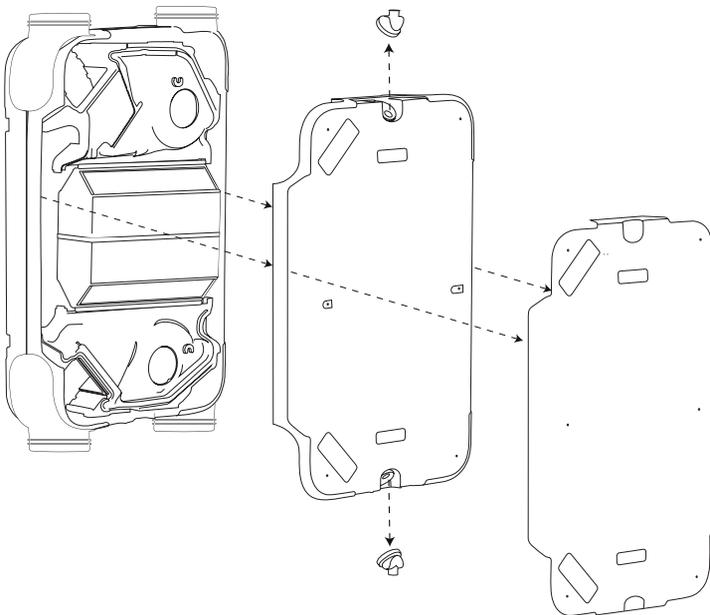
- 1 Remove the filter covers



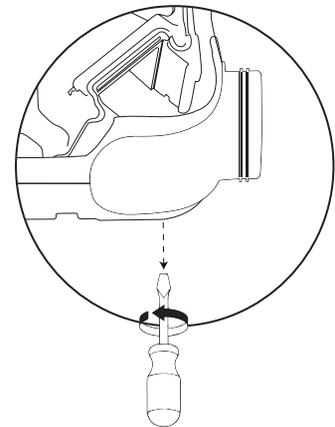
- 2 Unscrew the outer cover



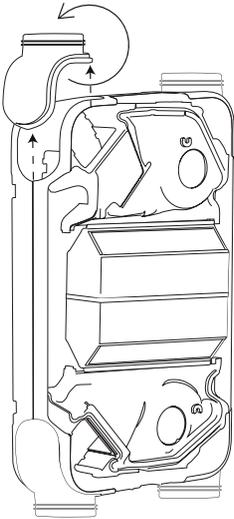
- 3 Remove the outer cover and the front polypropylene of the Unit, leaving the interior exposed



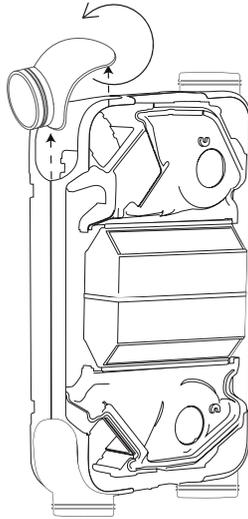
- 4 Unscrew the nozzle from the back side



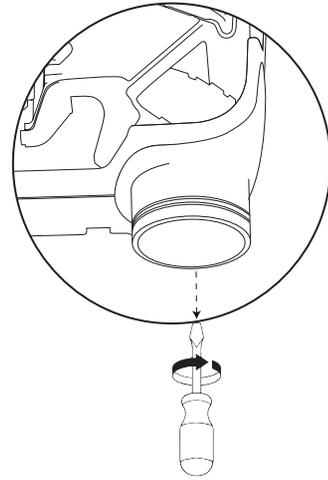
5 Raise the nozzle



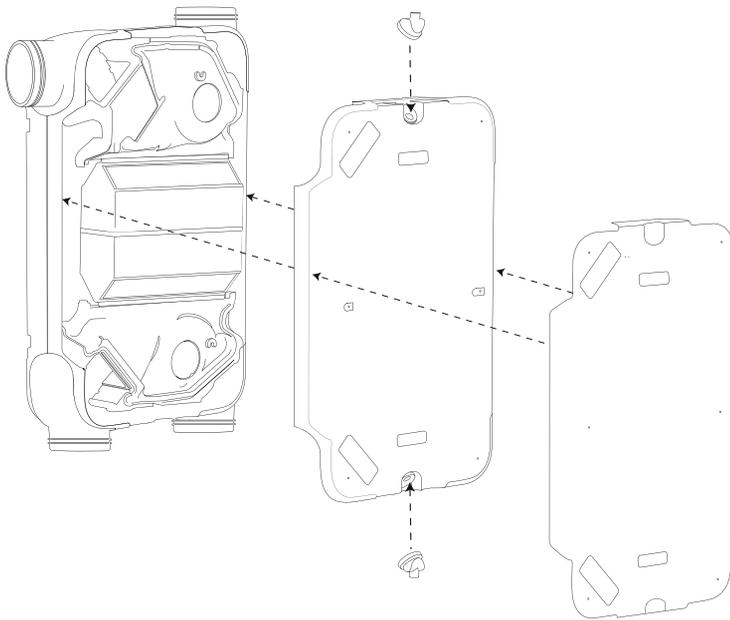
6 Turn the nozzle



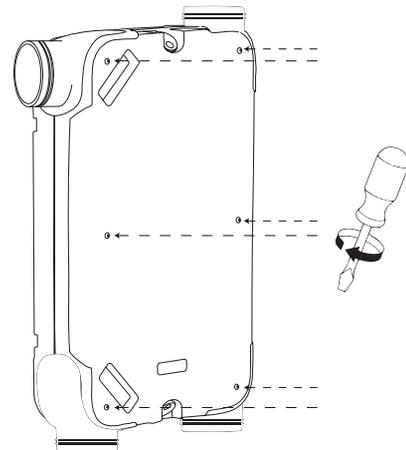
7 Screw the nozzle back on again from the back.



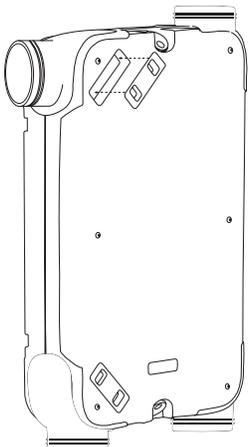
8 Fit the outer and inner covers of the Unit



9 Screw on the outer cover



10 Replace the filter covers



7 CONNECTION OF THE CONDENSATE DRAIN

The **SIBER HRV EVO 1/2M** must always be fitted with a condensate drain. Condensation water must be drained off.

The 1/2" male threaded condensate drain connection fitting (not included with the Unit) must be screwed by the installer into the condensate tank of the Unit.

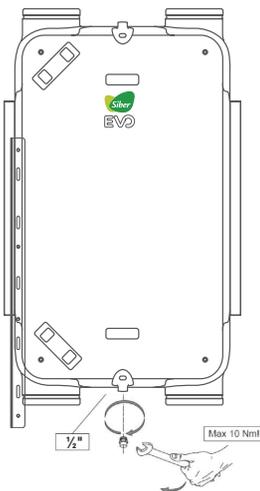
! Important! Always use a detachable condensate drain connection between the trap and the unit for proper maintenance.

The condensate drain pipe can be fitted underneath. The installer can adjust the condensate drain into the desired position. The drain must end at the trap water level.

Use a 32 mm diameter condensate drain pipe.

! In the case of a ceiling installation, make sure that the condensate drainage is below the level of the **SIBER HRV EVO 1/2M**

! Note: Only one condensate drain is connected, the other drain must remain closed with the plug. In the case of the Siber ERV EVO 1/2M, the two drains must be closed with two plugs, it is not necessary to connect to the condensate drain.



! Note:

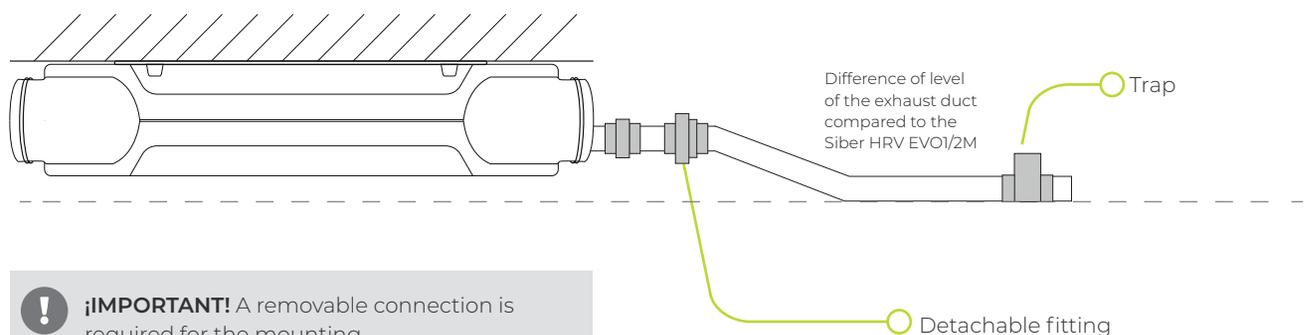
In the case of ceiling installation: Install the condensate trap in the drain on the side of the ducts leading to the outside. The other drain should be covered with the plug.

In the case of a wall installation: Install the condensate trap in the bottom drain of the device. The other drain should be covered with the plug.



! Attention! For the equipment warranty to remain valid, it is necessary to install a dry siphon (Dry Ball Siphon or Dry Flexible Siphon).

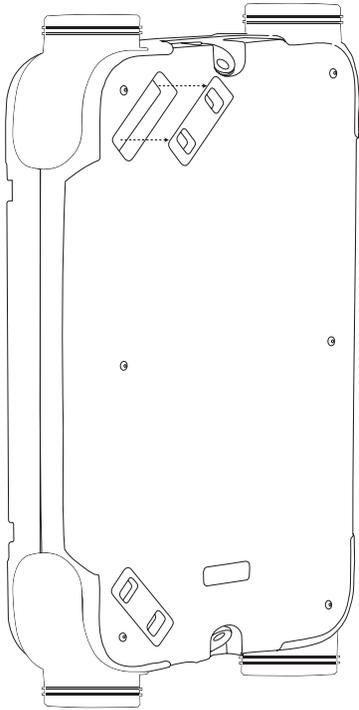
If the evacuation of condensates is executed in another way and there is any unforeseen event in the After-sales related to the evacuation of condensates, Siber is excluded from any responsibility, and it will be the responsibility of the installation company that has carried out the installation to solve any problem and the costs derived from this problem.



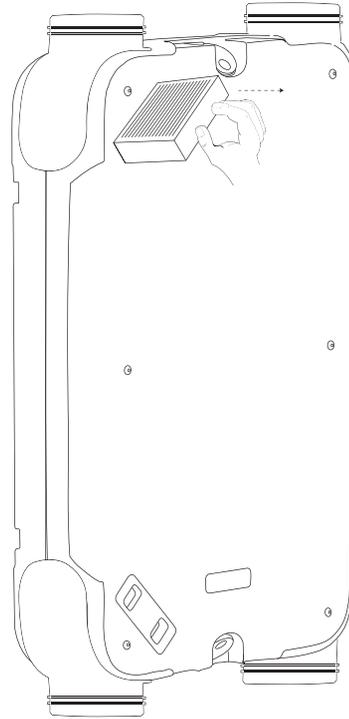
! ¡IMPORTANT! A removable connection is required for the mounting.

8 CHANGE OF FILTERS

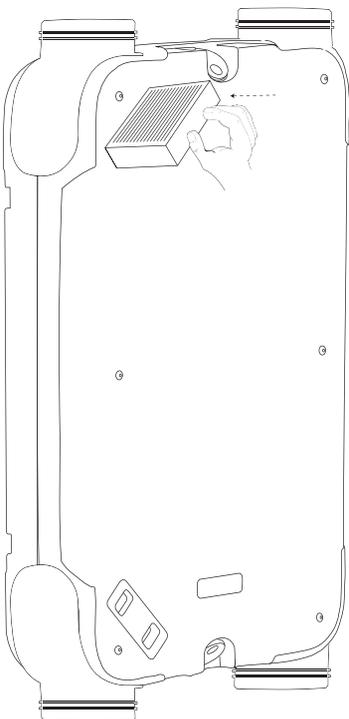
1 Remove the filter cover.



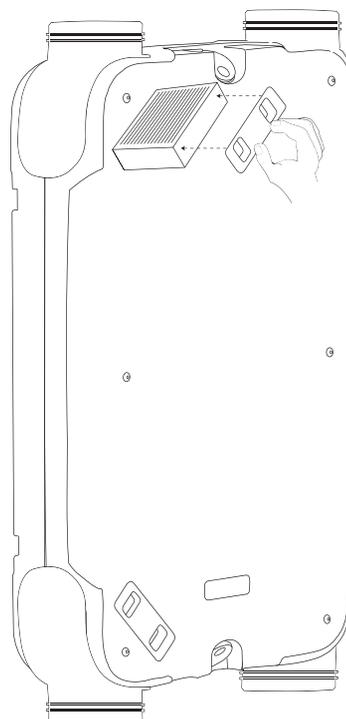
2 Pull the filter outwards.



3 Place the new filter in the slot and push it in.



4 Replace the filter covers



9 ELECTRICAL CONNECTION

9.1 MAINS CONNECTION

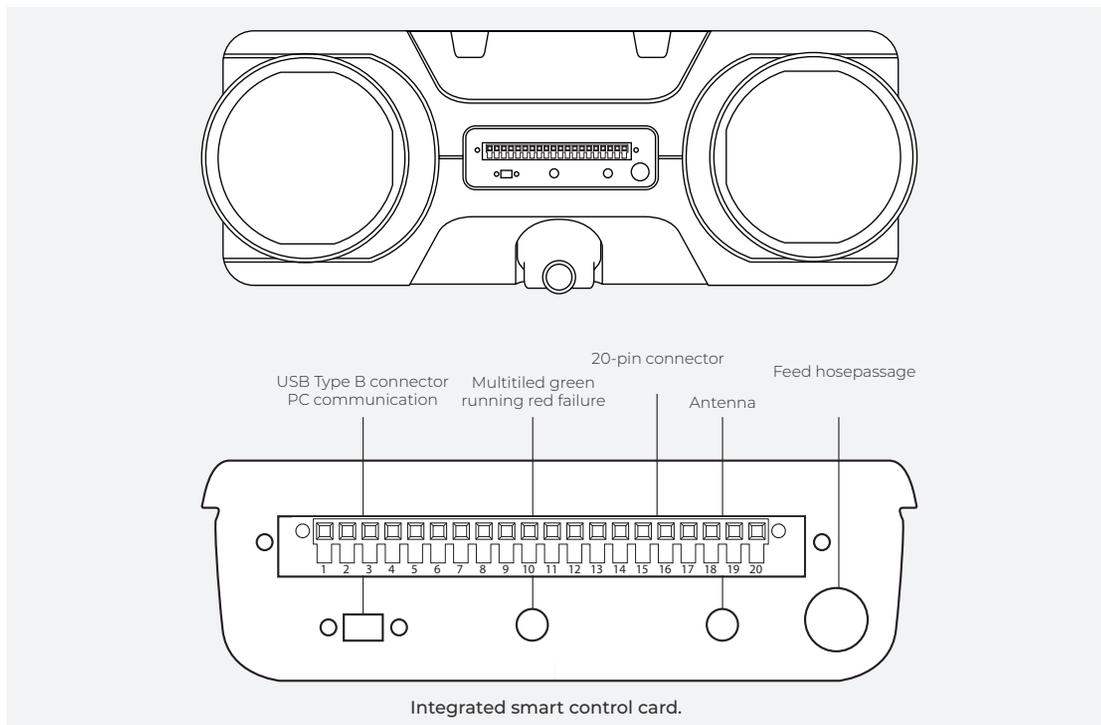
The electrical installation must correctly comply with the relevant standards.

Warning! The fans and the control circuit shall operate at 230 V. If handling or maintenance work is carried out, the unit must be disconnected from the mains.

Note: Under peak conditions, the power consumption of these units may reach the maximum indicated in the following table. This data is relevant for the calculation of electrical protections and wiring but is **NOT** the consumption under standard conditions. For the latter, please refer to the technical specifications of the EcoDesign Certification.

MAXIMUM CONSUMPTION BY MODEL	
HRV/ERV EVO 1 M	76W - 0,86A
HRV/ERV EVO 2 M	150W - 1,44A
HRV/ERV EVO 1 PR M	1.076W - 5,26A
HRV/ERV EVO 2 PR M	1.150W - 5,84A

HOSE IDENTIFICATION COLOURS	
BROWN	Line
BLUE	Neutral
GREEN / YELLOW	Earth

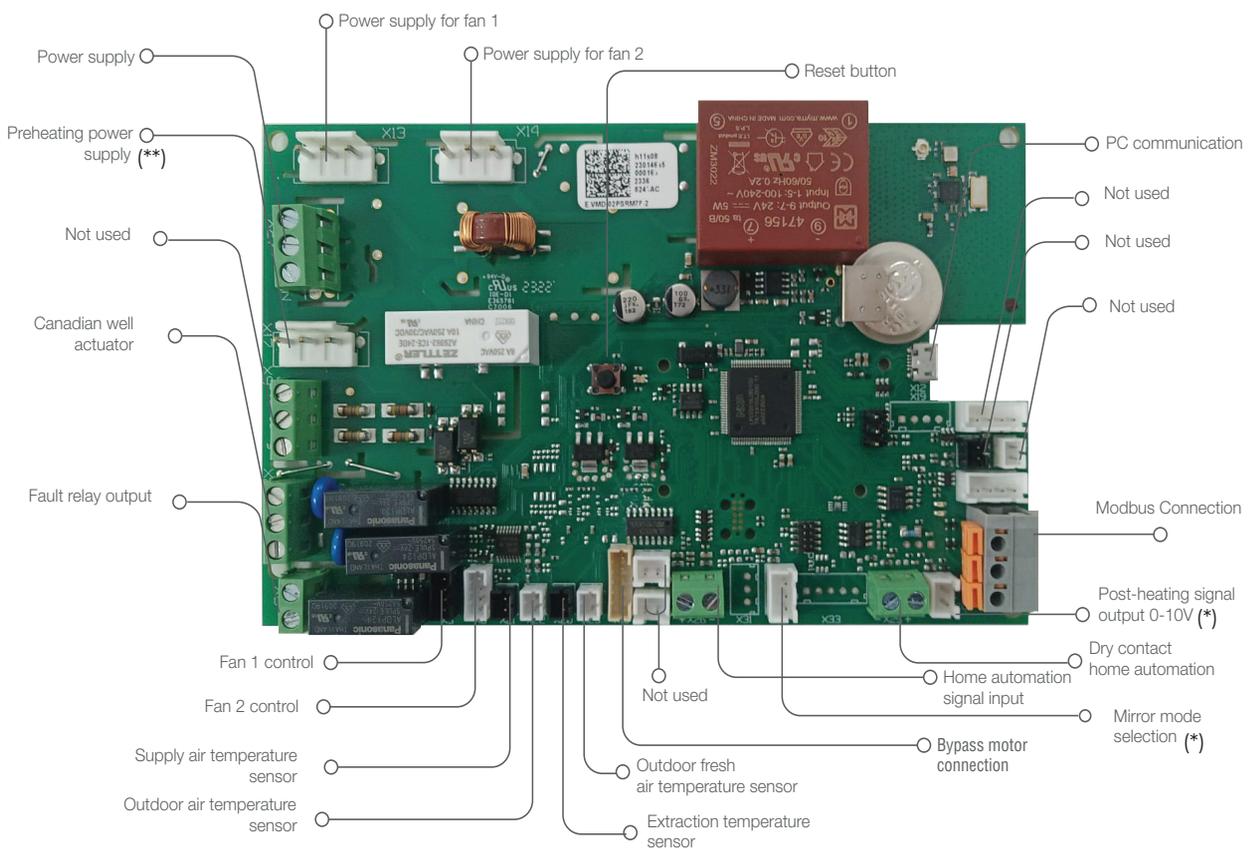
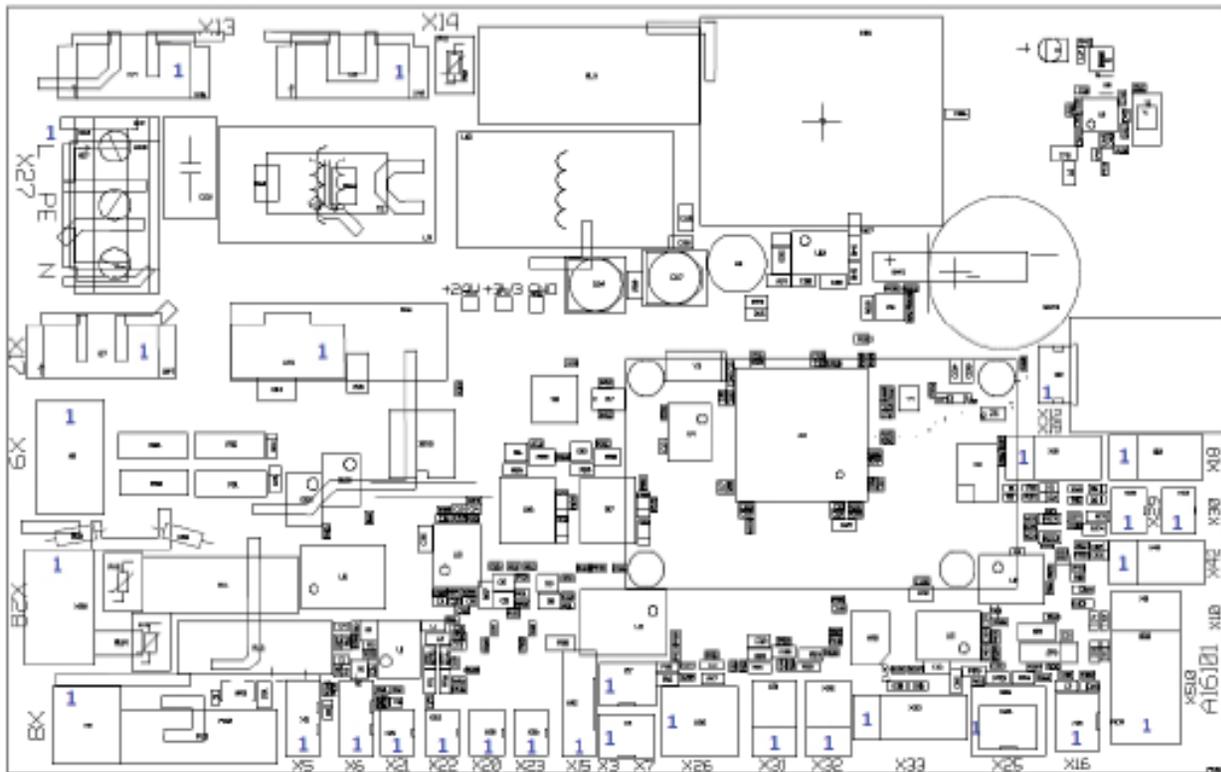


NUMBERING AND DESCRIPTION OF PIN CONNECTORS					
CONNECTOR	DESCRIPTION	PLATE	CONNECTOR	DESCRIPTION	PLATE
PIN 1	Home automation input 10 v	X-26	PIN 11	Not used	
PIN 2	Home automation input 0V	X-26	PIN 12 (***)	ModBus A+ Communication Connection	X-510
PIN 3	Home automation dry contact input	X-25	PIN 13 (***)	ModBus B- Communication Connection	X-510
PIN 4	Home automation dry contact input	X-25	PIN 14 (***)	GND connection shielded cable ground connection	X-510
PIN 5	Forecast probe external Canadian well	Forecast	PIN 15 (**)	Preheating output 230 V	X-17
PIN 6	Forecast probe external Canadian well	Forecast	PIN 16 (**)	Preheating output Ground	X-17
PIN 7 (*)	Post-heating signal output 10V	X-16	PIN 17 (**)	Preheating output Neutral	X-17
PIN 8 (*)	Post-heating signal output 0V	X-16	PIN 18	Output 230 V Close Canadian Well Actuator	X-28
PIN 9 (*)	Mirror mode NO/NC	X-32	PIN 19	Output 230 V Open Canadian Well Actuator	X-28
PIN 10 (*)	Mirror mode NO/NC	X-32	PIN 20	Neutral Output Canadian Well Actuator	X-28

(*) Pins **not used** on models with preheater included as standard: HRV EVO 1M & 2M PR and ERV EVO 1M & 2M PR.

(**) On models with a preheater included as standard, these pins are for the **post-heater** (optional) and not for preheating.

(***) Connection to ModBus: Recommended to use shielded hose cable, halogen-free 2x1mm section 1mm2



(*) Pins **not used**, on models with preheater included as standard: HRV EVO 1M & 2M PR and ERV EVO 1M & 2M PR
 (**) On models with a preheater included as standard, this power supply is for the **post-heater** (optional) and not for preheating.
 (***) Connection to ModBus: Recommended to use shielded hose cable, halogen-free 2x1mm section 1mm2

10 MONITOR YOUR HOME - PROBES / WIRELESS CONTROLS

Take care of your health and that of your loved ones by monitoring the Air Quality in your home!

The Siber HRV/ERV EVO 1/2M unit can be equipped with various (optional) wireless accessories:

- Wireless CO₂ probe
- Wireless Humidity sensor (RH)
- Wireless smart Multicontrol
- Wireless 4-position push-button control

Siber EVO M Probes/Control Command (optional)	
Wireless multicontrol	DFEVOCTRL
Wireless 4-position push-button control	DFPULS4B
Wireless CO ₂ probe	DFEVOCO2
Wireless Humidity sensor (RH)	DFEVOHR



The Siber Smart Wireless Multicontrol communicates via RF (radio frequency) with the ventilation unit and can choose from 5 different flow rate positions linked to the unit. It is a user and installation interface for monitoring and configuring the connected heat recovery unit. It has multiple functions connected to the Unit.



The Siber 4-Position Wireless Push Button Control communicates via RF (radio frequency) with the ventilation unit and can choose between 4 different positions linked to the unit. It has a dirty filter indicator.



The wireless Siber CO₂ probe monitors the CO₂ level of the air inside the house. It measures the CO₂ in the rooms of the house and sends its measurements via RF (radio frequency) to the Siber HRV/ERV EVO 1/2M Unit. The unit will be able to react and vary the appropriate ventilation flow rate to ensure the indoor air quality according to the information from the probe.



The wireless Siber HR (Relative Humidity) Probe controls the relative humidity of the indoor air in the house. It measures the indoor humidity in damp rooms and sends its measurements via RF (radio frequency) to the Siber HRV/ERV EVO 1/2M Unit. The unit will be able to react and vary the ventilation flow rate suitable for the indoor air quality according to the information from the probe.

11 SMART CONNECTIVITY

You can turn the dwelling into a smart home directly using the available ModBus gateways, as well as to connect the unit to your mobile device with the Siber EVO APP.

- Integrated MODBUS
- KNX - Evo Connect (optional)
- Ethernet bridge (specifies Siber EVO APP connection) (optional)

11.1 INTEGRATED MODBUS

- » The Siber HRV/ERV EVO 1/2M connects to the building management system (BMS) via cable (Pin 12, 13 and 14), in Modbus language for both reading and writing data. Collects information from Siber HRV/ERV EVO 1/2M unit and compatible wireless probes and controllers (DFPULS4B, DFEVCTRL, DFEVOCO2 and DFEVOHR) that are linked to this ventilation unit. [\[See section 11.4 for Modbus Registers\]](#)



11.2 KNX - EVO CONNECT

- » The EVO CONNECT device (DFEVOCONNECT) is a modbus / knx converter. It needs to be connected by cable (Pin 12, 13 and 14) to the Siber HRV/ERV EVO 1/2M to translate the information collected by the integrated Modbus and send it by cable to the BMS. Collects information from Siber HRV/ERV EVO 1/2M unit and compatible wireless probes and controllers (DFPULS4B, DFEVCTRL, DFEVOCO2 and DFEVOHR) that are linked to this ventilation unit.
- » The Evo Connect requires a 24 V power supply for its proper operation.



11.3 BRIDGE ETHERNET - SIBER EVO APP

Thanks to the smart control system, online monitoring of the most important elements is achieved, making it possible to control and monitor the indoor air quality of the home through the Siber EVO APP.

- Control and regulation of the unit's speeds.
 - Monitoring of CO₂ and relative humidity in the home.
- » The Siber HRV/ERV EVO 1/2M unit collects information from the various compatible wireless probes and controllers (DFPULS4B, DFEVCTRL, DFEVOC02 and DFEVOHR) via radio frequency.
 - » The information is sent to the Ethernet gateway (Ethernet Bridge - DFEVORFETH - DFEVORFETH) DFEVORFETH), whose device must be connected by cable to the home's internet connection modem, transferring the collected data to the "cloud" to provide access and monitoring of the data via the Siber EVO APP.



11.4-MODBUS REGISTERS

Node Information Values

All registers in the range 40000 to 40999 are supported, as described in the remote access document in the node information chapter.

The following table shows the device-specific values.

RECORD	DESCRIPTION	VALUES		PERMISSIONS	DATA TYPE
42000	Baud Rate	0	300	R/W	UINT 16
		1	600		
		2	1200		
		3	2400		
		4	4800		
		5	9600		
		6	19200		
		7	38400		
		8	57600		
		9	115200		
41999	Termination Bits	0	1 Bit	R/W	UINT 8
		1	2 Bit		
41998	Parity	0	None	R/W	UINT 8
		1	Odd		
		2	Even		
45116	Modbus Address	1-256	1 Default	R/W	UINT 8
41500	Ventilation mode	0	Off	R/W	UINT 8
		1	Low, Absence		
		2	Nominal Average		
		3	High Party		
		11	Low Speed Timer		
		12	Average Speed Timer		
		13	High speed timer		
		21	Minimum speed		
		23	Maximum speed		
		24	Auto		
41001	Fan Speed Impulsion		%	R	UINT 8
41002	Fan Speed Extraction		%	R	UINT 8

RECORD	DESCRIPTION	VALUES	PERMISSIONS	DATA TYPE	
41003	Mistake		R	UINT 8	
41014	Dirty filter	0 1	Clean Dirty	R	UINT 8
41504	Reset Filter	1	Reset Filter	W	UINT 8
42001	Reset CPU	1	PCB Reset	W	UINT 8
47035 47035	Drive Conf Minimum		%	R/W	FLOAT 32
47037 47038	Conf Expulsion Minimum		%	R/W	FLOAT 32
47039 47040	Drive Conf Absent		%	R/W	FLOAT 32
47041 47042	Conf Expulsion Absent		%	R/W	FLOAT 32
47043 47044	Conf Expulsion Stay		%	R/W	FLOAT 32
47045 47046	Drive Conf Stay		%	R/W	FLOAT 32
47047 47048	Party Drive Conf		%	R/W	FLOAT 32
47049 47050	Party Extraction Conf		%	R/W	FLOAT 32
47051 47052	Drive Conf Maximum		%	R/W	FLOAT 32
47053 47052	Extraction Settings Maximum		%	R/W	FLOAT 32
41006 41007	Expulsion Temperature		°C	R	FLOAT 32

RECORD	DESCRIPTION	VALUES	PERMISSIONS	DATA TYPE
41008 41009	Outdoor Temperature	°C	R	FLOAT 32
41010 41011	Return Temperature	°C	R	FLOAT 32
41012 41013	Contribution Temperature	°C	R	FLOAT 32
41025	CO ₂	ppm*	R	UINT 16
41017	Humidity	%*	R	UINT 8
41060	Bypass Position	0 Closed 100 Open	R	UINT 8
41057	Detected station	0 Not enabled 1 Not determined 2 Heat 3 Cold	R	UINT 8
45080	Station selection	0 Canceled 1 Always Hot 2 Always Cold 3 Last days 4 Last Day Only	R/W	UINT 8
47105 47106	Temperature for station selection	°C	R/W	FLOAT 32
45025	Manual Control bypass	0 Normal operation 1 Open 2 Close	R/W	UINT 8
47073 47074	Set Temperature Internal Bypass	°C	R/W	FLOAT 32
41026	Post Demand Heater/Cooler	0 OFF 100 ON EFh Not available	R	UINT 8
45082	Post Temperature Set Heater/Cooler	°C	R/W	UINT 8
45090	Post Mode Heater/Cooler	0 Canceled 1 Just Heat 2 Just cold 3 Heat and Cold	R	UINT 8

*CO2 and humidity values are only shown if there is a CO2 or RF Humidity probe..

12. MAINTENANCE

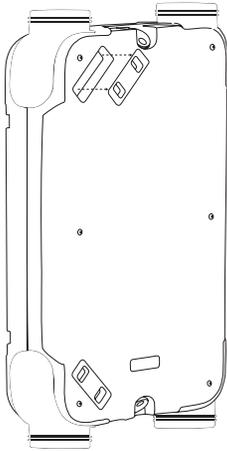
12.1 FILTER MAINTENANCE (FOR THE USER)

Filters should be checked every three months. Filters should be cleaned every six months and replaced at least once a year.

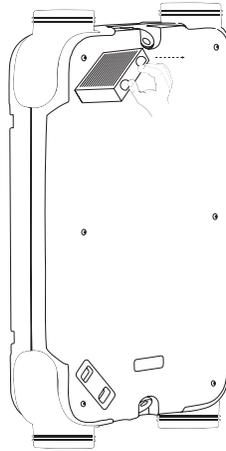
**Note:**

The equipment must never be operated without filters

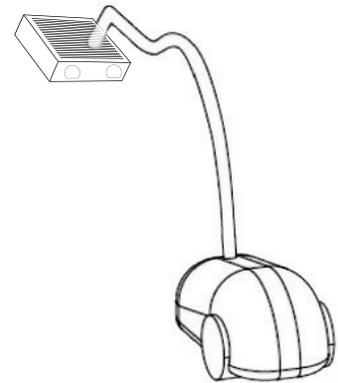
- 1 Remove the filter cover.



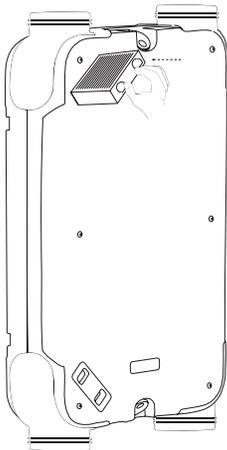
- 2 Pull the filter outwards.



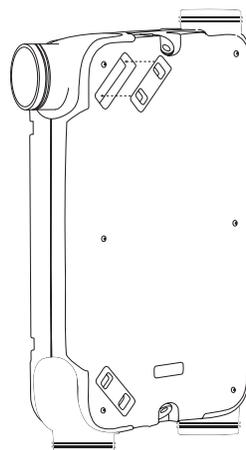
- 3 Vacuum the filter to remove the dirt



- 4 Place the new filter in the slot and push it in.

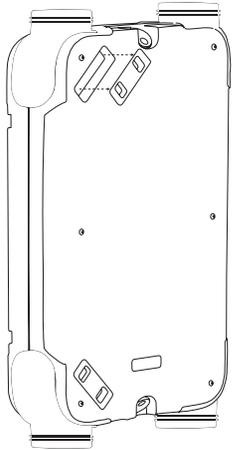


- 5 Replace the filter covers

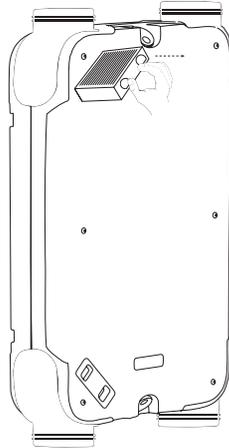


12.2 MAINTENANCE OF THE HEAT EXCHANGE (FOR THE INSTALLER)

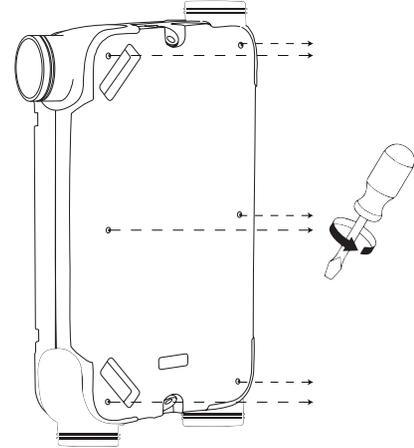
1 Remove the filter cover.



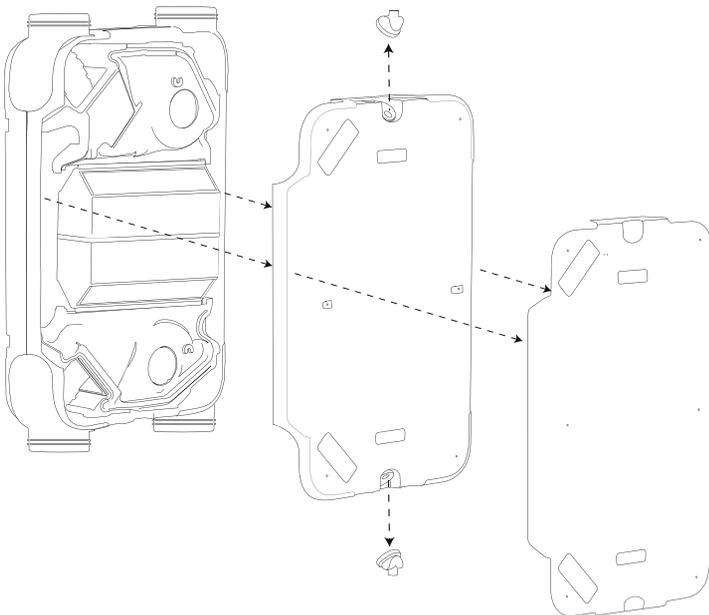
2 Pull the filter outwards.



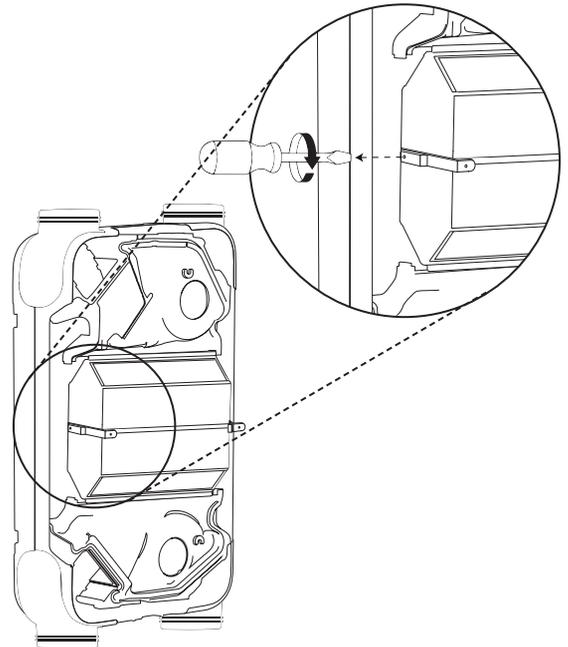
3 Unscrew the outer cover



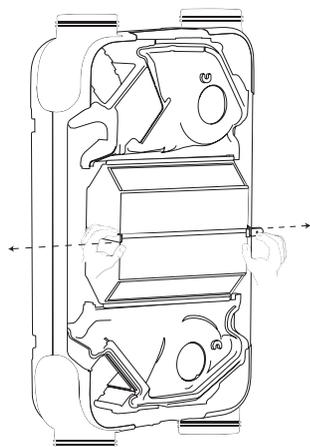
4 Remove the outer cover and the front polypropylene of the Unit, leaving the interior exposed



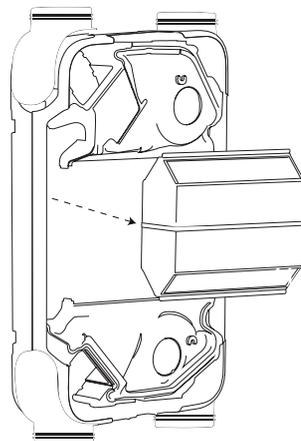
5 Unscrew and remove left support bracket



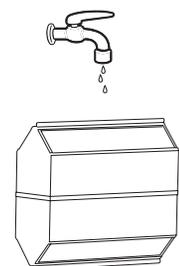
6 Separate the retaining tabs to remove the heat exchanger



7 Remove the heat exchanger



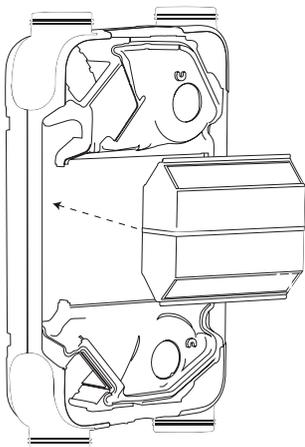
8 Clean the heat exchanger with water



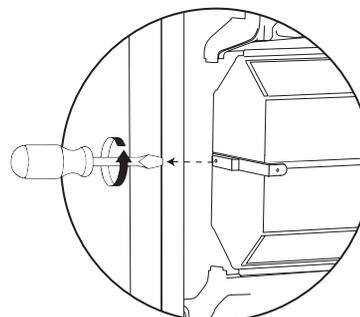
! Note:

Carefully remove the heat exchanger; a small amount of condensation water may still remain in the heat exchanger.

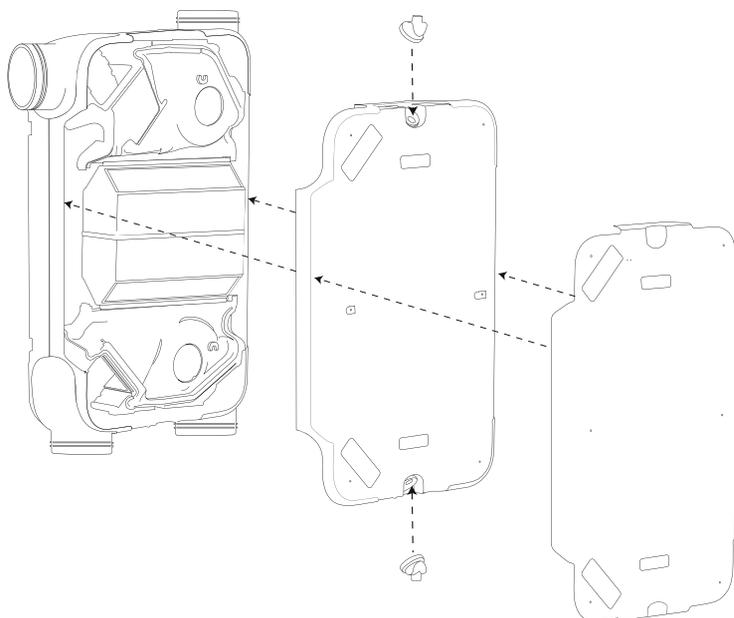
9 Put the heat exchanger back in place



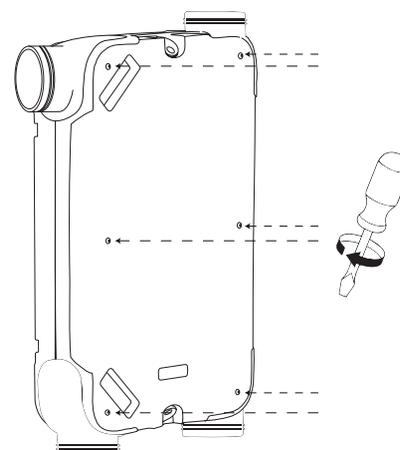
10 Insert the support bracket and screw it back on



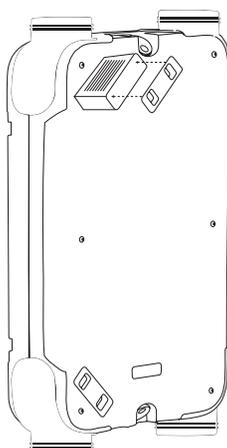
11 Fit the outer and inner cover of the Unit.



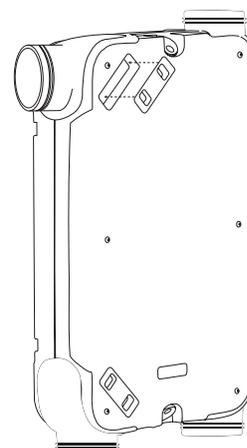
12 Screw on the outer cover



13 Replace the filters



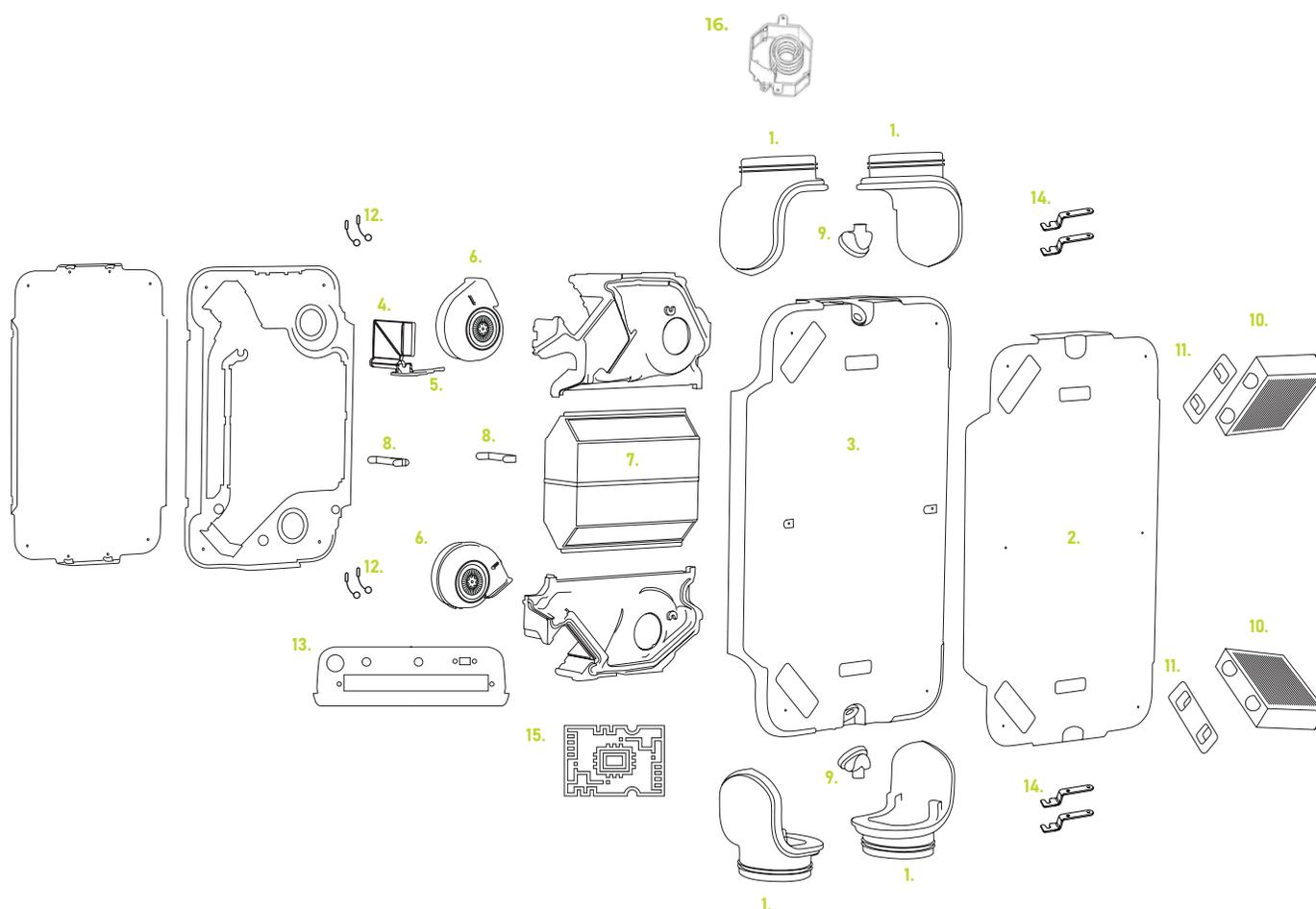
14 Replace the filter covers



12.3 EXPLODED VIEW AND DESCRIPTION

No	Article description SIBER EVO M	
1	Orientable nozzles 160 Ø	4 units
2	Front cover	1 unit
3	Front Polypropylene	1 unit
4	By-Pass Valve	1 unit
5	By-Pass valve motor	1 unit
6	Energy-saving fan	2 units
7	High-performance heat exchanger	1 unit
8	Fastening tabs	2 units
9	Swivelling condensate drain	2 units
10	High performance filter	2 units
11	Filter Cover	2 units
12	4 units	
13	Connection plate	1 unit
14	Silentblock	4 units
15	Electronic connection board with integrated ModBus	1 unit
16	Preheater (*)	1 unit

(*) Only included as standard on the following models: HRV EVO 1M & 2M PR and ERV EVO 1M & 2M PR



CERTIFICATE OF GUARANTEE



All Siber products are carefully tested and are covered by warranty for a period of 36 months from the date of purchase, in accordance with current legislation.

These rights, as provided for in the aforementioned legislation, may only be asserted with respect to the seller.

Within this period, Siberzone S.L.U. will be responsible for the repair and/or replacement, single-handedly and at its own expense, of components that, in its unquestionable judgement, are recognised to be malfunctioning.

The following cases are excluded from the warranty and void its validity:

- Installation of the appliance by non-professionally trained personnel (only valid for appliances that are not equipped with the manufacturer's plug).
- Failure to comply with the suggestions for use, installation and maintenance indicated in the corresponding instruction manual.
- Breakage due to misuse and negligence.
- Breakage caused by transport.
- Incorrect connection to the power supply.
- Power supply at a different voltage to that indicated on the appliance.
- Repairs or handling by unauthorised personnel.
- Interventions due to defects or falsified verifications.
- Warranty certificate missing and/or warranty certificate not completed.
- Removal or alteration of the label and seal proving the date of manufacture.

In any case, any products returned due to repair or replacement must be returned to the place of purchase, together with this certificate duly completed and the corresponding tax document proving the date of installation.

This warranty never extends to the obligation to repair damages of any kind or nature suffered by people and/or things.

Siber Zone, S.L.U. Apdo. de Correos nº9 - C/Can Macia nº2 08520 Las Franquesas del Vallés (Barcelona) Tel.: 902 02 72 14 Fax: 902 02 72 16 Email: siber@siberzone.es	Siber DF VMC system CERTIFICATE: Address of the _____ _____ Apartment/house: _____ Municipality: _____ Province: _____
--	---

In accordance with the GDPR, "Organic law on the protection of personal data", we inform you that signing this contract will be considered acceptance of the processing of the company's data as dictated by the indicated law. We also inform you that this data is necessary to fulfil the obligations referred to in this warranty.

Distributor/manufacturer stamp:

Installer stamp:

SIBERZONE, SLU

C/ Can Macià, nº 2
Telf. 902 02 72 14 Int. +34 93 8616261
Fax: 902 02 72 16 Int. +34 93 7814108
08520 LAS FRANQUESAS DEL VALLES
Barcelona - España

[Stamp]: SIBERZONE, SLU
C/ Can Macià, nº 2
Tel. 902 02 72 14 Int. +34 93 8616261
Fax: 902 02 72 16 Int. +34 93 7814108
08520 LAS FRANQUESAS DEL VALLES
Barcelona, Spain

[Signature]

Delivery date: _____

Stamped in: _____

Commissioning date: _____

Date: _____

Sustainable ventilation and air handling systems



Ventilación inteligente



Tel. 902 02 72 14
Int. 00 34 938 616 261
Fax. 902 02 72 16
Int. 00 34 937 814 108

siber@siberzone.es
www.siberzone.es

Siber Zone, S.L.U.

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Factory - Training Centre

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Offices - Logistics Centre
Showroom - Training Centre

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28850 Torrejón de Ardoz
Madrid-Spain

INNOVATION CENTRE
Offices - Logistics Centre
Showroom - Training Centre

C/ De Portugal, 18
08520 Les Franqueses del Vallès
Barcelona-España

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