

HEAT RECOVERY SINGLE-ROOM REVERSIBLE VENTILATION UNIT



VENTO Expert A50-1 Pro VENTO Expert DUO A30-1 Pro

OPERATION MANUAL



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The user's manual consisting of the technical details, operating instructions and technical specification applies to the installation and mounting of the single-room energy regeneration reversible ventilator VENTO Expert (DUO) (hereinafter referred to as «ventilator» or «unit» as mentioned in the «Safety Requirements» and «Manufacturer's Warranty» sections as well as in warnings and information blocks).

SAFETY REQUIREMENTS

Read the user's manual carefully prior to installing and operating the unit.

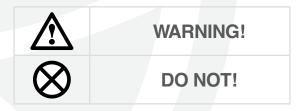
Fulfil the user's manual requirements as well as the provisions of all the applicable local and national construction, electrical and technical norms and standards.

The warnings contained in the user's manual must be considered most seriously since they contain vital personal safety information. Failure to follow the rules and safety precautions noted in this user's manual may result in an injury or unit damage.

After a careful reading of the manual, keep it for the entire service life of the unit.

While transferring the unit control the user's manual must be turned over to the receiving operator.

Symbol legend:



UNIT MOUNTING AND OPERATION SAFETY PRECAUTIONS



 Disconnect the unit from power mains prior to any installation operations.



· Unpack the unit with care.



Do not lay the power cable of the unit in close proximity to heating equipment.



 While installing the unit follow the safety regulations specific to the use of electric tools.





 Do not use damaged equipment or cables when connecting the unit to power mains.



- Do not operate the unit outside the temperature range stated in the user's manual.
- Do not operate the unit in aggressive or explosive environments.



- Do not touch the unit controls with wet hands.
- Do not carry out the installation and maintenance operations with wet hands.



- · Do not wash the unit with water.
- Protect the electric parts of the unit against ingress of water.

UNIT MOUNTING AND OPERATION SAFETY PRECAUTIONS



· Do not allow children to operate the unit.



 Disconnect the unit from power mains prior to any technical maintenance.



 Do not store any explosive or highly flammable substances in close proximity to the unit.



 When the unit generates unusual sounds, odour or emits smoke disconnect it from power supply and contact the Seller.



· Do not open the unit during operation.



• Do not direct the air flow produced by the unit towards open flame or ignition sources.



Do not block the air duct when the unit is switched on.



 In case of continuous operation of the unit periodically check the security of mounting.



 Do not sit on the unit and avoid placing foreign objects on it.



• Use the unit only for its intended purpose.



THE PRODUCT MUST BE COLLECTED SEPARATELY AT THE END OF SERVICE LIFE.

DO NOT DISPOSE OF AS UNSORTED MUNICIPAL WASTE.



PURPOSE

The ventilator is designed to ensure continuous mechanical air exchange in flats, cottages, hotels, cafes and other domestic and public premises.

The ventilator is equipped with a ceramic regenerator that enables supply of fresh filtered air heated by means of extract air heat energy regeneration.

The ventilator is designed for wall flush mounting.



THE UNIT MAY NOT BE OPERATED BY CHILDREN OR PERSONS WITH REDUCED PHYSICAL, MENTAL OR SENSORY CAPACITIES, OR LACKING THE APPROPRIATE TRAINING.

THE UNIT MUST BE INSTALLED AND CONNECTED ONLY BY PROPERLY QUALIFIED PERSONNEL AFTER THE APPROPRIATE BRIEFING.

THE CHOICE OF UNIT INSTALLATION LOCATION MUST PREVENT UNAUTHORIZED ACCESS BY UNATTENDED CHILDREN.

The unit is rated for continuous operation.

Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, sticky substances, fibrous materials, coarse dust, soot and oil particles or environments favourable for the formation of hazardous substances (toxic substances, dust, pathogenic germs).

DELIVERY SET

	Number		
Name	VENTO Expert A50-1 Pro	VENTO Expert DUO A30-1 Pro	
Indoor unit of the ventilator	1 item	1 item	
Air duct	1 item	1 item	
Air flow separator	-	3-6 items	
Sound-absorbing material	1 item	-	
Assembled cartridge	1 item	1 item	
Outer ventilation hood	1 item	1 item	
Remote control	1 item	1 item	
Cardboard template	1 item	1 item	
Fastening set	2 packs	2 packs	
User's manual	1 item	1 item	
Mounting hood installation instruction	1 item	1 item	
Packing box	1 item	1 item	



TECHNICAL DATA

The ventilator is designed for indoor application at ambient temperature from -30 °C (-22 °F) up to +50 °C (+122 °F) and relative humidity up to 97 %.

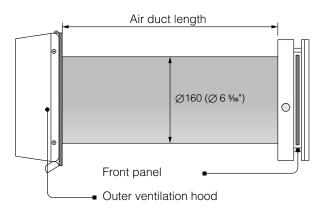
The ventilator is rated as a class II electric appliance.

Hazardous parts access and water ingress protection rating IP 24.

The unit design is constantly improved, so some models may slightly differ from the ones depicted herein.

TECHNICAL DATA

Speed		VENTO Expert A50-1 Pro			VENTO Expert DUO A30-1 Pro		
Speed	ı	II	III	I	II	III	
Unit voltage [V/50-60 Hz]		1~100-240			1~100-240		
Power [W]	3.61	4.15	5.2	2,17	3,66	6,62	
Current [A]	0,025	0,030	0,039	0,026	0,039	0,066	
Air capacity [m³/h] (CFM)	15 (9)	30 (19)	50 (29)	10(6)	20(12)	30(18)	
Filters	F8	G3 (MERV 7); F8 (MERV 13) option			G3 (MERV 7)		
Transported air temperature [°C(°F)]		from -30 (-22) up to 50 (122)					
Noise level, 1 m [dB(A) (Sones)]	20 (0,6)	27 (1,0)	30 (1,2)	33(1,2)	40(2,0)	43(2,5)	
Noise level, 3 m [dB(A) (Sones)]	11 (0,3)	18 (0,5)	21 (0,6)	24(0,5)	31(1,0)	34(1,2)	
Noise level attenuation [dB(A) (Sones)]		42 (2,5)			42(2,5)		
Heat recovery efficiency [%]	97	90	82	85	80	75	
Ingress protection		IP 24		IP 24			



The air duct length depends on the unit model.

Air duct length				
VENTO Expert A50-1 Pro	250(150*)-500 (9 ¹³ / ₁₆ "(5 ⁷ / ₈ ")-19 ¹¹ / ₁₆ ")			
VENTO Expert A50-1 L Pro	250 (150*)-700 (9 ¹³ / ₁₆ "(5 ⁷ / ₈ ")-27 ⁹ / ₁₆ ")			
VENTO Expert DUO A30-1 Pro	280-500 (11"-19 11/16")			
VENTO Expert DUO A30-1 L Pro	280-700 (11"-27 ⁹ / ₁₆ ")			

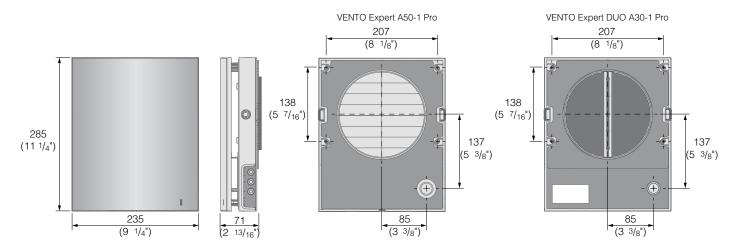
^{*} minimum air duct length for Vento Expert A50-1 (L) S Pro

The supplied ventilation hood model depends on the ventilator model.

The overall dimensions of the outer ventilation hood are stated in the installation instruction.

The overall dimensions of the front panel are stated below.

OVERALL DIMENSIONS OF THE INDOOR UNIT, MM (INCH)





UNIT DESIGN AND OPERATING LOGIC

VENTO Expert A50-1 Pro

The ventilator consists of an indoor unit with a decorative front panel, a cartridge, an air duct with a sound absorbing layer and an outer ventilation hood.

The cartridge is a basic functional part of the ventilator.

The cartridge consists of a fan, a regenerator and two filters that ensure rough air filtration and prevent ingress of dust and foreign objects into the regenerator and the fan.

The indoor unit is equipped with automatic shutters that close during the ventilator standstill and prevent air backdraft.

VENTO Expert DUO A30-1 Pro

The ventilator consists of an indoor unit with a decorative front panel and filters, a cartridge, an air duct with air flow separators and an outer ventilation hood.

The filters ensure rough air filtration and prevent ingress of dust and foreign objects into the cartridge.

The cartridge is a basic functioning part of the ventilator.

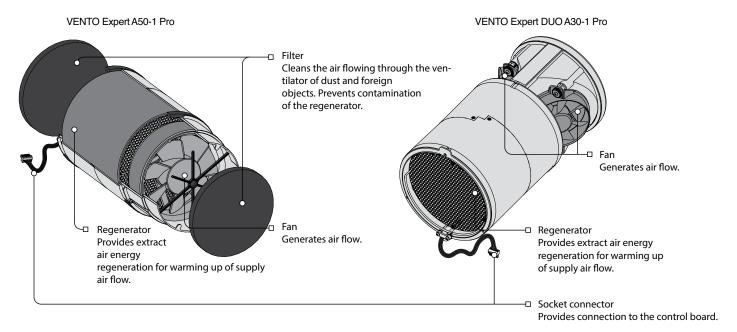
It consists of a fan and a regenerator.

The outer ventilation hood is used to prevent direct ingress of water and other objects to the ventilator.

VENTILATOR DESIGN Outer ventilation hood Prevents ingress of water and foreign objects into the ventilator Each ventilator model has a matching Sound-absorbing material A layer of sound-absorbing material for attenuation of noise generated during the ventilator operation. Cartridge □ Construction consisting of a fan, a regenerator and filters. Generates air flow, provides energy regeneration and air cleaning Air flow separators Designed for separation of supply and exhaust air streams Back part of the indoor unit □ The assembly unit includes a circuit board and basic control units located on the side Plastic air duct of the indoor unit -□ Cartridge Construction consisting of fans and a regenerator. Generates air flow, provides air Back part of the indoor unit The assembly unit includes a circuit board and basic control units located on the side of the indoor unit. Clean the air flowing through the ventilator of dust and foreign objects. Prevent contamination of **VENTO Expert A50-1 Pro** the regenerator. Front part of the indoor unit Fulfils the decorative function. The design enable VENTO Expert DUO A30-1 Pro to shut off the air duct in case of extended downtime of the ventilator. The front part of the VENTO Expert A50-1 Pro unit is used for air filtration



CARTRIDGE DESIGN



The cartridge is a solid block and cannot be dismantled.

The VENTO Expert A50-1 Pro unit has a cartridge with filters that can be easily removed for maintenance purposes. The socket connector routed from the cartridge is connected to the control board in the back part of the indoor unit.

VENTO EXPERT A50-1 PRO OPERATION MODES

The ventilator has two operation modes:

Ventilation. The ventilator operates either in extract or supply mode at a set speed.

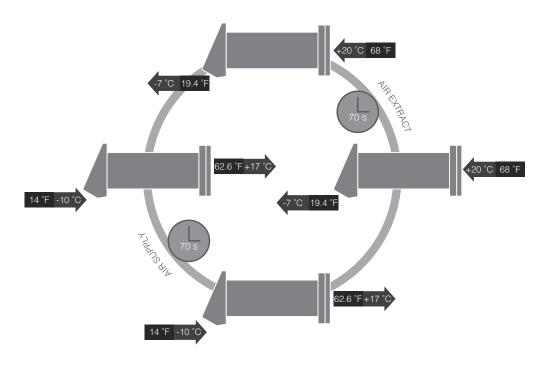
Regeneration. The ventilator operates in reversible mode with heat and humidity recovery.

Air supply. All the connected ventilation units in the network switch to air supply mode.

In Regeneration mode the ventilator operates in two cycles, 70 seconds each.

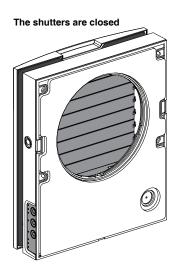
Cycle I. As warm stale extract air flows through the ceramic regenerator, it heats up and moisturizes the regenerator and transfers up to 97 % of heat energy. In 70 seconds after the regenerator gets warmed the ventilator is switched to supply mode.

Cycle II. Fresh intake air from outside flows through the ceramic regenerator, absorbs accumulated moisture and is heated up to the room temperature. In 70 seconds after the regenerator gets cooled down, the ventilator is switched to air extract mode and the cycle is renewed.





FUNCTIONING OF VENTO EXPERT A50-1 PRO SHUTTERS





The indoor unit is equipped with automatic shutters.

During the ventilator operation the automatic shutters are opened and let the air flow freely through the ventilator.

The automatic shutters are closed within 2 minutes at the ventilator shut down.

VENTO EXPERT DUO A30-1 PRO OPERATION MODES

The ventilator has three operation modes:

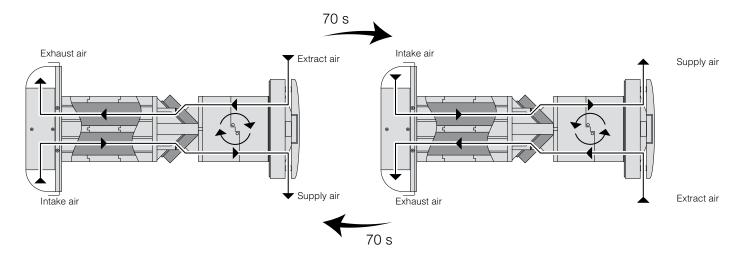
Ventilation. One fan operates in the air extract mode and the other fan operates in the air supply mode at set speed. The fans do not change their rotation direction.

Air extract. Both fans operate in air extract mode at set speed.

In case of a sensor activation the ventilation unit follows one of two functioning algorithms to be set during setup of the ventilation unit via the DIP switch. For details, see page 14.

Regeneration. One of the fans of the ventilator operates in extract mode and the other one in supply mode.

The fans change their rotation direction every 70 seconds.





MOUNTING AND SET-UP

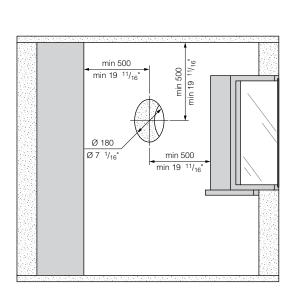


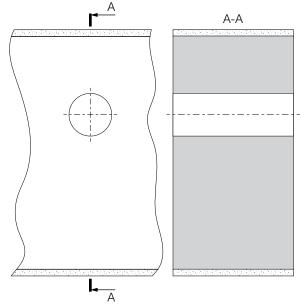
READ THE USER'S MANUAL PRIOR TO MOUNTING THE UNIT.



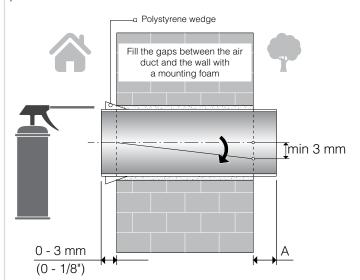
DO NOT BLOCK THE AIR DUCT OF THE INSTALLED UNIT WITH DUST ACCUMULATING MATERIALS, SUCH AS CURTAINS, CLOTH SHUTTERS, ETC. AS IT PREVENTS AIR CIRCULATION IN THE ROOM.

1. Prepare a round core hole in the outer wall. The hole size is shown in the figure below. While preparing a core hole it is recommended to make preparations for layout of the power cable and other required cables.





2. Insert the air duct in the wall. For ease of installation use the polystyrene wedges included in the delivery. The air duct end must protrude for the distance that enables installation of the outer ventilation hood (see the User's manual for the outer ventilation hood).



Insert the air duct into the wall as shown in the picture on the left.

Install the air duct with the minimum slope of $3\ \text{mm}$ down from the outer wall side.

On the outer wall side the air duct end must protrude to a distance that enables installation of the outer ventilation hood.

Distance ${\bf A}$ is stated in the installation instruction for the ventilation hood.

Adjustment of the air duct length is possible before and after its fixation in the wall.

In the first case calculate the required length before mounting and in the second case be sure to have enough access to cut the air duct length after its installation.

3. Stick the delivered cardboard master plate on the indoor wall using a mounting tape.

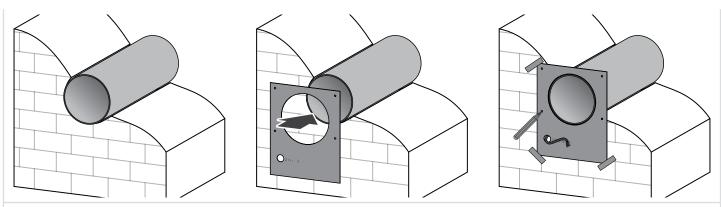
The large opening in the master plate must be axially aligned with the air duct.

For aligning of the master plate with respect to the horizon line it is recommended to use a builder's level.

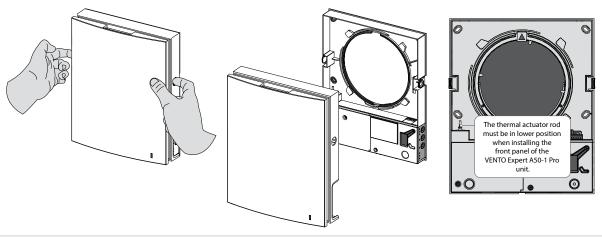
Then mark the fastening holes for installation of the supplied dowels and drill the holes to a required depth.

Route the power cable from the ventilator outside through the specially marked opening on the master plate.

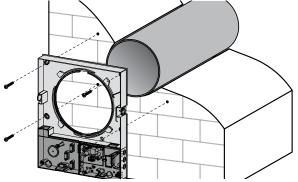




4. Press the side latches to detach the front part of the indoor unit from its back part.

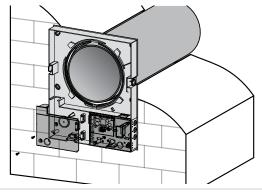


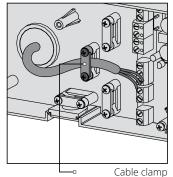
5. Fix the back part of the indoor unit on the wall with the screws supplied with the mounting kit of the ventilator. Remove the two retaining screws from the left transparent cover to enable access to the terminals.

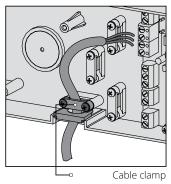


6. Route the power cable as figured below and connect the ventilator to power mains in compliance with the external wiring diagram, see page 12.

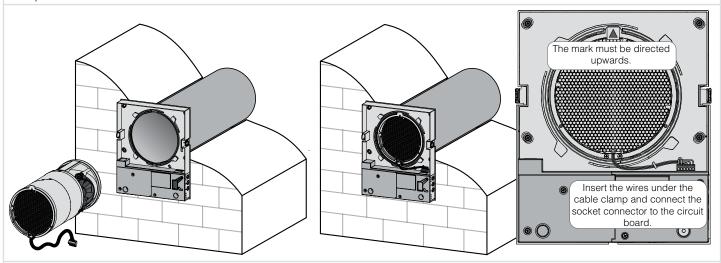
Fix the power cable and the signal cables with a cable clamp. After completion of the electrical connection re-install the transparent cover in site.



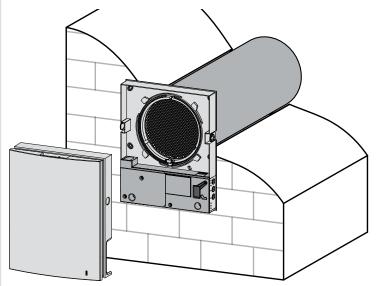


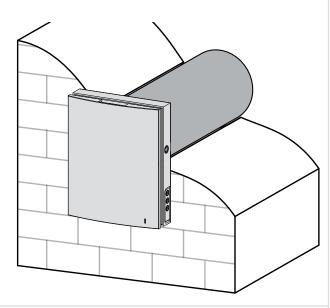


7. Insert the cartridge into the air duct as figured below. Be sure the pointer is directed upwards. Then fix the wire with the protruding clamp and connect the socket connector to the circuit board.



8. Install the front part of the indoor unit.





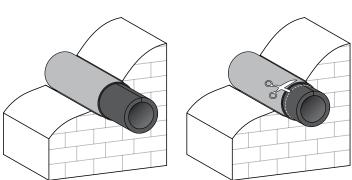
VENTO Expert A50-1 Pro

9. Insert the sound absorbing layer into the air duct from the outside.

Roll the layer of the sound absorbing material to match the air duct diameter. The protecting paper layer must be outside. Insert the sound absorbing roll into the cartridge against stop.

Make a mark at the end of the air duct, remove the material and cut the roll as marked.

Insert the ready sound absorbing roll into the air duct.



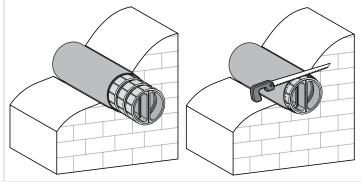
VENTO Expert DUO A30-1 Pro

9. Install the sectional air flow separators from the outside. Install a required quantity of the air flow separators in the air duct until it bumps up the cartridge.

Mark the last air flow separator to be flush with the air duct face, remove it from the air duct and cut the excessive part of the last air flow separator.

Tighter fixation is provided if the air flow separator protrudes to some distance.

Install the adjusted air flow separators to the air duct.



10. Install the outer ventilation hood. The mounting sequence of the outer ventilation hood is described in the installation instruction for the ventilation hood.



CONNECTION TO POWER MAINS AND CONTROL

DISCONNECT THE UNIT FROM POWER SUPPLY PRIOR TO ANY OPERATIONS WITH THE UNIT.



INSTALLATION SHALL ONLY BE PERFORMED BY A PROFESSIONAL ELECTRICIAN QUALIFIED FOR UNASSISTED OPERATIONS WITH ELECTRICAL INSTALLATIONS UP TO 1000 V AFTER CAREFUL STUDY OF THE PRESENT USER'S MANUAL.

THE RATED ELECTRICAL PARAMETERS OF THE UNIT ARE GIVEN ON THE MANUFACTURER'S LABEL. ANY INTERNAL CONNECTION MODIFICATIONS ARE NOT ALLOWED AND RESULT IN WARRANTY LOSS.

The ventilator is rated for connection to single-phase AC 100-240 V/ 50-60 Hz power mains. The routing of the power and signal cables is shown in the «Mounting and set-up» section, page 9.

For electric installations use insulated, durable and heat-resistant electric leads (cables, conductors) with the minimum cross section 0.5 up to 0.75 mm² for the power cable and 0.25 mm² for the control cables. The cable cross-section is given for reference only. The signal cable must be shielded. The actual conductor cross-section selection must be based on its type, maximum permissible heating, insulation, length and installation method.

Use copper wires for all the electric connections!

Connect the unit to power mains via the terminal block installed in the control board in compliance with the wiring diagram and terminal designation.

Connect the unit to power mains through the external automatic circuit breaker with a magnetic trip integrated into the fixed wiring system. The circuit breaker trip current must exceed the consumption current of the ventilator. For details, please refer to the table on page 5.

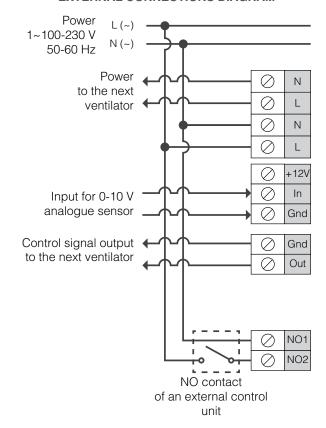
The ventilator design enables connecting any external controls with a normally opened contact (NO-contact), such as an external ${\rm CO_2}$ sensor, humidity sensor, relay switch, etc.

When the contacts NO1 and NO2 close the ventilator switches to high speed.

The ventilators can be connected in series and in parallel with a central control by the master ventilator.

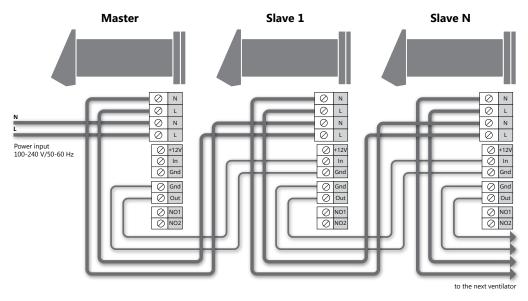
In case of in series or in parallel connection of several ventilators power is supplied either from a previous ventilator or from power mains.

EXTERNAL CONNECTIONS DIAGRAM

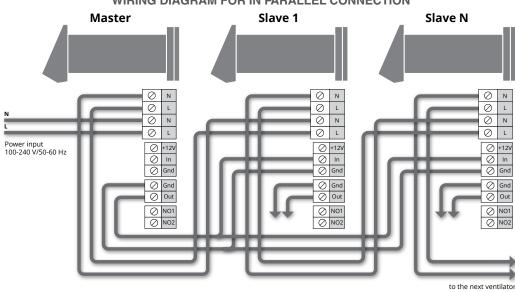




WIRING DIAGRAM FOR IN SERIES CONNECTION

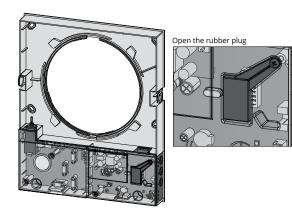


WIRING DIAGRAM FOR IN PARALLEL CONNECTION



VENTILATOR SET-UP

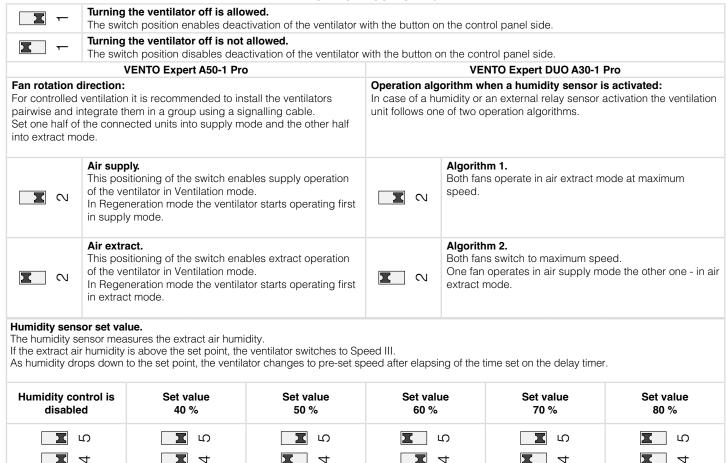
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Prior to operating set up the ventilator using the DIP-switch. It is located on the controller circuit board. To access the DIP-switch take off the front panel of the indoor unit and uplift the rubber plug that covers the switch.



DIP-SWITCH POSITIONING



Delay timer.

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During activation of the humidity sensor or any other control unit the ventilator switches to higher speed.

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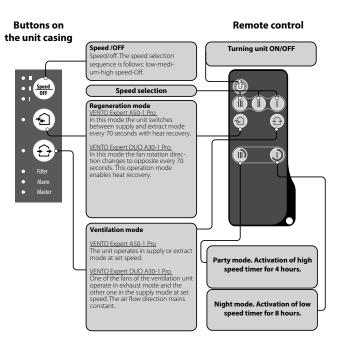
After normalization of the indoor humidity level or any other air parameters the ventilator returns to a previously set mode in set time period.

Time delay 0 min	Time delay 5 min	Time delay 15 min	Time delay 30 min
	T ~	I	I
2 0	T 0	T 0	T 0

UNIT CONTROL

The ventilator can be operated with the remote control or the control buttons on the side part of the indoor unit, as figured below.

In case of in series or in parallel connection the signal from a control unit is received by the first ventilator (Master) only.





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OPERATION OF THE VENTILATION UNIT WITH THE BUTTONS ON THE INDOOR UNIT

The speed setting engages cyclically: I-II-III-Off. All the units integrated in a single network operate according to the speed settings of the Master unit. 1: permanent indicator glowing indicates operation of the unit at first speed. The indicator blinks when the first speed timer is activated. I and II: permanent glowing of the indicators I and II indicates operation of the unit at second speed. I, II and III: permanent glowing of the indicators I, II and III indicates operation of the ventilation unit at third speed. Blinking of the indicators I, II and III indicates activation of the timer for Party mode or the turn-off delay timer triggered by any connected external sensors or the integrated humidity sensor. Regeneration mode VENTO Expert A50-1 Pro The fan rotation direction changes to opposite every 70 seconds. Heat recovery is performed in this mode. VENTO Expert DUO A30-1 Pro The rotation direction of both fans changes to opposite every 70 seconds. Heat recovery is performed in this mode. Ventilation mode. VENTO Expert A50-1 Pro The ventilator operates in permanent supply or extract mode at set speed. The air flow direction depends on positioning of the DIP-switch (set to air extract by default). VENTO Expert DUO A30-1 Pro One fan operates in the air extract mode and the other fan operates in the air supply mode at set speed. The fans do not change their rotation direction. Contamination indicator of filters. 90 days (continuous operation) after installation of the cartridge the Filter contamination indicator starts glowing. In this case clean or replace the filters (see the «Technical maintenance» section). Filter During in-series connection the first ventilator indicator has a steady glow and the indicator of the ventilator requiring filter replacement blinks. The filter timer is reset once the cartridge socket is disconnected from the circuit board. Alarm indicator for emergency shutdown of the unit. Permanent glowing of the Alarm indicator of the Master unit indicates an alarm in the network of the connected ventilation units. Its blinking indicates shutdown of a specific ventilation unit in the network. In case of an emergency shutdown of the VENTO Expert A50-1 Pro unit the defective ventilation unit is marked with the blinking Alarm indicator. Alarm All the connected VENTO Expert A50-1 Pro ventilation units are also stopped. All the connected VENTO Expert DUO A30-1 Pro ventilation units continue operating. In case of an emergency shutdown of the VENTO Expert DUO A30-1 Pro unit the defective ventilation unit is marked with the blinking Alarm indicator. The defective ventilation unit shuts down and the other connected ventilation units continue their operation. Permanent glowing of the indicator shows the leading unit in the network (Master unit).

REMOTE CONTROL OF THE VENTILATION UNIT

No glowing of the lamp indicator means that this ventilation unit is a Slave ventilation unit and it is connected to a Master unit.

Indicator blinking indicates the driven unit (Slave) and no connection to the Master unit.



Master

Turning the unit on/off.

The unit may be turned off only if it is enabled by the settings.

Reset of alarm and timer settings.



Ventilator speed selection: Speed III-II-I respectively.



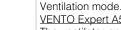
Regeneration mode.

VENTO Expert A50-1 Pro

The fan rotation direction changes to opposite every 70 seconds. Heat recovery is performed in this mode.

VENTO Expert DUO A30-1 Pro

The rotation direction of both fans changes to opposite every 70 seconds. Heat recovery is performed in this mode.

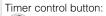


VENTO Expert A50-1 Pro

The ventilator operates in permanent supply or extract mode at set speed. The air flow direction depends on positioning of the DIP-switch (set to air extract by default).

VENTO Expert DUO A30-1 Pro

One fan operates in the air extract mode and the other fan operates in the air supply mode at set speed. The fans do not change their rotation direction.





- Activation of Speed III for 4 hours

Activation of Speed I for 8 hours

Upon expiration of the set time period the ventilator reverts to a pre-set speed.

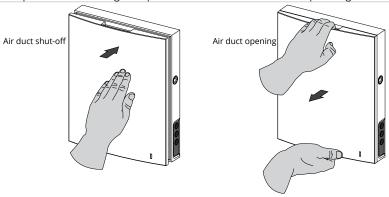
Press any button of the manual speed setting to deactivate the timer.



AIR FLOW BLOCKING FOR VENTO EXPERT A50-1 PRO

Press the front panel to close the air duct. The fan turns off automatically. The unit functionality is not changed.

To open the air duct pull the front panel while holding the special recesses. The fan starts operating according to the actual speed setting.



The front panel incorporates an operating LED indicator. During the dark time the indicator light intensity drops down.

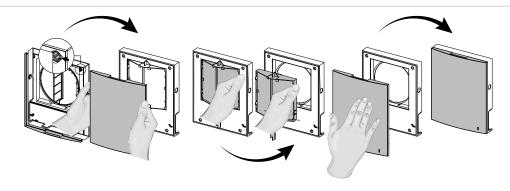
AIR FLOW BLOCKING FOR THE VENTO EXPERT DUO A30-1 PRO

Press the side tabs to detach the front part of the indoor unit from its back part and close the air duct. Then open the latches and remove the front part of the front panel. Remove the air flow separator by pulling one of the side clamps. Install the front part of the front panel and press it gently to close the air duct.

The fan turns off automatically. The unit functionality is not changed.

Open the air duct in the reverse order.

The fan starts operating according to the actual speed setting.



The front panel incorporates an operating LED indicator. During the dark time the indicator light intensity drops down.



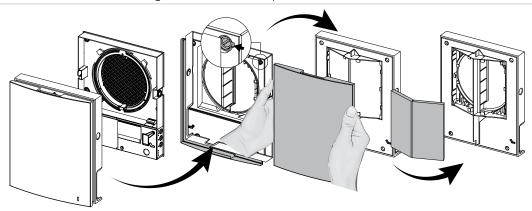
TECHNICAL MAINTENANCE

Maintenance of the ventilator means regular cleaning of the ventilator surfaces of dust and cleaning and replacement of the filters. To access the basic assembly units follow the steps:

Turn off the unit using the remote control or the buttons on the indoor unit.

VENTO Expert DUO A30-1 Pro

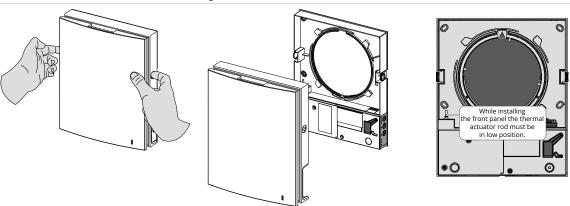
1. Press the latches on the side of the indoor control unit to take off the front part. Then open the latches and remove the front part of the front panel. Remove the filters for cleaning. Reverse the above procedures to reassemble.



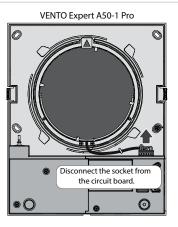
VENTO Expert A50-1 Pro

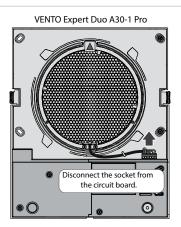
1. Press the latches on the side of the indoor control unit to take off the front part.

Please make sure the thermal actuator rod is in lower position during re-installation of the front panel. If the thermal actuator rod is up, please wait for about 2 minutes until it goes down.

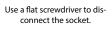


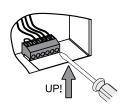
2. Disconnect the socket from the circuit board. While removing the socket do not pull the wires. Uplift it with a flat screw driver of a respective size.







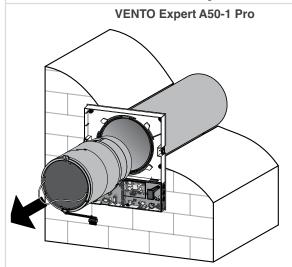




WARNING! Never remove the control board! It may cause an alarm! After completion of the servicing and assembly of the ventilation unit and re-installation of the socket reset an alarm following the procedure on page 16.



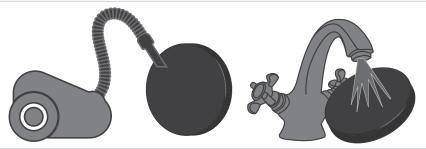
3. Pull the cord to remove the cartridge from the air duct.





Clean the filters as they get clogged, but not less than once in three months.

- · After the set filter replacement periodicity (90 days) has expired the Filter indicator starts glowing.
- For the **VENTO Expert A50-1 Pro** unit the filter timer is reset once the cartridge socket is disconnected from the circuit board.
- · Reset the filter timer for the VENTO Expert DUO A30-1 Pro unit by turning the DIP switch 8 off and back on again.
- Wash the filters and let them get dry. Install dry filters in the air duct.
- Vacuum cleaning is allowed.
- The filter rated service life is 3 years.
- For new filters contact the Seller.



Some dust may accumulate on the heat exchanger block even in case of regular maintenance of the filters.

- Clean the regenerator regularly to ensure its high heat recovery efficiency.
- · Vacuum clean the regenerator not less than once a year.



4. Replacement of the remote control battery (if necessary).

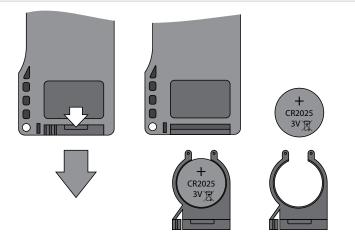
In case of a long operation of the remote control the battery must be replaced.

No response of the unit for pressing the remote control buttons indicates the need to replace the battery.

Battery type: CR2025.

Remove the holder with the battery from the lower part of the remote control.

Replace the battery and install the holder with a new battery back to the remote control.





TROUBLESHOOTING

POSSIBLE REASONS AND TROUBLESHOOTING

Problem	Possible reasons	Troubleshooting		
When switching on the ventilator the fan does not start.	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot the connection error.		
	The motor is jammed, the impeller blades are soiled.	Turn the ventilator off. Troubleshoot the motor jam and the impeller clogging. Clean the blades. Restart the ventilator.		
Circuit breaker tripping during the ventilator start-up.	Overcurrent as a result of short circuit in the electric circuit.	Turn the ventilator off. Contact the Seller for further information.		
	Low set fan speed.	Set higher speed.		
Low air flow.	The filters, the fan or the regenerator is clogged.	Clean or replace the filter. Clean the fan and the regenerator.		
Noise, vibration.	The impeller is clogged.	Clean the impeller.		
	Loose screw connection of the ventilator casing or the outer ventilation hood.	Tighten the screws of the ventilator or the outer ventilation hood.		

STORAGE AND TRANSPORTATION REGULATIONS

Store the unit in the manufacturer's original packing box in a dry closed ventilated premise with temperature range from +5 °C (+ 41 °F) to + 40 °C (104 °F).

Storage environment must not contain aggressive vapours and chemical mixtures provoking corrosion, insulation and sealing deformation.

Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.

Follow the handling requirements applicable for the particular type of cargo.

The unit can be transported in the original packing by any mode of transport without limitation provided proper protection against precipitation and mechanical damage.

Avoid sharp blows, scratches or rough handling during loading and unloading.



MANUFACTURER'S WARRANTY

The manufacturer hereby warrants normal operation of the unit for 24 months after the retail sale date provided the user's observance of the transportation, storage, mounting and operation regulations.

Should any malfunctions occur in the course of the unit operation through the Manufacturer's fault during the guaranteed period of operation the user is entitled to elimination of faults by the manufacturer by means of warranty repair at the factory free of charge.

The warranty repair shall include work specific to elimination of faults in the unit operation to ensure its intended use by the user within the guaranteed period of operation.

The faults are eliminated by means of replacement or repair of the unit components or a specific part of such unit component.

The warranty repair does not include:

- routine technical maintenance
- unit installation/dismantling
- unit setup

To benefit from warranty repair the user must provide the unit, the user's manual with the purchase date stamp and the payment document certifying the purchase.

The unit model must comply with the one stated in the user's manual.

Contact the Seller for warranty service.

The manufacturer's warranty does not apply to the following cases:

- User's failure to submit the unit with the entire delivery package as stated in the user's manual including submission with missing component parts previously dismounted by the user.
- Mismatch of the unit model and the brand name with the information stated on the unit packing and in the user's manual.
- User's failure to ensure timely technical maintenance of the unit.
- External damage to the unit casing (excluding external modifications as required for installation) and internal components caused by the user.
- Redesign or engineering changes to the unit.
- · Replacement and use of any assemblies, parts and components not approved by the manufacturer.
- · Unit misuse.
- User's violation of the unit installation regulations.
- · User's violation of the unit control regulations.
- · Unit connection to the power mains with a voltage different from the one stated in the user's manual.
- Unit breakdown due to voltage surges in the power mains.
- Discretionary repair of the unit by the user.
- Unit repair by any persons without the manufacturer's authorization.
- Expiration of the unit warranty period.
- User's violation of the unit transportation regulations.
- · User's violation of the unit storage regulations.
- · Wrongful actions against the unit committed by third parties.
- Unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind, blockades).
- · Missing seals if provided by the user's manual.
- Failure to submit the user's manual with the unit purchase date stamp.
- · Missing payment document certifying the unit purchase.



FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT.



USERS' WARRANTY CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE PURCHASE DATE STAMP.



ACCEPTANCE CERTIFICATE

	VENTO Expert A50-1	Pro	VENTO Expert DUO A30-1	Pro	
		is recogn	ized as serviceable.		
Electromagnetic Compatibility. We hereby declare that the uni	t complies with the essenti 3/EEC and CE-marking Dire ical appliances used in set	al protection ective 93/68/E voltage class	requirements of Electromagnetic Co EC on the approximation of the law es.	ouncil Dire	quipment Directives, EU-Directives on ective 2004/108/EC, 89/336/EEC and Low ember States relating to electromagneti
Quality Inspector's Stamp	Manufacture Date				
CONNECTION CERTIFICA	TE				
	Heat recovery	single room	unit with heat and humidity re	covery	
	VENTO Expert A50-1	Pro	VENTO Expert DUO A30-1	Pro	
Company:Expert's Full Name					
DateSignal	gnature				
WARRANTY CARD					
	VENTO Expert A50-1	Pro	VENTO Expert DUO A30-1	Pro	
SELLER					
PURCHASE DATE					
REPRESENTATIVE IN EU					
BLAUBERG Ventilatoren GmbH Aidenbachstr. 52a,					

Heat recovery single room unit with heat and humidity recovery



D-81379 Munich, Germany



