

## HEAT RECOVERY SINGLE-ROOM VENTILATION UNITS



### VENTO Solar V60 Pro VENTO Solar V60 Pro2

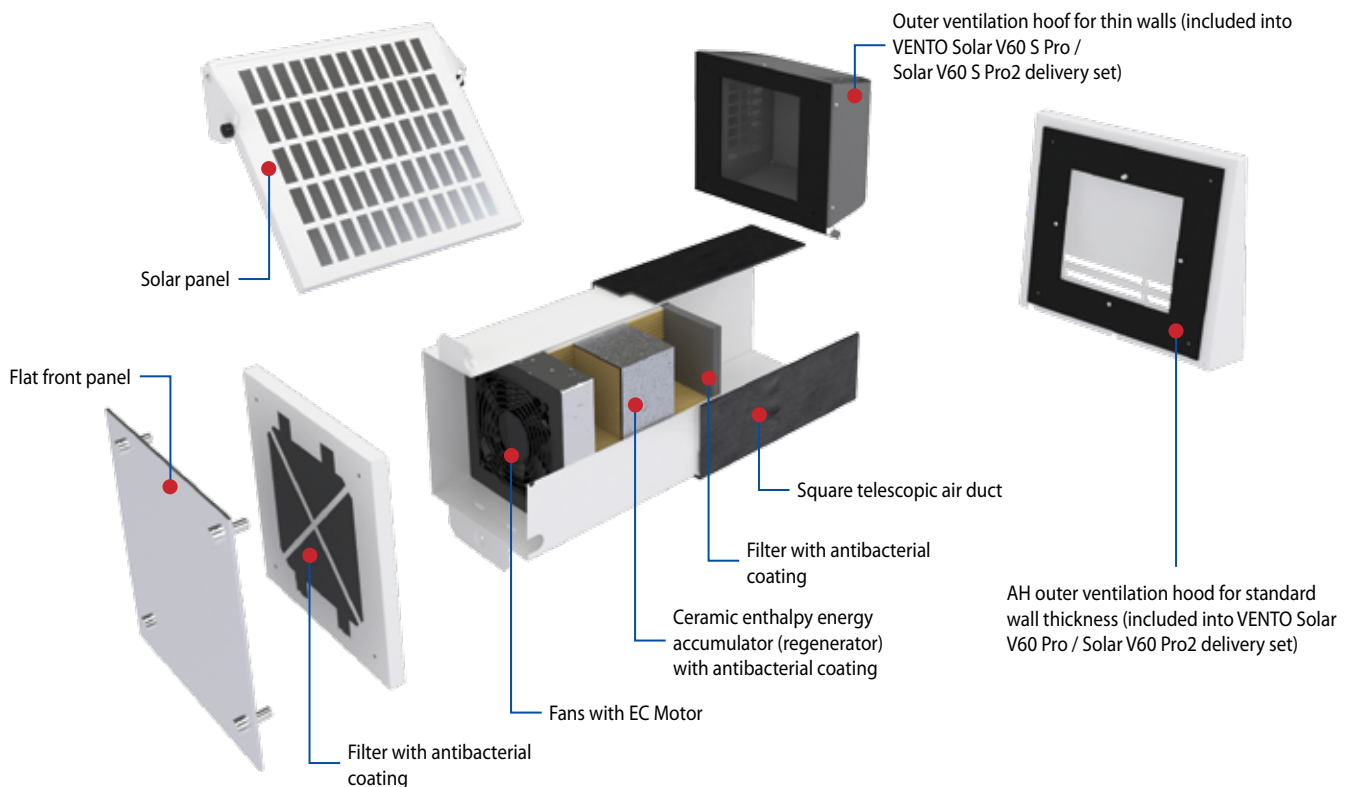
*Air capacity – up to 58 m<sup>3</sup>/h  
Heat recovery – up to 88 %*

#### ■ Use

- Arrangement of efficient energy-saving supply and exhaust single-room ventilation in flats, houses, cottages, social and commercial premises
- Heat recovery minimises ventilation heat losses.
- Humidity balance and controllable air exchange create individually set microclimate.
- Coordinated network based on several integrated controlled single-room ventilation units.

#### ■ Design

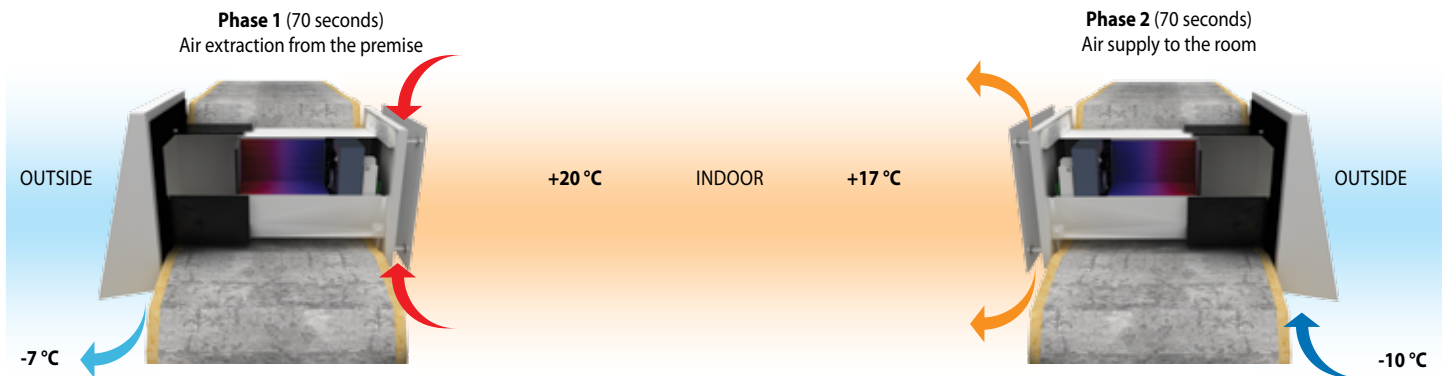
- The unit is operated by solar energy generated by the solar panel. Vento Solar is suitable for power-independent operation without connection to 230 V power supply. If the unit is connected to power mains it switches to 230 V power supply source in case of no solar light conditions or a full discharge of a storage battery.
- The **VENTO Solar V60 Pro2** delivery set includes a storage battery with a charger. In the day time the solar panel is used for power supply to the unit and charging of a storage battery. In the night time the unit is powered by the storage battery. The integrated charger prevent overcharging and discharging of the storage battery.



#### ■ Heat and moisture regeneration

- High-tech ceramic energy accumulator with heat recovery up to 88 %.
- Due to its cellular structure it has a larger contact area surface and high efficiency. The energy accumulator is featured with excellent heat-conducting properties and thermal energy storage capacity.

### Unit operating logic in winter period



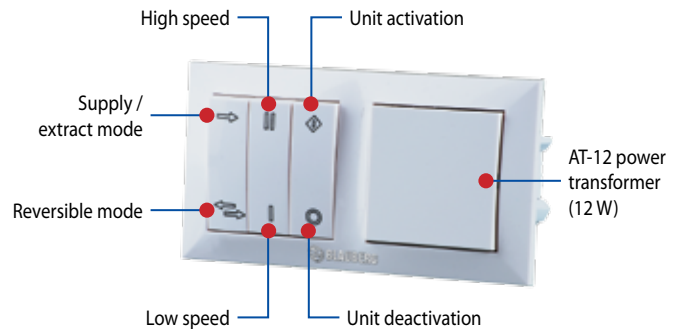
- Warm stale air is extracted from the premise, flows through the ceramic regenerator and transfers a part of the accumulated heat and moisture to it.
- As the ceramic regenerator gets warmed up, the unit switches to the supply mode.
- Clean cold intake air flows through the regenerator and absorbs accumulated heat and humidity.
- When the ceramic regenerator is cooled down, the unit is switched to the extract air mode.

### Control

The control and power unit SEV-T12 consists of SEV control panel and AT-12 power transformer.

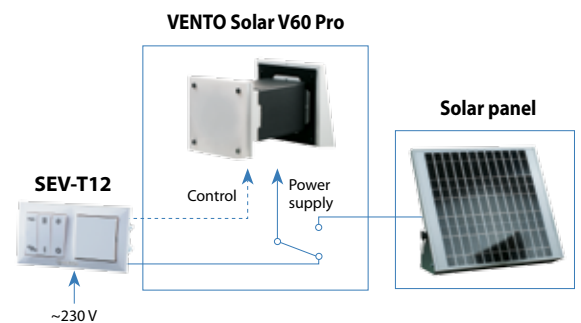
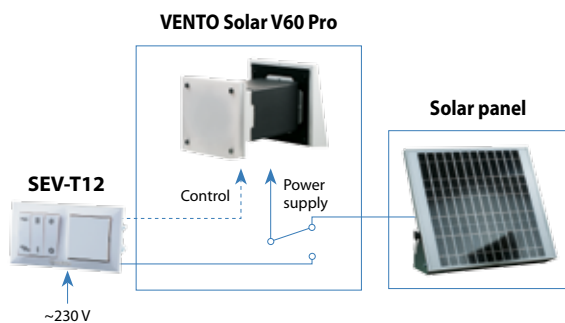
- The control and power unit SEV-T12 is able to operate unlimited number of ventilation units and has the following functions:
  - Activation/Deactivation of the unit.
  - Low and high speed changeover.
  - Heat recovery or ventilation mode selection.
- The power transformer AT-12 is able to supply power to up to four ventilation units from 230 V power mains.

The control system includes a switching unit installed on the ventilation unit. It is used for selection of a power supply source, either a solar panel, a storage battery or 230 V power supply.



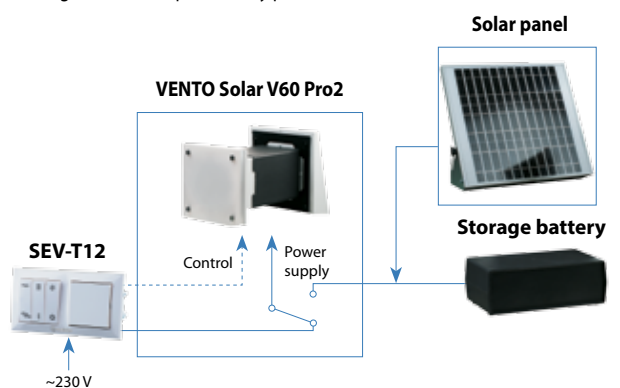
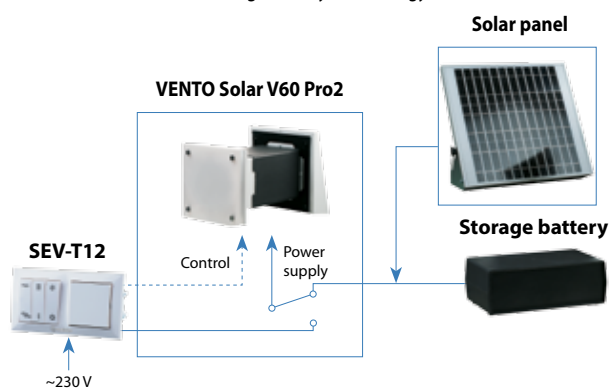
### VENTO Solar V60 Pro / VENTO Solar V60 S Pro connection

- In the **day time** the unit is powered by the solar panel.
- In the **night time** or in low light conditions the unit is powered by power mains.



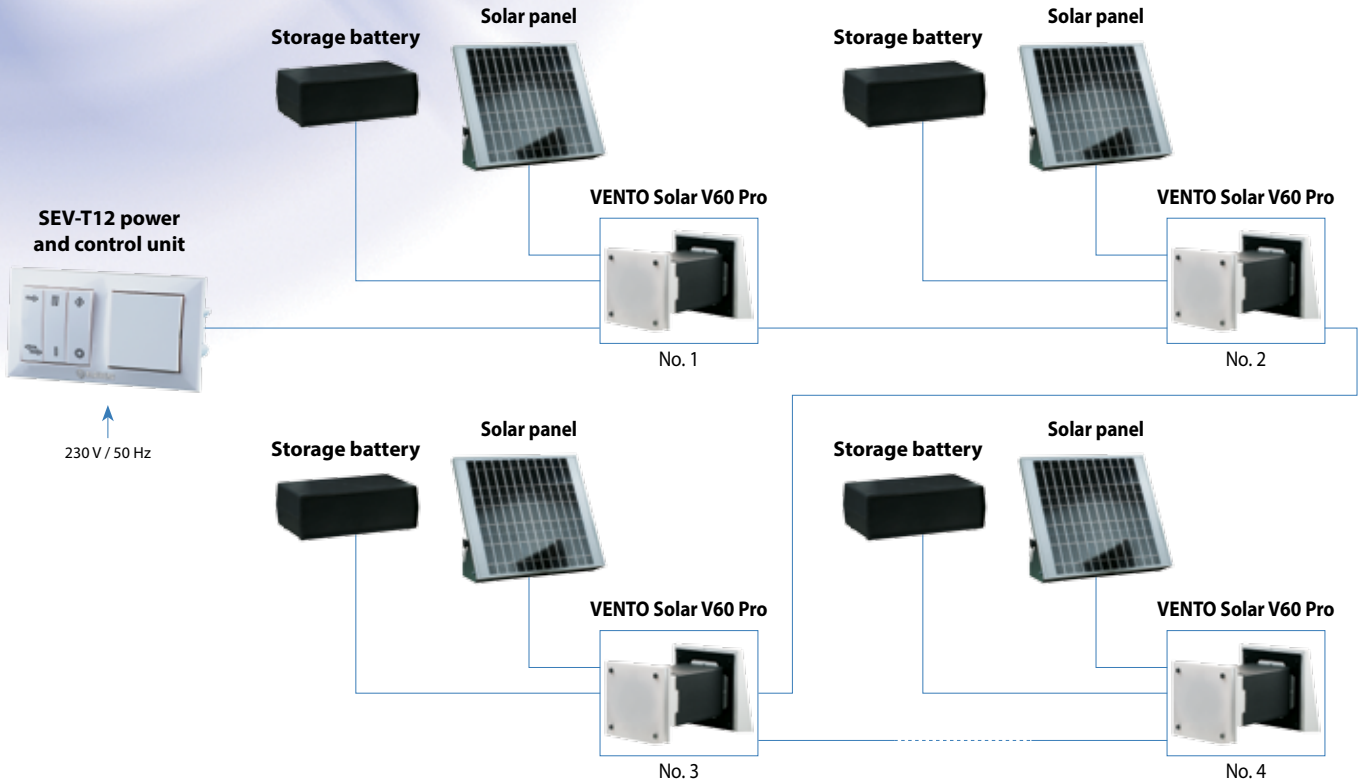
### VENTO Solar V60 Pro2 / VENTO Solar V60 S Pro2 connection

- In the **day time** or when the storage battery is charged the unit is powered by the accumulated in the storage battery solar energy.
- In the **night time**, in low light conditions or when the storage battery is discharged the unit is powered by power mains.



# HEAT RECOVERY SINGLE-ROOM VENTILATION UNITS

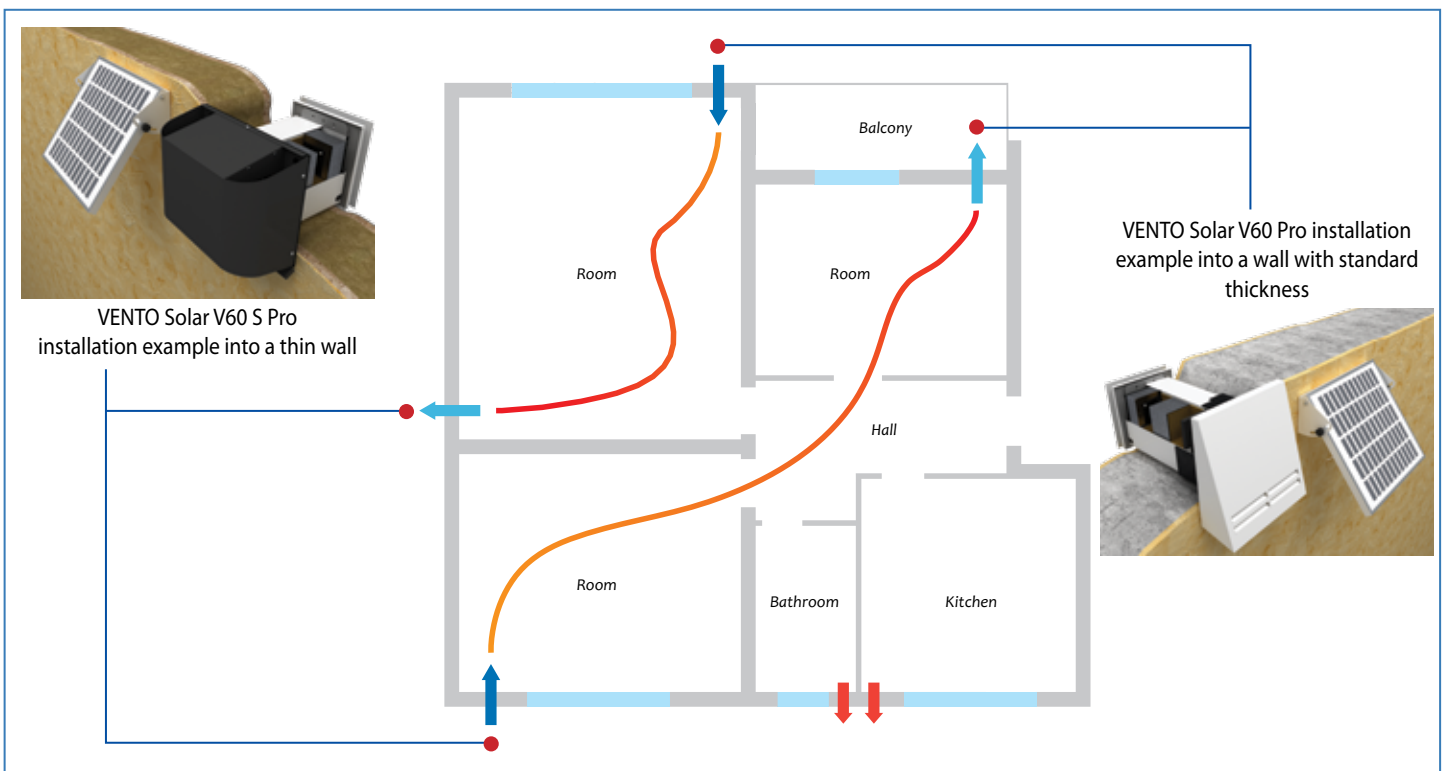
□ If several **VENTO Solar Pro2** units integrated into a single system, each ventilation unit must be connected to its own solar panel and a storage battery.



## ■ Mounting

- The unit is designed for external through-the-wall installation inside a prepared square hole in the outer wall of the building.
- The best ventilation solution is pairwise installation of reverse phase

connected units. Some units supply fresh air to the room and the other units extract stale air from the room. This allows to arrange the most efficient balanced ventilation. The best ventilation solution is a pairwise installation of reverse phase connected units.



## Technical data

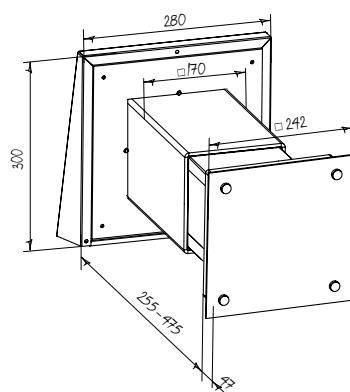
Parameters	VENTO Solar V60 Pro / VENTO Solar V60 Pro2 VENTO Solar V60 S Pro / VENTO Solar V60 S Pro2	
	1	2
Speed	1	2
Voltage [V]	12	
Power [W]	2.8	4.8
Current [A]	0.018	0.028
RPM [min <sup>-1</sup> ]	1150	2100
Air capacity [m <sup>3</sup> /h]	35	58
Sound pressure level at 1 m [dB(A)]	34	41
Sound pressure level at 3 m [dB(A)]	24	29
Outdoor sound pressure attenuation [dB(A)]	19	
Regeneration efficiency [%]	up to 88	
SEC class	A+	
Ingress protection rating	IP 24	

Parameters	Solar panel
Voltage [V]	18
Power [W]	20
Current [A]	1.12

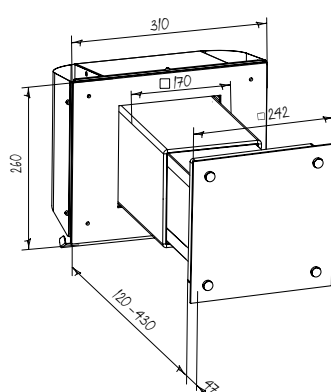
Parameters	Battery (for Pro2 models)
Voltage [V]	12
Capacity [A/h]	20
Current [A]	1.12

Parameters	Charger (for Pro2 models)
Voltage [V]	12
Current [A]	3

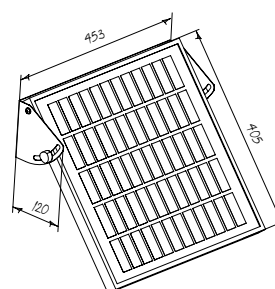
## Overall dimensions



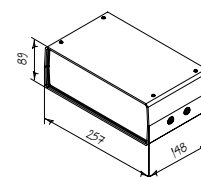
VENTO Solar V60 Pro / Pro2



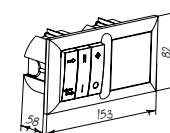
VENTO Solar V60 S Pro / Pro2



Solar panel






Storage battery



Power and control unit

## Accessories

Accessory name	Description
 <p>Control unit <b>SEV</b></p>	<input type="checkbox"/> <b>SEV</b> is an external control unit for operation of the unit.
 <p>Power transformer <b>AT-40 (230/12)</b></p>	<input type="checkbox"/> <b>AT-40</b> is a 40 W power transformer suitable for connection for max. 12 ventilation units. Used jointly with SEV control unit it ensures a central controllable ventilation system.
 <p>Power transformer <b>AT-12 (230/12)</b></p>	<input type="checkbox"/> <b>AT-12</b> is a 12 W power transformer suitable for connection for max. 4 ventilation units. Used jointly with SEV control unit it ensures a central controllable ventilation system.