

## **Assembly Manual**

### **Central Control Unit SEC-20-BF**

#### **(with humidity sensor)**



#### **Production:**

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As at: 11/2016

## Notes

Explanation of the safety-relevant symbols and terms used in this manual:



**Danger:** indicates a danger with a high risk which can cause death or serious injuries if it is not avoided.



**Warning:** indicates a danger with a mean level of risk which can cause death or serious injuries if it is not avoided.



**Caution:** indicates a danger with a low level of risk which can cause slight or moderate injuries if it is not avoided.



**Note:** Failure to adhere to the instruction or guideline can damage the device or affect the proper functioning of the device.

For the purpose of this manual, the term qualified personnel refers to persons who have the appropriate professional education to perform the activities required (e.g. electrical installation, heating and ventilation installation) and know the relevant standards and regulations.

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For proper disposal of packaging, separate it according to the specific material! If you want to dispose of the system, observe the current provisions! Contact the local authority for detailed information!



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## 1. General information concerning the Installation Manual

**Check the product for completeness (see packing slip) and transport damage immediately after receiving it! The product must be stored at a safe and dry place!**

**!** Refer to the instructions in this Assembly Manual!

Please, observe the **approval regulations** and the applicable **construction provisions** as well as the **fire prevention regulation** and **accident prevention regulations** of the Employers' Liability Insurance Association when planning, installing and operating the system. When planning the ventilation system, details must be discussed with the responsible chimney sweeper and construction manager!

Before installation, contact your planner to get to know whether a RAL installation is required.

**Assembly works and electrical installations are to be carried out by qualified personnel!**

Use the ventilation system only in compliance with the applications described in this documentation and only in connection with components which have been recommended and approved by the company SEVentilation and are specified in this documentation.

Modifications or reconstructions of the ventilation system are not permitted. The correct and safe operation of the ventilation system is only possible, if it is properly transported, stored and mounted as well as carefully operated and maintained. This documentation is part of the ventilation system and must always be at hand. Observe all safety regulations included in this documentation.

The manufacturer shall not be held liable for damages caused by improper installation, connection and use of the system. The warranty will expire. The legal warranty periods shall apply according the General Terms and Conditions!

A SEVi 160/200 ventilation system includes at least 2 SEVi 160/200 fans and a SEC-20-BF control unit. Ideally, an even number of devices (max. 6) is to be installed (exception: SEVi 160 DUO (max. 3)).

The ventilation system is operated by a direct voltage of 12 V.



### Notes:

- The ventilation system is always controlled via the control unit.
- The humidity level (can be activated optionally) is always determined at the control unit
- The system must not be operated in rooms with high dust rate.
- The system must not be operated in rooms in which decomposing gases are used.
- The system is not suited for drying out buildings.
- The ventilation system shall only be started up after the completion of the

construction works.

- The ventilation system is to be closed during the construction works.
- Temperature range of application: 0°C to 40°C, max. 95% RH

## 2. Standard scope of delivery

|                                                                                                                                                                                                                              |                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- operator control unit SEC-20-BF</li> <li>- switch-mode power supply</li> <li>- 2 x flush-mounted socket with a depth of 62 mm with device screws</li> <li>- double frame</li> </ul> |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|

## 3. Assembly



### Note:

Study the complete Assembly Manual carefully before starting the installation to avoid possible installation errors! The installation of the ventilation system requires prior thorough planning by the responsible construction manager!

Faulty installation can cause trouble in the operation of the ventilation system and can void the warranty. The ventilation system must be installed by qualified personnel!

### Important for operation with humidity feature:

- The permanent accessibility of the components must be guaranteed.
- Installation in humidors: The power-supply unit and the operator control unit belonging to it must not be installed in the zones 0, 1 and 2 according to the German regulation DIN 57100/VDE 100 Part 701!
- The operator control must not be installed and operated directly next to heat sources (heating unit, cooker or oven) at which the temperature can exceed 40°C (no direct sunlight either)!
- The operator control can be installed in the direct humidity area (next to washbasin, tub or shower)!



### Danger:

**All works shall only be carried out when the system is in de-energized condition!**

Adhere to the installation instructions of this manual. Moreover, a connection plan is added to the operator control unit.

- tools required: slot cutter, drill bit for installing flush-mounted sockets, screw drivers

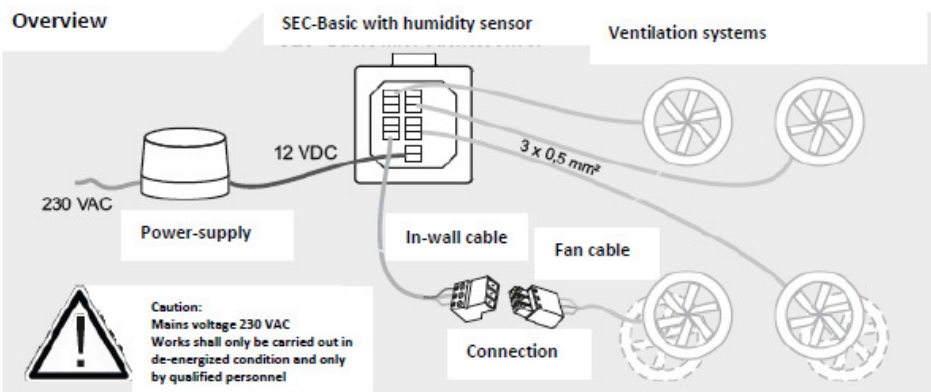


**Note:** When installing the devices it is absolutely necessary to ensure star-shaped

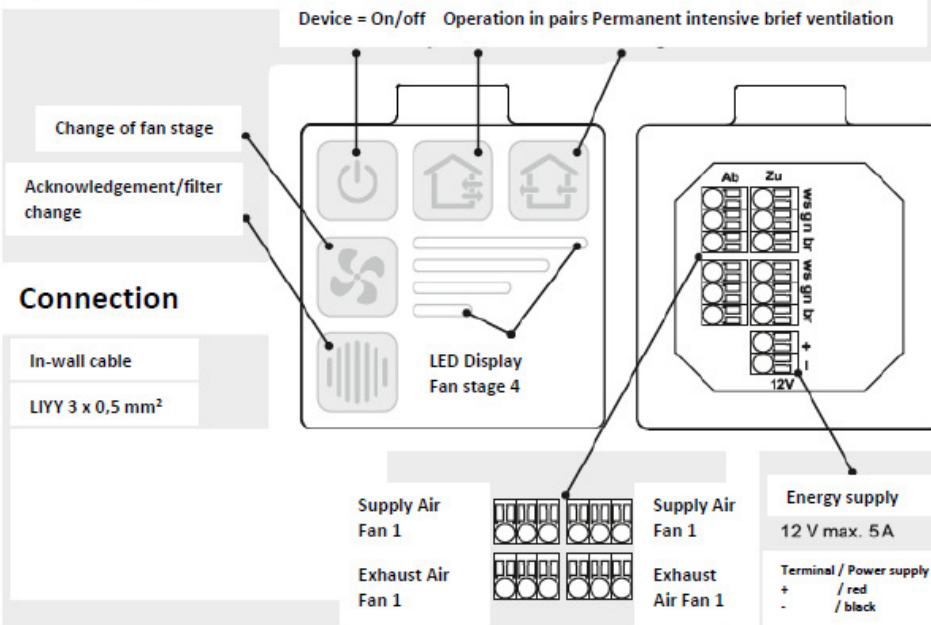
wiring!

## SEC-Basic with humidity sensor

Manual and humidity-managed control of up to six ventilation systems  
Power supply and speed control of the ventilation systems connected  
Operating mode selection, ventilation level selection and filter runtime counting  
Assembly in standard flush-mounted sockets



## Operating elements



**CE Konformitätserklärung** CE Declaration of Conformity  
Die SEVentilation GmbH bescheinigt die Konformität für das Produkt:  
The SEVentilation GmbH here with declares conformity of the product:  
**SEC-Basic mit Feuchtesensor (SWD0019E20A)**  
mit den folgenden Bestimmungen:  
with applicable regulations:

EMV-Richtlinie 2014/30/EU  
EMC-Directive 2014/30/EU  
RoHS-Richtlinie 2011/65/EU  
RoHS-Directive 2011/65/EU

angewendete harmonisierte EMV-Störfestigkeit EN 61000-6-1: 2007-10  
Normen:  
applied harmonised standards:  
EMC-Immunity EN 61000-6-1:2007-10  
EMV-Störaussendung EN 61000-6-3:2011-09  
EMC-Emission EN 61000-6-3:2011-09  
SEVentilation GmbH

Hersteller:  
Manufacturer:  
E.-Thälmann-Str. 12  
07768 Kahla

Datum, Name, Unterschrift: 27.01.2016,  
Date, Name, Signature: Dipl.-Wirt.-Ing (FH) Nico Schellenberg

### 3.1 Connectivity options

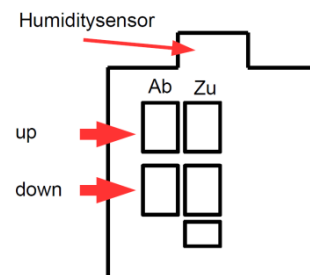
The central control unit SEC-20-BF can be used for operating the fans of the SEVi 200 and SEVi 160 series. Moreover, the SEVi 160DUO MINI (available from autumn 2016) can be operated by using the SEC-20-BF.

Furthermore, the central control unit can be used as a humidity sensor.

**! Specific feature:** Die terminal assignment of the spring-type terminals depends on the fan models to be operated!

The fan terminals on the rear side of the operator control unit are separated in air incoming side (Zu) and air discharge side (Ab) on the one hand, and on the other hand in top (oben) and bottom (unten).

Air income and air discharge refer to the start direction or the intensive brief ventilation operation. A fan which is connected on the air incoming side, will work according to the air incoming mode in intensive brief ventilation or permanent ventilation operation; a fan which is connected on the air discharge side will transport the consumed air correspondingly.



**The bottom connecting terminals must be used for operating the SEVi 160DUO MINI ventilation system.**

**! Note:** SEVi 160 fans (**without SEVi 160DUO MINI**) can be operated in the configurations 1 - 3 by using the top and bottom terminals!

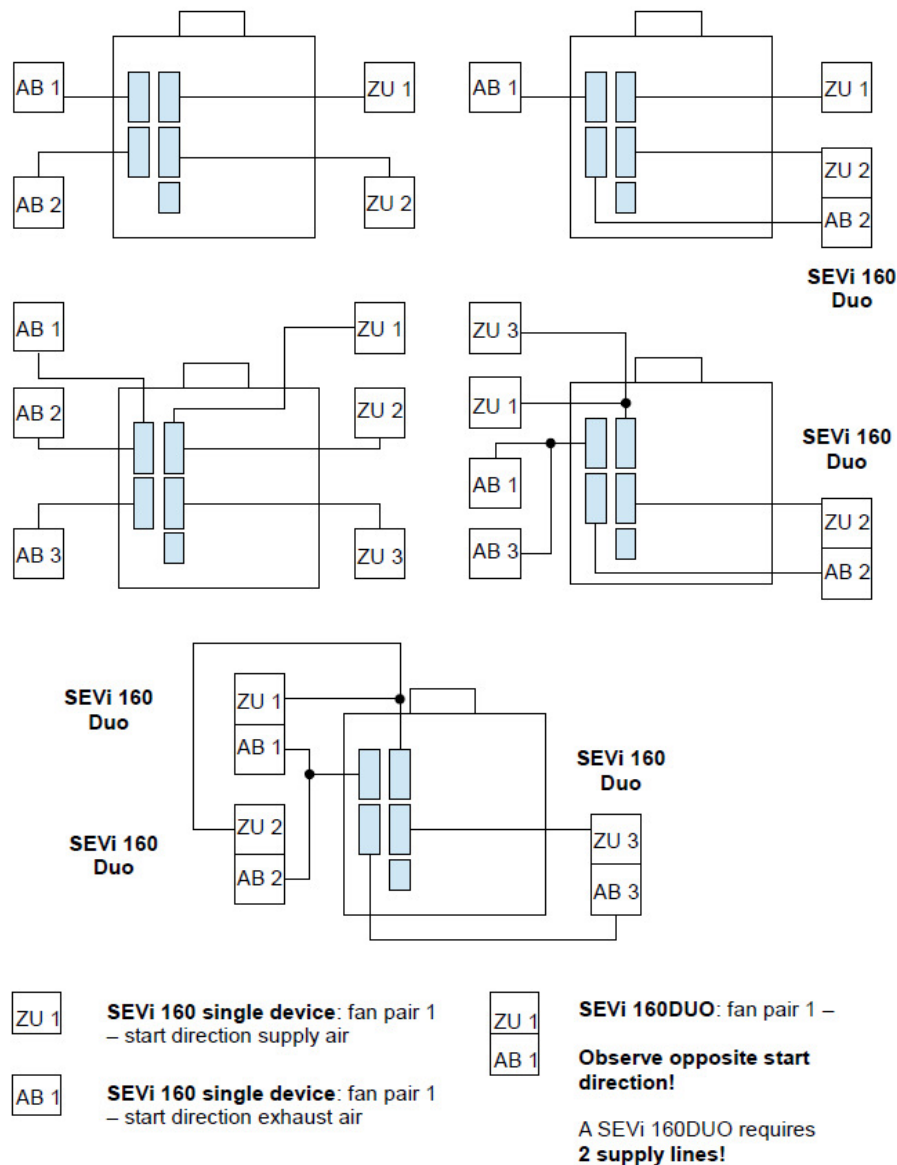
The sole operation of the SEVi 160DUO MINI or the simultaneous operation of SEVi 160 systems and SEVi 160DUO MINI fans requires the selectin of one of the configurations 4 - 7 and the appropriate assignment of the connecting terminals!

Depending on the device types used and the operating modes desired, the configurations indicated on pages 13/14 under 3.7 are to be set.

**! Note:** An individual cable (LIYY 3 x 0.5 mm<sup>2</sup> or 3 x 0.75 mm<sup>2</sup>) is to be laid from **each fan (SEVi 160/200)** to the distributor board! **Two cables must be laid for the double fans SEVi 160 DUO and SEVi 160DUO Mini!**  
**max. length of the in-wall cable: 30 m**

## 3.2 Terminal assignments of SEVi 160 and SEVi 160DUO

**Attention: Only possible for the configurations 1-3!  
Connection of SEVi 160DUO Mini not possible!**

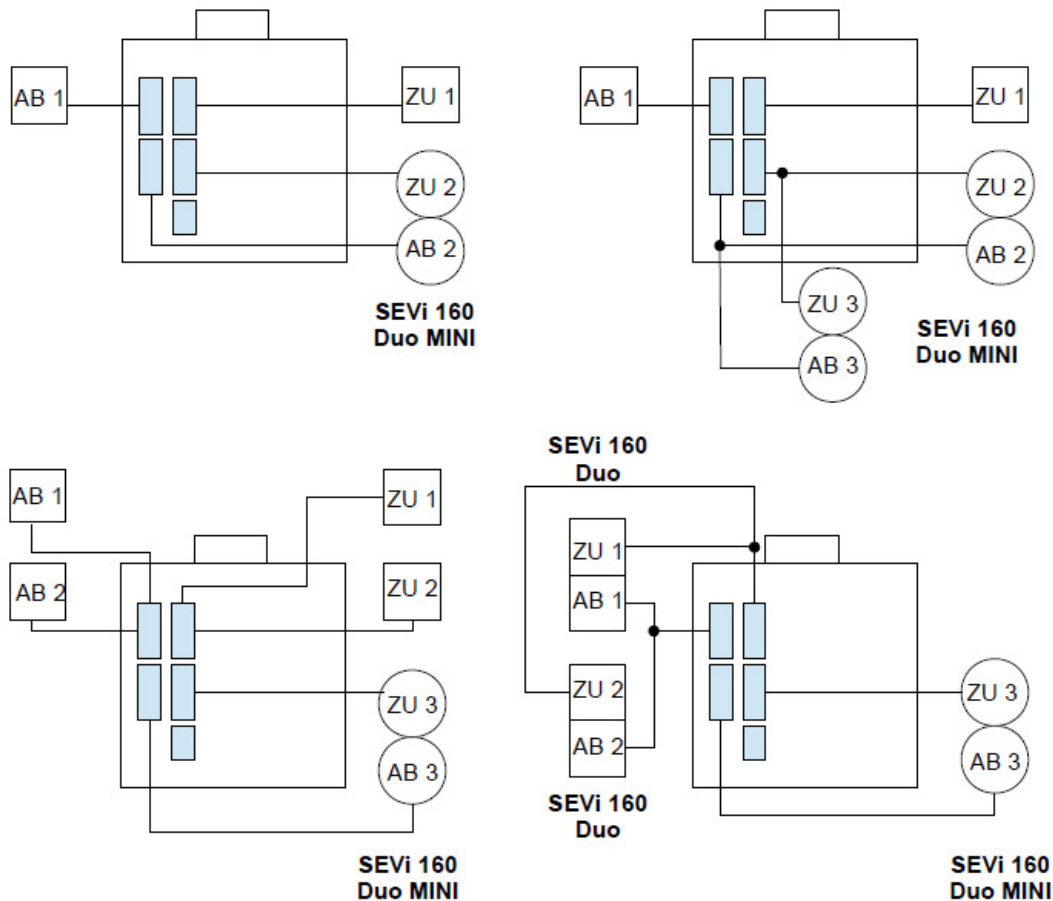


### Note:

An individual cable (LIYY 3 x 0.5 mm<sup>2</sup> or 3 x 0.75 mm<sup>2</sup>) is to be laid from **each fan (SEVi 160/200)** to the distributor board! **Two cables must be laid for the double fan SEVi 160DUO!**

### 3.3 Terminal assignments of SEVi 160/SEVi 160DUO and SEVi 160DUO MINI

**Attention: Only possible for the configurations 4 – 7!  
Only SEVi 160DUO Mini devices may be connected to  
the bottom terminals!**



**ZU 1** SEVi 160 single device 1  
- start direction supply air

**AB 1** SEVi 160 single device 1  
- start direction exhaust  
air

**ZU 1**  
**AB 1**

**SEVi 160DUO: fan pair 1**  
**Observe opposite start  
direction!**  
A SEVi 160DUO requires  
**2 supply lines!**

**AB 1**  
**ZU 1**

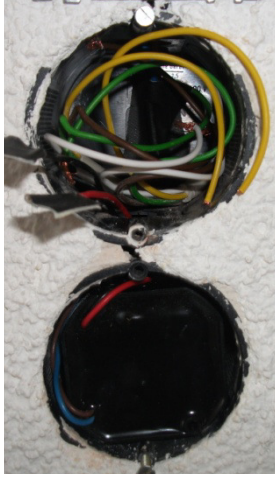
**SEVi 160DUO MINI:**  
Fan pair 1  
Observe opposite start  
direction!  
A SEVi 160DUO MINI  
requires **2 supply lines!**



#### Note:

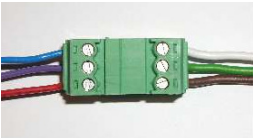
An individual cable (LIYY 3 x 0.5 mm<sup>2</sup> or 3 x 0.75 mm<sup>2</sup>) is to be laid from **each fan (SEVi 160/200)** to the distributor board! **Two cables must be** laid for the **double fans SEVi 160 DUO and SEVi 160 DUO MINI!**

## 3.4 Assembly process

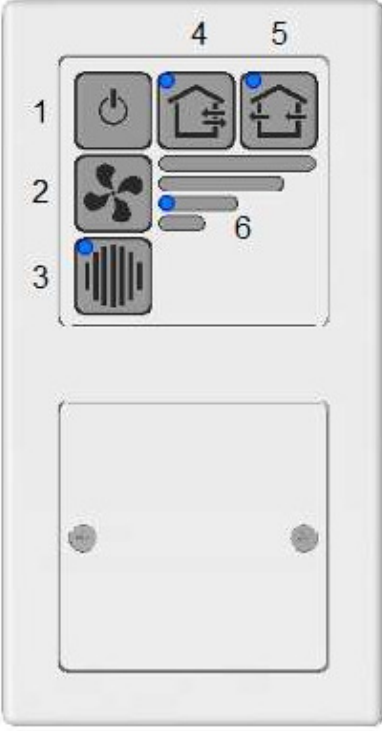
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Install the flush-mounted sockets<br/>upper socket for the operator control unit (fan connection) and lower socket for switch-mode power supply<br/><br/>(Assembly of the double frame also vertically possible; please see page 16 for <b>surface-mounted solution!</b>)</li> <li>2. Install the switch-mode power supply<br/>Install it such that the 12 V output and the 230 V input are <b>not on the same side</b> of the switch-mode power supply! (Position 230 V below!)<br/><br/>Lay the 12 V connection upwards.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                           |  |
| <ol style="list-style-type: none"> <li>3. Mount the lower part of the blind frame<br/><b>The lateral openings must not be positioned above the flush-mounted socket with the power supply!</b><br/>Connect the in-wall cables(min. 3x0.5 mm<sup>2</sup>) of the fans at the operator control unit according to the existing fan types (see <b>page 7</b>)</li> <li>4. Lead the connected operator control with humidity-sensor unit diagonally through the opening in the upper part of the blind frame; position the operator control unit placed in the upper part and push it on the lower part.</li> </ol> <p><b>! Note:</b><br/>To release the operator control unit, grasp the cover frame in the lower half and remove it carefully in vertical direction until the operator control unit can be taken from the lower part together with the upper part; try it several times if required.</p> <p><b>Do not use any tool for this purpose!</b></p> |  |

## 3.5 Fan connection

- Connecting plug to the ventilator (fan)

|                                         |                                                                                     |                                                                                                                                                  |
|-----------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection in-wall cable and ventilator |  | <b>Terminal/Cable↔Fan</b><br><br>br/brown                      red<br>gn/green                      violet<br>ws/white                      blue |
|-----------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.6 Functional overview

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>The control unit features a vertical arrangement of buttons. At the top are buttons 4 and 5. Below them are buttons 1, 2, and 3, each with a corresponding icon: a power symbol, a fan, and a filter respectively. To the right of these buttons is a horizontal bar with a small blue LED indicator and the number 6. Below the buttons is a large rectangular display area with two small circular indicators at the bottom.</p> | <p><b>1 Device On/Off:</b></p> <p><b>2 Selection of the fan stage:</b></p> <p><b>3 Acknowledgement/ filter change:</b></p> <p><b>4 Operation in pairs:</b></p> <p><b>5 Permanent intensive brief ventilation operation:</b></p> <p><b>Snooze function:</b></p> | <p>When the device is switched off, the fan continues to run for a short period of time.</p> <p>If this key is pressed repeatedly, the fan stages 1 – 4 are run through. The fan stage currently set is shown in the LED display (6).</p> <p>The end of the maintenance interval for the dust filter is signaled by the LED. The display will be reset if the key is pressed for ca. 5 seconds after the filter change.</p> <p>Heat recovery mode, normal operating condition in the fan stages 1 – 4*.</p> <p>*depending on the device type, see 3.7</p> <p>If this key is pressed, the ventilation system jumps to a permanent intensive brief ventilation mode which allows the ventilation of a room without opening the windows. For this purpose, stage 4* is set automatically.</p> <p>* depending on the device type, see 3.7</p> <p>The control unit is provided with a snooze function by means of which the system can be started with a delay of 60 minutes.</p> <ul style="list-style-type: none"> <li>• Set the desired operating mode and fan stage.</li> <li>• Keep the keys 3 and 5 pressed for at least 3 sec. (press key 3 first) -&gt; only the LED of the operating mode set (4 or 5) is lit.</li> <li>• Press the keys (2), (4) or (5) to terminate the snooze phase prematurely.</li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.7 Device types for the SEC-20-BF

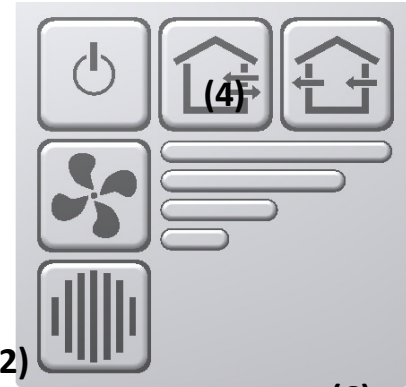
**Determining the device type-** The SEC-20-BF offers the possibility to connect different device types of the SEVi series with different configurations. Depending on the device type, various programmes are implemented in the software. They are described in the following.

To select them, the keys (4) “Alternating operation” and (2) “Fan stage” are to be pressed simultaneously for ca. 5 seconds.

Then, the LED display (6) flashes (see Table).

To change the configuration, the key (2) “Fan stage” is pressed to select another configuration (the corresponding LEDs flash).

You can exit the selection mode by keeping the keys (4) “Alternating operation” and (2) “Fan stage” pressed again for ca. 5 seconds.



| Configuration                                                                                                                                                                                     | Device type                                                                                                                                                                                                                                                                                                                                                                                                |                                                | Indicated by LED |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------|
| In the configurations 1 through 3, a difference is only made between air incoming side and air discharge side!All four terminals can be allocated by the devices of the SEVi 200/SEVi 160 series! |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                  |
| In the configurations 1 to 3, an allocation with the SEVi 160DUO MINI is not possible!                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                  |
| 1                                                                                                                                                                                                 | SEVi 200 (DIBt)                                                                                                                                                                                                                                                                                                                                                                                            | SEVi 160– sound-optimized operation at stage 1 | 1                |
| 2                                                                                                                                                                                                 | SEVi 160 (DIBt)                                                                                                                                                                                                                                                                                                                                                                                            |                                                | 2                |
| 3*                                                                                                                                                                                                | <b>SEVi 160 air discharge</b><br><br>Stage 4 is designed as a pure air discharge solution in which all fans connected are operated at the highest air discharge stage (irrespective of the connection on the operator control unit).<br><br> <b>Note: Sufficient air must come in for pure air discharge operation!</b> |                                                | 3                |
| *Configuration 3: If stage 4 is activated, all fans connected are automatically                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                  |

|                                                                                                                                                                                                                                                                                                                                                                  |               |                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                  |               | running (irrespective of their terminal assignment) in air discharge operation.<br>Intensive brief ventilation at stage 1-3 must be correspondingly set via (2)!                                                                                                                                                                                                                                      |                  |
| <p>In the configurations 4 to 7, attention must be paid additionally to the allocation of the top and bottom terminal strips! The SEVi 160DUO MINI can only be operated via the bottom terminal strip.</p> <p><b>The configurations 4 to 7 are designed for the common operation of the devices of the SEVi 200/160 series and SEVi 160DUO MINI devices!</b></p> |               |                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| <b>4</b>                                                                                                                                                                                                                                                                                                                                                         | <b>top</b>    | <b>SEVi 160</b> – sound-optimized operation at stage 1                                                                                                                                                                                                                                                                                                                                                | <b>4</b>         |
|                                                                                                                                                                                                                                                                                                                                                                  | <b>bottom</b> | <b>SEVi 160DUO MINI</b> - Stage 4 is designed as a pure air discharge solution in which the two fans are operated at the highest air discharge stage (irrespective of the connection on the operator control unit).<br><br> <b>Note:</b> Sufficient air must come in for pure air discharge operation!               |                  |
| <b>5</b>                                                                                                                                                                                                                                                                                                                                                         | <b>top</b>    | <b>SEVi 160 (DIBt)</b>                                                                                                                                                                                                                                                                                                                                                                                | <b>1 + 2</b>     |
|                                                                                                                                                                                                                                                                                                                                                                  | <b>bottom</b> | <b>SEVi 160DUO MINI</b> -Stage 4 is designed as a pure air discharge solution in which the two fans are operated at the highest air discharge stage (irrespective of the connection on the operator control unit).<br><br> <b>Note:</b> Sufficient air must come in for pure air discharge operation!              |                  |
| <b>6</b>                                                                                                                                                                                                                                                                                                                                                         | <b>top</b>    | <b>SEVi 160 air discharge</b> - Stage 4 is designed as a pure air discharge solution in which all fans connected are operated at the highest air discharge stage (irrespective of the connection on the operator control unit).<br><br> <b>Note:</b> Sufficient air must come in for pure air discharge operation! | <b>1 + 2 + 3</b> |
|                                                                                                                                                                                                                                                                                                                                                                  | <b>bottom</b> | <b>SEVi 160DUO MINI</b> - Stage 4 is designed as a pure air discharge solution in which the two fans are operated at the highest air discharge stage (irrespective of the connection on the operator control unit).<br><br> <b>Note:</b> Sufficient air must come in for pure air discharge operation!             |                  |
|                                                                                                                                                                                                                                                                                                                                                                  | <b>top</b>    | <b>SEVi 160 (DIBt)</b>                                                                                                                                                                                                                                                                                                                                                                                |                  |

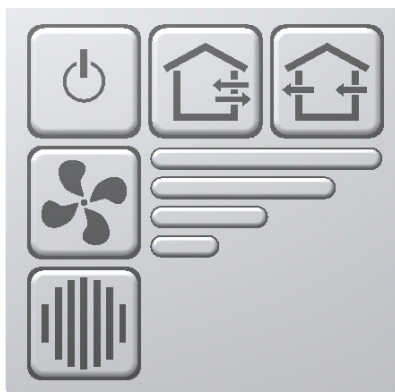
|   |        |                                        |               |
|---|--------|----------------------------------------|---------------|
| 7 | bottom | SEVi 160DUO MINI 4-stage HRS operation | 1 + 2 + 3 + 4 |
|---|--------|----------------------------------------|---------------|

### 3.8 Activating/changing the humidity feature

The SEC-20-BF central control unit can be operated optionally with or without humidity control.

The humidity control distinguishes between five different conditions:

| Condition            | Indication via LED in the setting mode | Humidity threshold (RH%) |
|----------------------|----------------------------------------|--------------------------|
| Humidity control off | All LEDs off                           | -                        |
| 1                    | LED fan stage 1 flashes                | 50                       |
| 2                    | LED fan stage 2 flashes                | 55                       |
| 3                    | LED fan stage 3 flashes                | 60                       |



|   |                         |    |
|---|-------------------------|----|
| 4 | LED fan stage 4 flashes | 70 |
|---|-------------------------|----|

To activate the humidity control or to set another humidity threshold, the following steps are to be taken:

Keep the keys “Alternating operation” and “Filter change” pressed for 5 seconds. The control changes to the activate/deactivate mode.

The condition currently set is indicated by the LED of the fan stages (see table).

The desired condition of the humidity control can be selected by pressing the key “Fan stage”.

Press the keys “Alternating operation” and “Filter change” anew for at least 5 seconds to save the setting selected. Then, the control unit returns again to normal operation.



#### **Noteto humidity control:**

In the activated mode of the humidity control, the room humidity is continuously measured. If the value which has been set for the humidity threshold is exceeded, the fan stage of the fans connected is increased by one stage until fan stage 4 is reached. The stages are gradually increased at 15-minute intervals.

If the value measured is lower than the humidity threshold set (minus a hysteresis of about 5%), the fan stage is decreased gradually again down to stage 1.

The manual change of the fan stage is still possible. However, the manual setting will be corrected at 15-minute intervals if the humidity control is switched on.

Delivery status: configuration 1, humidity control off

### **3.9Combination with surface-mounted housing(optionally available)**

If a surface-mounted solution is selected for the control unit installation, the surface-mounted housing supplied as accessory can be used.



In order to ensure that the double frame fits, only the circumferential strip must be removed.



#### **Important!**

**The surface-mounted housing must be provided with a separating element in the centre to ensure the proper functioning of the humidity analysis!**

Afterwards, the four screws can be used for fixing the lower part on the surface-mounted

housing.

## **EC Declaration of Conformity**

The company

**SEVentilation GmbH**  
E.-Thälmann-Str. 12-14  
07768 Kahla  
Germany

declares under its sole responsibility that the products:

of type: **SEVi 200 / SEVi 200U / SEVi 200L / SEVi 160 / SEVi 160DUO / SEVi 160U / SEVi 160DUO MINI / SEVi 160U / SEVi 160L / SEVi 160R / SEVi 160CE / SEVi 160RO / SEVi 160ALD / A160**  
(decentral ventilation devices with and without heat recovery),

to which this declaration refers, comply with the following standards and normative documents:

EN 55014 -1; 2006

EN 55014 -2; 1997, +A1; 2001

EN 61000-6-1, 2007; Generic Standards EMC – Immunity

EN 61000-6-3, 2007; Generic Standards EMC – Emission Standard

EN 61000-3-2, 12.2001; Low-Frequency System Perturbation

EN 61000-3-3, 1.1998

EN 60335-1, EN 60335-2-65; (safety of household and similar electrical appliances)

according to the provisions in the Directive 2004/108/EC or (EMC 2008), the Directive 2006/95/EC (Low Voltage Directive) and the RoHS Directive 2002/95/EC.

The decentral ventilation systems: "**SEVi 200 / SEVi 200U / SEVi 200L / SEVi 160 / SEVi 160DUO / SEVi 160DUO MINI / SEVi 160U / SEVi 160L / SEVi 160R / SEVi 160CE / SEVi 160RO / SEVi 160ALD / A160**" with and without heat recovery are used for the ventilation of apartments/accommodation units.

Kahla, 10/12/2015

  
 **SEVentilation**  
\*Graduate Industrial Engineer

Dipl.Wirt.Ing. (FH) Nico Schellenberg

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**The manufacturer reserves the right to change technical details!**

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