

Silvento surface–mount variant Installation direction

- Please pass on to the user -

Contents:	Page:
	J
Notes on these installation instructions	1
Safety precautions	1
Technical specifications, waste disposal	2
Dimensional drawings	3
Installation examples	3
Parts supplied	4
Assembly: Housing and electrical connection	5-7
Assembly: Ventilator insert and decor plate	7
Electrical connection, wiring diagrams	8-9
Run-out setting	10
Filter change, cleaning	10
Accessory and replacement parts	10

Notes on these instructions

- Read these instructions carefully and completely prior to starting installation! Be sure to observe the safety precautions in general and the safety symbol marked notes in the text.
- Pass these directions on to the user (renter, owner, block manager or other) when installation has been completed.

Symbols in these directions:



This symbol warns on danger of injury



This symbol warns on danger of injury by electricity

Safety precautions



Danger! Assembly work is only to be carried out on the ventilator when it is separated from the line voltage! The ventilator is protectively insulated to protective class II, the protective conductor connection is not needed!



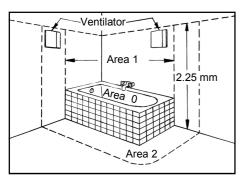
Caution! Electrical connection is only to be made by authorised skilled personnel and under observance of current VDE 0100 regulations of the German Electrical Engineering Association!



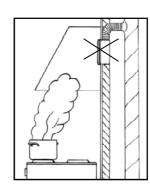
Caution! This piece of equipment is not to be operated (filter change, cleaning) by children or people who cannot operate it properly because of their physical, sensorial or mental ability, or their inexperience or lack of appropriate knowledge.



Ventilators in off-air exhaust operation must <u>always</u> be supplied with a functioning flow-in of outside air.



The German VDE 100 regulation permits installation in bath and shower room area 1



Ventilator installation as extractor hood is not permitted here

Technical specifications

Electrical connections

Voltage supply: 230 V AC 50 Hz

Control voltage (ventilator type ... FK): 12 V DC

Protection class:
Protection type:

Admissible for use in area 1 of wet rooms

General

Silvento type	Volume flow	Power consumption	Sound- pressure level	Run-out time	Interval	Inverse operation	Movement sensor	Humidity control range
V ¹⁾ or KL ²⁾	[m³/h]	[W]	[dB(A)]	[min.]	[h]			[% rh]
30/60/100	30/60/100	4.9/10.5/36.5	24/35/44					
30/60B	30/60	4.9/10.5	24/35				yes	
30/60ZII	30/60	4.9/10.5	24/35	6/ 15 ³⁾	4	yes		
30/60BZII	30/60	4.9/10.5	24/35	6/ 15 ³⁾	4	yes	yes	
60ZII	60	10.5	35	6/ 15 ³⁾	4	yes		
60BZII	60	10.5	35	6/ 15 ³⁾	4	yes	yes	
30/100ZII	30/100	4.9/36.5	35/44	6/ 15 ³⁾	4	yes		
30/100BZII	30/100	4.9/36.5	35/44	6/ 15 ³⁾	4	yes	yes	
100ZII	100	36.5	44	6/ 15 ³⁾	4	yes		
100BZII	100	36.5	44	6/ 15 ³⁾	4	yes	yes	
30-60 FK	30/40/50/60	5.3/7.2/8.9/10.9	24/27/32/35					50 - 70

II IP X4

Footnotes: 1) Silvento V units are ventilator inserts that additionally require either a concealed housing or surface-mount housing.

2) Silvento KL units are complete single pipe ventilators that are clamped in the curtain wall construction. Silvento KL single pipe ventilators fit in concealed housings of LUNOS Skalar versions.

3) The updated DIN 18017-3 requires the removal of a further 15 m³ air over the ventilation system after switching off the fan.

4) 30 min run-out time

All ventilators are equipped with a Class G2 (EN 779) filter and a filter change display.

Ventilators of the "Silvento" series fulfil all requirements:

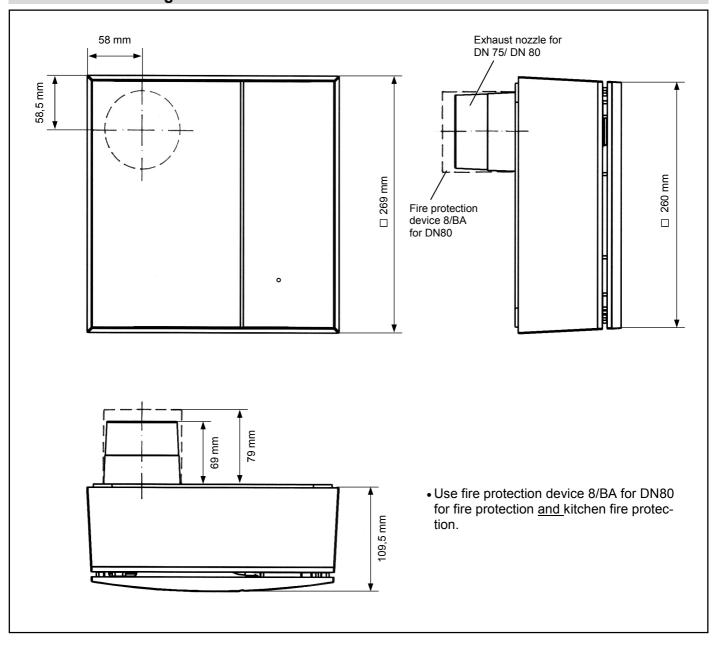
- of DIN 18017-3; Allgemeine Bauaufsichtliche Zulassung Z-51.1-215
- for low voltage (CE) acc. to EC Directives (2006/95/EG)
- for electromagnetic compatibility (CE) acc. to EC Directives (2004/108/EG)

Waste disposal



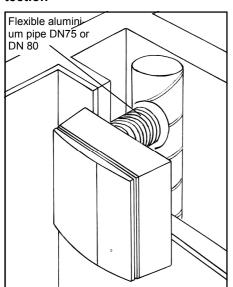
Sort the packaging for appropriate disposal. Observe current requirements should you want to dispose of the ventilator. Within the framework of the Electrical and Electronic Device Act (ElektroG), the return of this device free of charge is guaranteed at your local turn-in center.

Dimensional drawings:

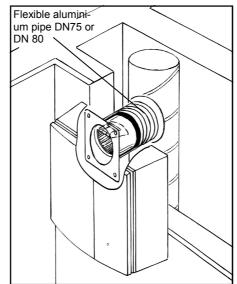


Installation examples

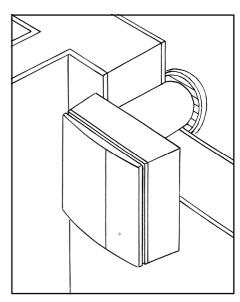
Duct installation without fire protection



Duct installation with kitchen fire protection

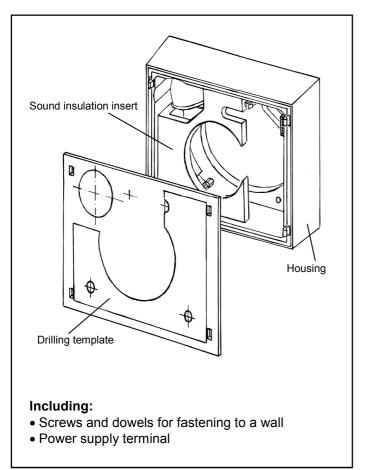


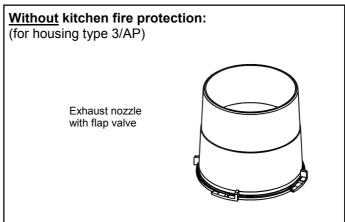
Exterior wall installation

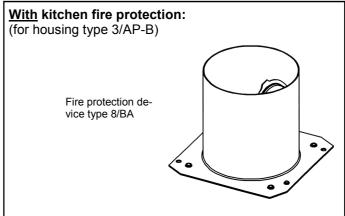


For fire protection, the duct wall must also be fire resistant for the required period

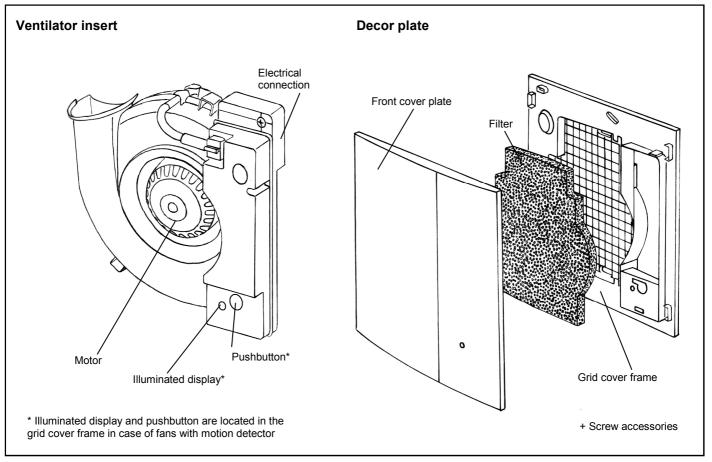
1 Housing + Nozzle with flap valve





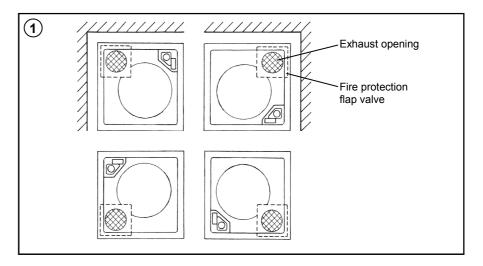


2 Ventilator insert Silvento V...



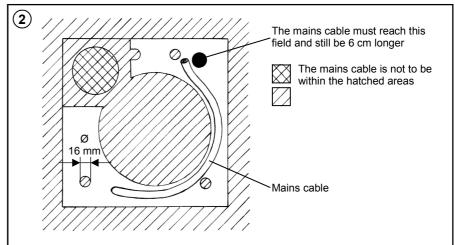
Assembly - Housing and electrical connection

Select the installation positioning of the system

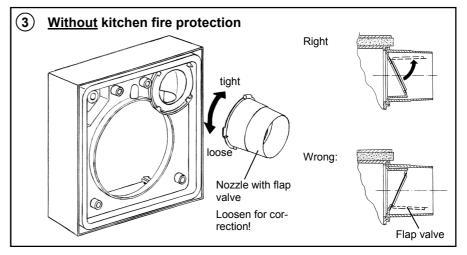


Check the mains cable position - use the drilling template!

Correct the installation position if necessary.

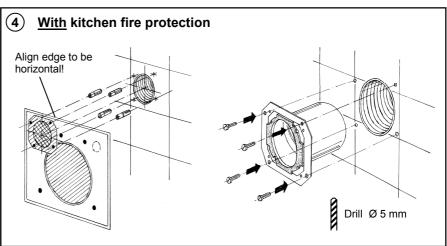


Check that the flap valve position corresponds to the selected installation position. Correct if necessary!



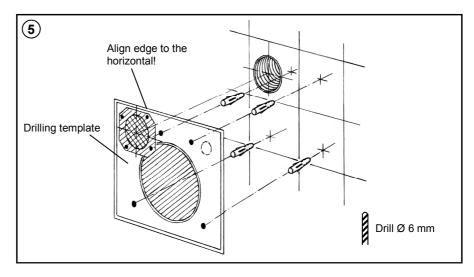
Mount the kitchen fire protection

- Bore the fixing holes and insert dowels (use the drilling template)
- The position of the flap valve must correspond to the selected installation position (see Fig. 3)

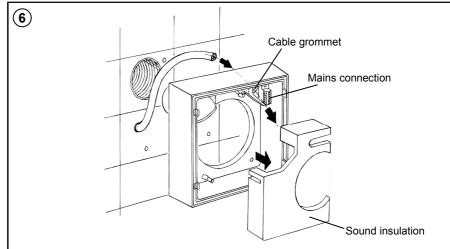


Bore the fixing holes and insert dow-

(Use the drilling template)

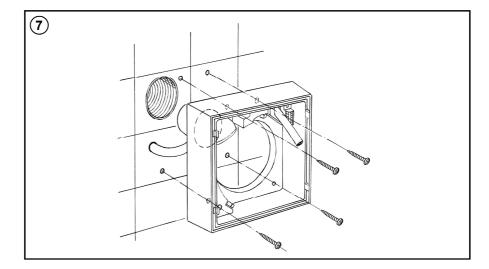


Clip the cable grommet (Ensure water-tightness, see Fig.® also) Take out the sound insulation and lead the mains cable in.



Fix the housing on:

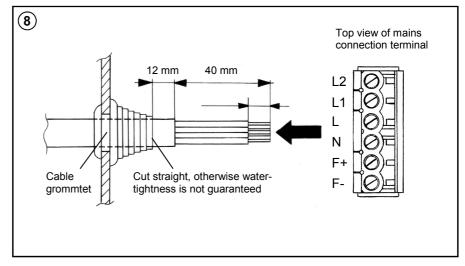
- Loop the mains cable to fit it behind the housing
- Fix the housing to the duct wall with the screws supplied



Mains connection:

- Strip the mains cable sheathing and insulation as shown
- Mount the mains connection terminal acc. to the chosen wiring diagram (see wiring diagrams). For easier mounting, press the mains connection terminal in the direction of the housing wall to remove it.

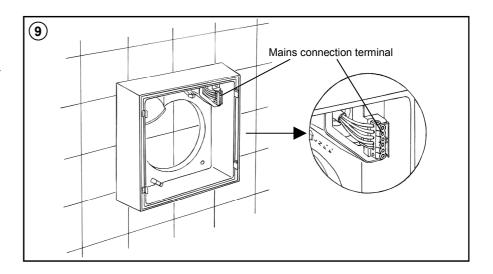
Caution! First make the mains cable currentless!



Snap in the mains connection terminal:

Caution:

Should housing installation and ventilator insert installation not be done in a single step, replace the sound insulation!



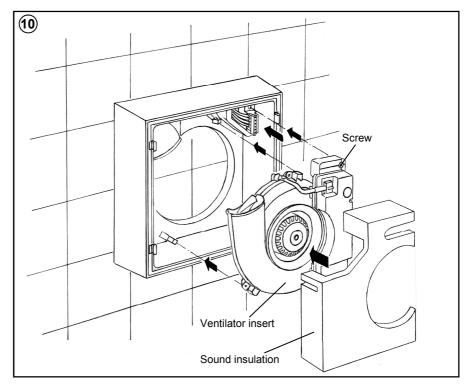
Assembly - Ventilator insert and decor plate -

Install the ventilator insert:

- Remove the sound insulation
- Snap the ventilator insert in and screw it to the mains connection area
- Insert the sound insulation

Caution!

Do not operate the ventilator without sound insulation!

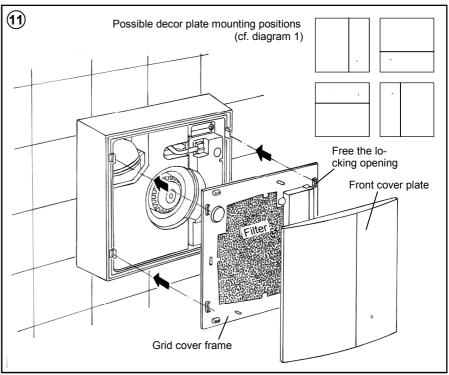


Install the decor plate:

- Free the locking opening in the grid cover frame (marked with "AP")
- Snap the grid cover frame on the housing
- Put the front cover plate on

Caution!

Always mount the grid cover frame and the front cover part according to the ventilator positioning!



Electrical connections - Wiring diagrams

Safety precautions:

Caution

Caution! Only carry out installation work on the ventilator when it is separated from the mains voltage! The ventilator is protectively insulated according to protective class II, the protective conductor connected is not needed.

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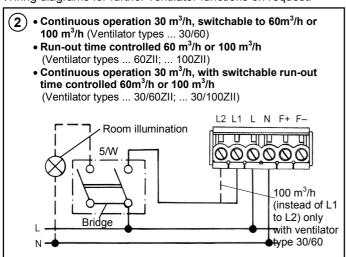
Ensure that all connecting cables to the ventilator are dead before connecting it! (Separate from the mains with at least a 3 mm contact space, e.g. electric fuse).

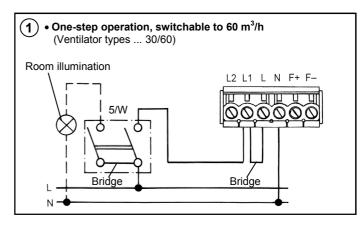
Each circuit belonging to the ventilator must be equipped with fault current protection (e.g. FI switch).

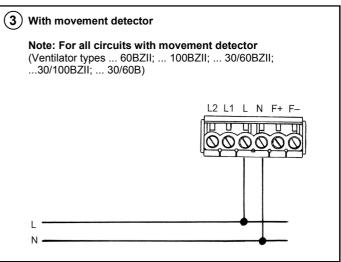
Electrical connection only by an electrician!

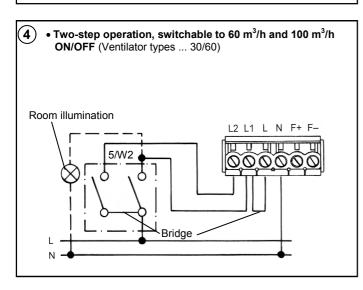
Additional installations and/ or electrical components are not permitted!

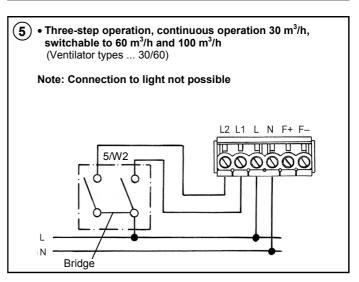
Wiring diagrams for further ventilator functions on request!

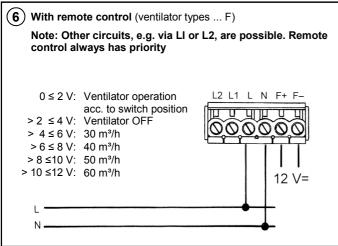


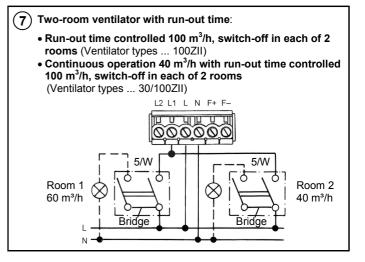




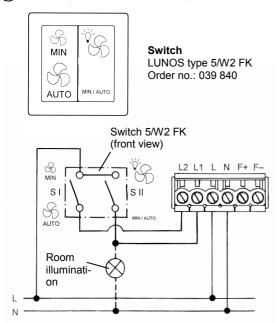








8 Humidity control (ventilator types...FK)



Caution! Ventilators with humidity control optimally adjust the exhaust air volume flow by means of the room air humidity <u>and</u> temperature

The fan has an automatic summer/winter switchover. The illuminated display lights up green with active humidity control and red with clogged filter. The fan runs from May to September in summer operation and from October to April in winter operation. Using an integrated supply-voltage-independent clock, the fan "knows" which month it is. During the cold season and the transitional period, an excess humidification of the apartment is prevented and thus building damage and mold avoided. The system is controlled automatically and, by means of continuous adaptation of the exhaust air volume flow to the room air humidity and room temperature, it guarantees optimum comfort in the room to be ventilated. In this way, only as much ventilation as necessary, but as little ventilation as possible, is ensured and thus energy is saved. The fan never switches off completely in order to ensure a minimum air change. During summer months, the increased exterior air humidity does not make an increased level of ventilation appropriate. The automatic summer/winter changeover is overridden by operation with the rocker switch SI of the switch 5/W2 FK.

Rocker switch function description S I:



LOWERING OPERATION:

Volume flow 30m³/h, independent of the room air humidity and room temperature; function active only in the "winter months" October to April



HUMIDITY CONTROL:

Volume flow 20/40/50/60 m³/h, humidity control active; function active only in the "winter months" October to April.

Rocker switch function description S II:



Required ventilation ON:

Volume flow 60 m³/h, possible coupling with the light level.

The ventilation with 60 m³/h, by means of a priority control circuit, overrides the operating modes "Lowering operation" and "Humidity control", as well as the automatic summer/winter changeover.

MIN / AUTO

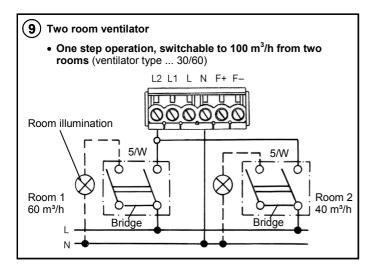
Required ventilation OFF:

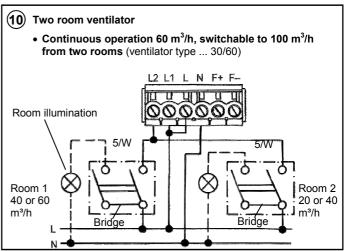
Fan runs in automatic summer/winter operation according to setting of the rocker switch S I.

Remote control: Ventilator type ... FK is remote controllable via the F+ and F- connections and with 0 to 12 V. $0 \le 2$ V: Ventilator operation according to the mains connection; $> 2 \le 4$ V: ventilator OFF; $> 4 \le 6$ V: 30 m³/h; $> 6 \le 8$ V: 40 m³/h; $> 8 \le 10$ V: 50 m³/h; $> 10 \le 12$ V: 60 m³/h

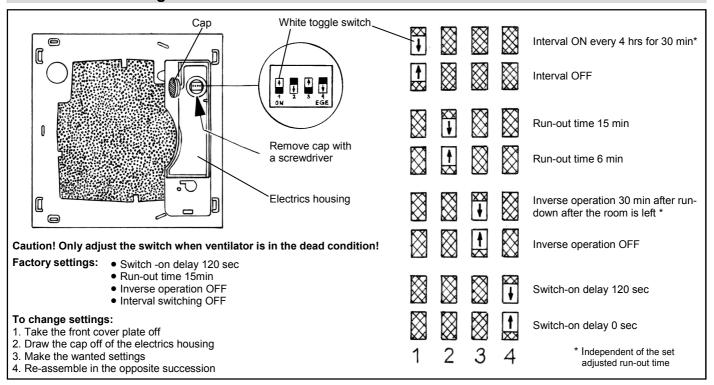
Temperature switch-off: The ventilator switches off when the room temperature drops below 15°C for more than 1 hour and so helps to avoid freezing of the heating. When 17°C is exceeded, it switches on again.

Note: LUNOS standardly supplies an adhesive label set for marking switch positions when series switches from an installation-switch manufacturer are used.

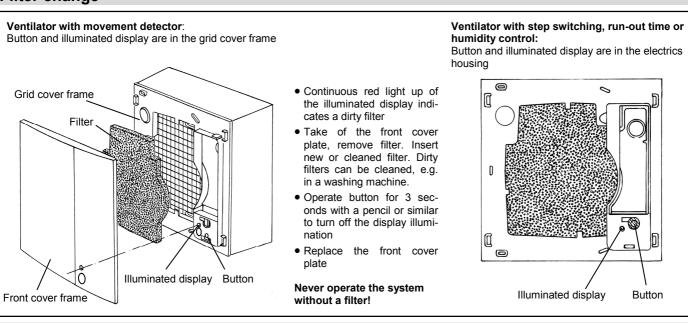




Run-out time setting: For ventilators with run-out time 5/ZII



Filter change



Cleaning

Wipe the front cover plate and grid cover frame with a dry, soft cloth when appropriate.



Filter change and cleaning are not to be carried out by children or people who cannot manage this with certainty because of their physical, sensorial or mental ability, or their inexperience or lack of appropriate knowledge

Accessory and replacement parts

Filter, pack of 3	2/FSI-R	Order no.	039 721
Silvento decor plate incl. filter display	2/S	Order no.	039 551
Silvento decor plate with movement detector	2/SB	Order no.	039 578
For external wall installation: Flexible pipe DN 80; length 40 cm, usage length 1.60 m Various external grilles on request		Order no.	038 970

